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Chevron Environmental Management Company

Annual 2013 Groundwater Monitoring Report

Former Chevron Bulk Plant 1001430
Former Texaco Bulk Plant 211815
Former Unocal Bulk Plant 306456
418 Illinois Street, 410 Driveway Street, and
328 ½ Illinois Street
Fairbanks, Alaska

ADEC File # 102.38.006
ADEC File # 102.38.005
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November 12, 2013

ARCADIS

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November 12, 2013

Table of Contents

Figures

Appendices

ARCADIS

Annual 2013 Groundwater Monitoring Report

Former Chevron Bulk Plant 1001430
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1. Introduction

On behalf of Chevron Environmental Management Company (Chevron), ARCADIS US, Inc. (ARCADIS), has prepared this report to document the annual 2013 groundwater sampling event results for former Chevron Bulk Plant 1001430, former Texaco Bulk Plant 211815, and former Unocal Bulk Plant 306456 located at 418 Illinois Street, 410 Driveway Street, and 328 ½ Illinois Street, respectively, in Fairbanks, Alaska. The site location map and aerial photograph are shown on **Figure 1** and **Figure 2**, respectively. This report summarizes the groundwater sampling event conducted by ARCADIS from July 30 through August 5, 2013, Work was conducted under the direction of a "qualified person" as defined in Alaska Department of Environmental Conservation (ADEC) documentation 18 Alaska Administrative Code (AAC) 75.990 (100), and 18 AAC 78.995 (118) (ADEC 2006a and 2006b).

2. Groundwater Monitoring

2.1. Groundwater Gauging Methods

The annual 2013 groundwater gauging event was conducted July 30-August 5, 2013. On July 30, 2013, depth-to-groundwater was measured in site monitoring wells. Site monitoring wells were gauged with an oil/water interface probe to determine depth-to-water and to ascertain if light-non-aqueous phase liquid (LNAPL) was present. Monitoring wells which are a part of the annual gauging program include:

Former Chevron 1001430:

TH-1, TH-2, TH-5, TH-7, TH-10, MW-23, and MW-25

Former Unocal 306456:

GEI-1 through GEI-10, MW-1 through MW-6, MW-14, MW-15, and K-5

Former Texaco 211815:

MW-1, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, AR-81, and AR-85

In order to prevent the possibility of cross-contamination, wells were gauged in the order of lowest to highest historical petroleum hydrocarbon concentrations in groundwater. In addition, non-disposable groundwater gauging equipment was

decontaminated prior to and after each use with a detergent solution and rinsed in potable water.

2.2. Groundwater Elevation and Flow Direction

Depth-to-groundwater was measured in seven monitoring wells from the former Chevron 1001430 site (Chevron), eleven monitoring wells from the former ranging from the former Texaco 211815 site (Texaco), and nineteen monitoring wells from the former Unocal 306456 site (Unocal). Depth-to-groundwater during the 2013 event ranged from 13.57 feet below top of casing (btoc) in monitoring well MW-1 (Texaco) to 19.95 feet btoc in monitoring well MW-6 (Unocal). Groundwater elevations ranged between 427.20 feet above mean sea level (msl) in monitoring well GEI- 3 (Unocal) and 429.11 feet above msl in monitoring well TH-2 (Chevron). Due to the presence of LNAPL, the groundwater elevation recorded in monitoring well MW-25 (Chevron) was corrected using the following formula:

Corrected Groundwater Elevation =
((Top of Casing – Depth-to-Water) + (LNAPL Thickness x Specific Gravity of LNAPL (0.82))

The groundwater elevation data obtained from the annual 2013 event were used to create a groundwater elevation contour map shown on **Figure 3**. These data indicate groundwater flow direction is to the west. The groundwater elevations and flow directions are consistent with historical groundwater monitoring events.

The following groundwater monitoring wells were unable to be gauged and/or sampled during the 2013 annual groundwater monitoring event:

Former Chevron 1001430:

Monitoring wells TH-13, TH-17, and TH-18 were not accessible due to permit stipulations with Alaska Railroad Company (ARRC). The access issues are currently being negotiated between ARRC and Chevron. Access to these wells will require a permit. Monitoring well MW-25 could not be sampled due to the presence of LNAPL.

Former Unocal 306456:

Monitoring wells GEI-11 and MW-13 were not accessible due to permit stipulations with ARRC. Monitoring wells GEI-12, K-5, K-7 could not be sampled do to obstructions.

Current and historical groundwater elevation data are included in **Tables 1, 2,** and **3**. The groundwater monitoring event field notes are presented in **Appendix A**. Historical groundwater elevation plotted against LNAPL thickness and analytical results are depicted in **Figures A** and **B** as hydrographs.

2.3. Groundwater Sampling Methods

Annual 2013 groundwater monitoring was conducted July 30-August 5, 2013. Groundwater samples were collected from monitoring wells TH-1, TH-2, TH-5, TH-7, TH-10, MW-23, and MW-25 located at Former Chevron 1001430; monitoring wells MW-1, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, AR-81 and AR-85 located at Former Texaco 211815; monitoring wells GEI-1 through GEI-10, MW-1 through MW-6, MW-14, and MW-15 at Former Unocal 306456, using no-purge sampling procedures in accordance with ADEC *Draft Field Sampling Guidance* (ADEC, 2010), ARCADIS *Bailer-Grab Groundwater Sampling* (ARCADIS, 2009), and ARCADIS *Groundwater sampling with HydraSleeves – Standard Operating Procedure* (ARCADIS 2011). Disposable Teflon® bailers and HydraSleeves™ were used to collect the samples. HydraSleeves™ were lowered into the water column and were allowed to sit in the monitoring wells for at least two hours prior to sampling. After the necessary sample bottles were filled using the HydraSleeves™ for analysis of gasoline range organics (GRO) and benzene toluene, ethylbenzene, and total xylenes (BTEX), Teflon® disposable bailers (bailers) were used to fill the remaining sample bottles for analysis of diesel range organics (DRO). Bailers were lowered slowly into the water column to mitigate potential volatilization.

Groundwater samples were labeled, stored in a cooler packed with ice and submitted to Pace Analytical Services (Pace) in Minneapolis, Minnesota under proper chain-of-custody procedures. Samples were submitted for one or more of the following analyses:

Former Chevron 1001430:

- Gasoline range organics (GRO) by Alaska Method AK101
- Diesel range organics (DRO) by Alaska Method AK102

- Diesel range organics with Silica Gel Cleanup (DRO SGC) by Alaska Method AK102
- Residual range organics (RRO) by Alaska Method AK103
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B

Former Texaco 211815:

- GRO by Alaska Method AK101
- DRO by Alaska Method AK102
- DRO SGC by Alaska Method AK102
- RRO by Alaska Method AK103
- BTEX and methyl-tert butyl ether (MTBE) by EPA method 8021B
- Volatile Organic Compounds (VOCs) by EPA Method 8260B
- Ethylene dibromide (EDB) by EPA Method 8011

Former Unocal 306456:

- GRO by Alaska Method AK101
- DRO by Alaska Method AK102
- DRO SGC by Alaska Method AK102
- RRO by Alaska Method AK103
- BTEX and MTBE by EPA method 8021B
- Select VOCs by EPA Method 8260B
- Ethylene dibromide (EDB) by EPA Method 8011

Current and historical analytical data for GRO, DRO, RRO, and BTEX and historical analytical data for dissolved lead are included in **Tables 4**, **5**, and **6**. Current and historical VOC analytical data are presented in **Table 7**. The groundwater monitoring event field notes are presented in **Appendix A** and the laboratory reports are included as **Appendix B**.

2.4 Groundwater Analytical Results

2.4.1 Former Chevron 1001430

A concentration of GRO greater than the ADEC Groundwater Cleanup Level (GCL) (2,200 micrograms per liter [µg/L]) was detected in the sample from monitoring well TH-2 at 40,700 µg/L.

Concentrations of DRO greater than the ADEC GCL (1,500 µg/L) were detected in monitoring well samples TH-1, TH-2, and TH-5 with concentrations ranging between 2,900 µg/L (TH-5) and 63,400 µg/L (TH-1).

DRO concentrations greater than the ADEC GCL (1,500 µg/L) were also detected in monitoring well samples with SGC. Samples from TH-1, TH-2, and TH-5 indicate DRO concentrations ranging between 2,400 µg/L (TH-2) to 31,900 µg/L (TH-1).

A concentration of RRO greater than the ADEC GCL (1,100 µg/L) was detected in monitoring well samples TH-1 and TH-2 at 4,400 µg/L and 1,600 µg/L, respectively.

A concentrations of benzene greater than the ADEC GCL (5 µg/L) was detected in the monitoring well sample TH-2 at 477 µg/L.

Concentrations of toluene greater than the ADEC GCL (1,000 µg/L) were detected in the sample collected from monitoring well TH-2 at 2,110 µg/L.

Concentrations of ethylbenzene greater than the ADEC GCL (700 µg/L) were detected in the sample collected from monitoring well TH-2 at 1,050 µg/L.

Groundwater analytical results for Former Chevron 1001430 are presented in **Table 4** and are shown on **Figure 4**.

2.4.2 Former Texaco 211815

Concentrations of GRO greater than the ADEC GCL (2,200 µg/L) were detected in monitoring well samples MW-4, MW-5, and MW-8 ranging between 1,310 µg/L (MW-5) and 67,900 µg/L (MW-4).

Concentrations of DRO greater than the ADEC GCL (1,500 µg/L) were detected in monitoring well samples MW-3, MW-4, MW-5, and MW-8 ranging between 2,000 µg/L (MW-8) and 37,400 µg/L (MW-4).

Concentrations of DRO greater than the ADEC GCL (1,500 µg/L) were also detected in a sample with SGC. The sample from monitoring well MW-4 had a concentration of 27,100 µg/L.

Concentrations of RRO greater than the ADEC GCL (1,100 µg/L) were detected in monitoring well sample MW-4 at 1,400 µg/L.

Concentrations of benzene greater than the ADEC GCL (5 µg/L) were detected in monitoring well samples MW-3, MW-4, MW-5, MW-8, and MW-9 ranging between 37.9 (MW-9) and 3,120 µg/L (MW-4).

Concentrations of toluene greater than the ADEC GCL (1,000 µg/L) were detected in monitoring well sample MW-4 at 7,190 µg/L.

Concentrations of ethylbenzene greater than the ADEC GCL (700 µg/L) were detected in monitoring well sample MW-4 at 1,250 µg/L.

Concentrations of 1,2-Dichloroethane were not detected above the ADEC GCL (5 µg/L). The laboratory method detection limit (MDL) exceeded the GCL in monitoring well sample MW-4 at a concentration of 50 µg/L.

The MDL exceeded the GCL for Trichloroethene (5 µg/L) in monitoring well sample MW-4 at a concentration of 20 µg/L.

The MDL exceeded the GCL for Tetrachloroethene (5 µg/L) in monitoring well sample MW-4 at a concentration of 50 µg/L.

Analytical results for former Texaco 211815 are presented in **Table 5** and **Table 7** and are shown on **Figure 4** and **Figure 5**.

2.4.3 Former Unocal 306456

Groundwater samples collected during the annual 2013 monitoring event contained concentrations of GRO greater than the ADEC GCL (2,200 µg/L) in monitoring well samples GEI-1, GEI-2, GEI-3, GEI-7, GEI-8, MW-3, MW-5, and MW-15 ranging between 2,110 µg/L (MW-3) and 230,000 g/L (GEI-2).

Concentrations of DRO greater than the ADEC GCL (1,500 µg/L) were detected in monitoring well samples GEI-1, GEI-2, GEI-3, GEI-4, GEI-6, GEI-7, GEI-8, GEI-9, GEI-10, MW-3, MW-5, and MW-15 ranging between 3,500 µg/L (MW-3) and 1,740,000 µg/L (GEI-8).

Concentrations of DRO greater than the ADEC GCL were also detected in samples with SGC. The samples from monitoring wells GEI-1, GEI-2, GEI-3, GEI-4, GEI-7, GEI-8, GEI-9, GEI-10, MW-3, MW-5, and MW-15 ranged between 1,300 µg/L (MW-3) and 1,330,000 µg/L (GEI-8).

Concentrations of RRO greater than the ADEC GCL (1,100 µg/L) were detected in monitoring well samples GEI-1, GEI-2, GEI-3, GEI-6, GEI-7, GEI-8, GEI-9, MW-5, ranging between 1,600 µg/L (MW-5) and 5,200 µg/L (GEI-3). The laboratory MDL exceeded the GCL in monitoring well samples MW-3 and MW-15 at a concentration of 1,200 µg/L.

Concentrations of benzene greater than the ADEC GCL (5 µg/L) were detected in monitoring well samples GEI-1, GEI-2, GEI-4, GEI-7, MW-3, MW-5, MW-14 and MW-15 ranging between 7.7 µg/L (GEI-4) and 3,330 µg/L (GEI-2).

Concentrations of 1,2-Dibromoethane greater than the ADEC GCL (0.05 µg/L) were detected in monitoring well samples GEI-2 (89.9 µg/L) and GEI-7 (2.9 µg/L)

The MDL exceeded the GCL for Trichloroethene (5 µg/L) in monitoring well sample GEI-2 at a concentration of 40 µg/L.

Concentrations of Tetrachloroethene greater than the ADEC GCL (5 µg/L) were detected in monitoring well sample GEI-7 (18.8 µg/L). The MDL exceeded the GCL for Trichloroethene in monitoring well sample GEI-2 at a concentration of 100 µg/L.

Analytical results for the Former Unocal 306456 are presented in **Tables 6** and **Table 7** and are shown on **Figure 4** and **Figure 5**.

3. Laboratory Data Quality Assurance Summary

As required by ADEC (Technical Memorandum, dated March, 2009), ARCADIS completed a laboratory data review checklist for each of the Pace reports during the annual 2013 event. The laboratory reports are included as **Appendix B** and data review checklists are included as **Appendix C**. The following quality assurance (QA) summary describes six parameters, related to the quality and usability of the data presented in this report.

3.1. Precision

The data meets precision objectives for laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) relative percent differences (RPDs).

3.2. Accuracy

The data meets accuracy objectives as indicated by the laboratory quality control samples, which were within method/laboratory limits. Analytes were not detected in the trip blanks submitted with the groundwater samples. The LCS recoveries were within respective limits.

3.3. Representativeness

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

3.4. Comparability

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

3.5. Completeness

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

3.6. Sensitivity

The sensitivity of the analyses was adequate for the samples as the detection limits were less than the ADEC GCLs for compounds which were not detected with the following exceptions:

The PQL for RRO exceeded the applicable GCL in the analysis of MW-3 (Unocal) and MW-15 (Unocal).

4. Conclusions and Recommendations

The analytical results from annual 2013 groundwater monitoring event are consistent with historical trends for this site. Laboratory analysis of the annual 2013 event indicate groundwater samples collected from monitoring wells TH-1, TH-2, and TH-5 from former Chevron bulk plant 1001430 contained concentrations greater than their respective ADEC GCLs for one or more of the following analytes: GRO, DRO, RRO, benzene, toluene, and ethylbenzene. Groundwater samples collected from monitoring wells MW-3, MW-4, MW-5, and MW-8 from former Texaco bulk plant 211815

contained concentrations greater than their respective ADEC GCLs for one or more of the following analytes: GRO, DRO, RRO, benzene, toluene, ethylbenzene, and total xylenes. Groundwater samples collected from monitoring wells GEI-1 through GEI-4, GEI-6 through GEI-10, MW-3, MW-5, and MW-15 from former Unocal bulk plant 306456 contained concentrations greater than their respective ADEC GCLs for one or more of the following analytes: GRO, DRO, RRO, benzene, toluene, ethylbenzene, and total xylenes.

The groundwater elevations, flow direction, and gradient are consistent with previous monitoring events. The groundwater generally flows towards the west across the site.

ARCADIS will continue to conduct annual sampling at the site. The 2014 annual groundwater sampling event will be conducted in July/August 2014. If you have any questions or would like to discuss this further, please contact Greg Montgomery at 206.726.4742.

5. References

ADEC, 2006a. *Oil and Other Hazardous Substances Pollutions Control 18.ACC 75.990 (100)* December 30, 2006.

ADEC Technical Memorandum, March, 2009. *Environmental Laboratory Data and Quality Assurance Requirements*. ADEC, Division of Spill Prevention and Response Contaminated Sites Program.

ADEC. 2006b. *Underground Storage Tanks 18.AAC 78.995 (118)* October, 2006. Alaska Department of Environmental Conservation.

ARCADIS. *Bailer-Grab Groundwater Sampling*. March 10. 2009.

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ADEC, May, 2010. *Draft Field Sampling Guidance*. Division of Spill Prevention and Response Contaminated Sites Program.

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Tables

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-1	06/24/02	440.41	17.80	--	422.61
	09/25/02		15.46	--	424.95
	04/29/03		17.95	--	422.46
	09/03/03		14.99	--	425.42
	03/10/04		18.06	--	422.35
	09/15/04		17.67	--	422.74
	04/19/05		18.55	--	421.86
	09/08/05		16.77	--	423.64
	04/20/06		18.58	--	421.83
	09/14/06		16.46	--	423.95
	02/06/07		NM	NA	NA
	03/14/07		18.57	--	421.84
	09/12/07	445.69	16.79	--	428.90
	10/15/07		NM	NA	NA
	01/29/08		NM	NA	NA
	02/13/08		NM	NA	NA
	04/04/08		18.78	--	426.91
	05/23/08		NM	NA	NA
	06/25/08		NM	NA	NA
	07/14/08		NM	NA	NA
	08/06/08		NM	NA	NA
	09/16/08		15.92	--	429.77
	10/27/08		NM	NA	NA
	11/24/08		NM	NA	NA
	12/19/08		NM	NA	NA
	01/30/09		NM	NA	NA
	02/19/09		NM	NA	NA
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		17.60	--	428.09
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/19/10		NM	NA	NA
	08/16/10		NM	NA	NA
	09/22/10	445.67	NM	NA	NA
	10/27/10		NM	NA	NA

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Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-1 Cont.	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		15.91	NA	429.76
	07/23/12		16.85	NA	428.82
	07/30/13		**17.58**	**NA**	**428.09**
TH-2	06/24/02	438.68	Well not sampled - frozen shut		
	09/25/02		13.77	--	424.91
	04/29/03		16.24	present	422.44
	09/03/03		13.22	--	425.46
	03/10/04		16.31	0.02	422.39
	09/15/04		15.92	0.04	422.79
	04/19/05		16.87	0.10	421.89
	09/08/05		15.03	0.03	423.67
	04/20/06		16.79	0.11	421.98
	09/14/06		14.70	--	423.98
	02/06/07		Well not sampled - monument cover frozen shut		
	03/14/07		Well not sampled - monument cover frozen shut		
	04/30/07		16.25	--	422.43
	05/18/07		16.00	--	422.68
	09/13/07	443.88	14.99	--	428.89
	10/15/07		15.51	--	428.37
	01/29/08		16.58	0.03	427.32
	02/13/08		16.68	0.04	427.23
	04/04/08		16.92	--	426.96
	05/23/08		Absorbent sock frozen in well		
	06/25/08		15.57	--	428.31
	07/14/08		16.20	--	427.68
	08/06/08		12.86	--	431.02
	09/16/08		14.12	0.01	429.77
	10/27/08		15.38	--	428.50
	11/24/08		15.43	--	428.45
	12/19/08		15.91	0.06	428.02
	01/30/09		16.52	0.09	427.43
	02/19/09		16.73	0.09	427.22
	03/25/09		16.91	0.10	427.05
	04/20/09		17.05	0.14	426.94
	05/26/09		NM	NA	NA
	06/24/09		15.65	0.06	428.28
	07/27/09		15.85	0.11	428.12
	08/26/09		15.69	--	428.19
	09/17/09		14.02	--	429.86
	10/22/09		Obstructed		
	11/03/09		Obstructed		
	12/14/09		Obstructed		
	01/12/10		NM	NA	NA

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-2 Cont.	02/09/10		16.93	0.12	427.05
	03/18/10		17.19	0.15	426.81
	04/21/10		17.22	--	426.66
	05/26/10		16.21	--	
	06/15/10		15.53	--	
	07/19/10		15.30	--	428.58
	08/16/10		15.64	0.04	428.27
	09/22/10	443.75	15.55	--	428.20
	10/27/10		16.50	0.20	427.41
	11/15/10		16.22	0.02	427.55
	12/13/10		15.54	0.13	428.31
	01/04/11		16.72	0.02	427.05
	02/07/11		17.09	0.14	426.77
	03/22/11		17.06	0.13	426.79
	04/14/11		17.08	0.9	427.39
	09/21/11		13.95	--	429.80
	07/23/12		14.91	--	428.84
	07/30/13		**14.64**	**--**	**429.11**
TH-4	06/24/02	436.92	13.67	--	423.25
	09/25/02		12.20	--	424.72
	04/29/03		14.70	--	422.22
	09/03/03		11.67	--	425.25
	03/10/04		14.86	--	422.06
	Well decommissioned for railroad construction on 8/19/2004				
TH-5	06/24/02	437.62	13.64	--	423.98
	09/25/02		12.79	present	424.83
	04/29/03		15.14	present	422.48
	09/03/03		12.17	present	425.45
	03/10/04		NM	0.03	NM
	09/15/04		14.84	--	422.78
	04/19/05		15.72	--	421.9
	09/08/05		13.95	0.02	423.69
	04/20/06		15.74	--	421.88
	09/14/06		13.63	--	423.99
	12/01/06		14.89	--	422.73
	12/22/06		15.12	--	422.5
	02/06/07		15.41	--	422.21
	03/14/07		15.68	--	421.94
	04/30/07		15.16	--	422.46
	05/18/07		14.95	--	422.67
	09/13/07	442.80	13.91	--	428.89
	10/15/07		14.41	--	428.39
	11/19/07		14.45	--	428.35
	01/29/08		16.49	--	426.31
	02/13/08		15.58	--	427.22
	04/04/08		15.90	--	426.90
	05/23/08		Absorbent sock frozen in well		

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-5 Cont.	06/25/08		Absorbent sock frozen in well		
	07/14/08		14.69	--	428.11
	08/06/08		11.82	--	430.98
	09/16/08		13.06	0.01	429.75
	10/27/08		14.28	--	428.52
	11/24/08		14.35	--	428.45
	12/19/08		14.78	--	428.02
	01/30/09		15.35	--	427.45
	02/19/09		15.57	--	427.23
	03/25/09		15.79	--	427.01
	04/20/09		Ice encountered at a depth of 1.65' BTOC		
	05/26/09		NM	NA	NA
	06/24/09		14.50	--	428.30
	07/27/09		14.71	--	428.09
	08/26/09		16.81	--	425.99
	09/17/09		13.94	--	428.86
	10/22/09		14.70	--	428.10
	11/03/09		14.91	--	427.89
	12/14/09		15.19		427.61
	01/12/10		NM	NA	NA
	02/09/10		15.75	--	427.05
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10			Well Frozen	
	06/15/10		14.50	--	428.30
	07/19/10		14.76	--	428.04
	08/16/10		14.81	--	427.99
	09/22/10	442.75	14.56	--	428.19
	10/27/10		15.32	--	427.43
	11/15/10		15.21	--	427.54
	12/13/10		Unable to open/Frozen		
	01/04/11		15.65	--	427.10
	02/07/11		Obstructed/Unable to access		
	03/22/11		15.98	--	426.77
	04/14/11		Obstructed/Unable to access		
	09/21/11		12.98	--	429.77
	07/23/12		13.91	--	428.84
	07/30/13		**14.62**	**--**	**428.13**
TH-7	06/25/02	440.18	16.31	--	423.87
	09/25/02		15.31	--	424.87
	04/29/03		17.79	--	422.39
	09/03/03		14.81	--	425.37
	03/10/04		17.92	--	422.26
	09/15/04		17.47	--	422.71
	04/19/05		18.37	--	421.81
	09/08/05		16.55	--	423.63
	04/20/06		18.35	--	421.83

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-7 Cont.	09/14/06		16.23	--	423.95
	02/06/07				
	03/14/07		18.33	--	421.85
	04/30/07		NM	NA	NA
	05/18/07		NM	NA	NA
	09/12/07	445.34	16.53	--	428.81
	10/05/07		NM	NA	NA
	01/29/08		NM	NA	NA
	02/13/08		NM	NA	NA
	04/04/08		18.57	--	426.77
	05/23/08		NM	NA	NA
	06/25/08		NM	NA	NA
	07/14/08		NM	NA	NA
	08/06/08		NM	NA	NA
	09/16/08		15.66	--	429.68
	10/27/08		NM	NA	NA
	11/24/08		NM	NA	NA
	12/19/08		NM	NA	NA
	01/30/09		NM	NA	NA
	02/19/09		NM	NA	NA
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		17.38	--	427.96
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		16.93	0.12	428.51
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	07/19/10		17.45	--	427.89
	08/16/10		NM	NA	NA
	09/22/10	445.30	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		15.63	--	429.67
	07/23/12		16.56	--	428.74
	07/30/13		**17.26**	**--**	**428.04**

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-10	06/24/02	438.62	14.58	--	424.04
	09/25/02		13.62	--	425.00
	04/29/03		16.03	--	422.59
	09/03/03		13.13	--	425.49
	03/10/04		16.18	--	422.44
	09/15/04		15.80	--	422.82
	04/19/05		16.65	--	421.97
	09/08/05		14.88	--	423.74
	04/20/06		16.66	--	421.96
	09/13/06		14.53	--	424.09
	02/06/07		NM	NA	NA
	03/14/07		16.61	--	422.01
	04/30/07		NM	NA	NA
	05/18/07		NM	NA	NA
	09/12/07	443.81	14.84	--	428.97
	10/15/07		NM	NA	NA
	01/29/08		NM	NA	NA
	02/13/08		NM	NA	NA
	04/04/08		16.82	--	426.99
	09/16/08		13.97	--	429.84
	07/27/09		15.61	--	428.20
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	07/19/10		16.65	--	427.16
	08/16/10		NM	NA	NA
	09/22/10	443.75	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		13.89	--	429.86
	07/23/12		14.84	--	428.91
	07/30/13		**15.55**	**--**	**428.20**
TH-13	06/24/02	436.74	13.09	--	423.65
	09/25/02		12.02	--	424.72
	04/29/03		14.50	--	422.24
	09/03/03		11.45	--	425.29
	03/10/04		14.66	--	422.08
	09/23/04		NM	NA	N/A
	04/19/05		15.10	--	421.64

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-13 Cont.	09/08/05		13.37	--	423.37
	04/20/06		Well not sampled - buried under ice, monument filled		
	09/14/06		12.99	--	423.75
	02/06/07				
	03/14/07		15.09	--	421.65
	04/30/07		NM	NA	N/A
	05/18/07		NM	NA	N/A
	09/13/07	441.94	13.30	--	428.64
	10/15/07		NM	NA	N/A
	01/29/08		NM	NA	N/A
	02/13/08		NM	NA	N/A
	04/04/08		15.30	--	426.64
	05/23/08		NM	NA	N/A
	06/25/08		NM	NA	N/A
	07/14/08		NM	NA	N/A
	08/06/08		NM	NA	N/A
	09/16/08		12.43	--	429.51
	10/27/08		NM	NA	N/A
	11/24/08		NM	NA	N/A
	12/19/08		NM	NA	N/A
	01/30/09		NM	NA	N/A
	02/19/09		NM	NA	N/A
	03/25/09		NM	NA	N/A
	04/20/09		NM	NA	N/A
	05/26/09		NM	NA	N/A
	06/24/09		NM	NA	N/A
	07/27/09		No current access to well - under permit stipulation		
	08/26/09		No current access to well - under permit stipulation		
	09/17/09		No current access to well - under permit stipulation		
	10/22/09		No current access to well - under permit stipulation		
	11/03/09		No current access to well - under permit stipulation		
	12/14/09		No current access to well - under permit stipulation		
	02/09/10		No current access to well - under permit stipulation		
	03/18/10		No current access to well - under permit stipulation		
	04/21/10		No current access to well - under permit stipulation		
	07/19/10		No current access to well - under permit stipulation		
	08/16/10		No current access to well - under permit stipulation		
	09/22/10		No current access to well - under permit stipulation		
	10/27/10		No current access to well - under permit stipulation		
	11/15/10		No current access to well - under permit stipulation		
	12/13/10		No current access to well - under permit stipulation		
	01/04/11		No current access to well - under permit stipulation		
	02/07/11		No current access to well - under permit stipulation		
	09/21/11		No current access to well - under permit stipulation		
	07/23/12		No current access to well - under permit stipulation		
	07/30/13		**No current access to well - under permit stipulation**		

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-17	06/24/02	435.38	11.60	--	423.78
	09/25/02		10.59	--	424.79
	04/29/03		11.20	--	424.18
	09/03/03		10.08	--	425.3
	03/10/04		13.20	--	422.18
	09/15/04		12.77	--	422.61
	04/19/05		Well not sampled - buried under ice, monument filled		
	09/08/05		11.87	--	423.51
	04/20/06		Well not sampled - buried under ice, monument filled		
	09/14/06		11.93	--	423.45
	02/06/07		NM	NA	NA
	03/14/07		13.65	--	421.73
	04/30/07		NM	NA	NA
	05/18/07		NM	NA	NA
	09/13/07	440.57	11.77	--	428.80
	10/15/07		NM	NA	NA
	01/29/08		NM	NA	NA
	02/13/08		NM	NA	NA
	04/04/08		Well not sampled - monument underwater		
	05/23/08		NM	NA	NA
	06/25/08		NM	NA	NA
	07/14/08		NM	NA	NA
	08/06/08		NM	NA	NA
	09/16/08		10.96	--	429.61
	07/27/09		No current access to well - under permit stipulation		
	08/26/09		No current access to well - under permit stipulation		
	09/17/09		No current access to well - under permit stipulation		
	10/22/09		No current access to well - under permit stipulation		
	11/03/09		No current access to well - under permit stipulation		
	12/22/09		No current access to well - under permit stipulation		
	02/09/10		No current access to well - under permit stipulation		
	03/18/10		No current access to well - under permit stipulation		
	04/21/10		No current access to well - under permit stipulation		
	07/19/10		No current access to well - under permit stipulation		
	08/16/10		No current access to well - under permit stipulation		
	09/22/10		No current access to well - under permit stipulation		
	10/27/10		No current access to well - under permit stipulation		
	11/15/10		No current access to well - under permit stipulation		
	12/13/10		No current access to well - under permit stipulation		
	01/04/11		No current access to well - under permit stipulation		
	02/07/11		No current access to well - under permit stipulation		
	09/21/11		No current access to well - under permit stipulation		
	07/23/12		No current access to well - under permit stipulation		
	07/30/13		**No current access to well - under permit stipulation**		

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-18	06/24/02	435.77	Well not sampled - frozen shut		
	09/25/02		11.01	--	424.76
	04/29/03		Well not sampled - frozen shut		
	09/03/03		10.48	--	425.29
	03/10/04		13.61	--	422.16
	09/23/04		N/A	--	N/A
	04/19/05		Well not sampled - buried under ice, monument filled		
	09/08/05		12.28	--	423.49
	04/20/06		Well not sampled - buried under ice, monument filled		
	09/14/06		11.53	--	424.24
	02/06/07		NM	NA	NA
	03/15/07		14.05	--	421.72
	04/30/07		NM	NA	NA
	05/18/07		NM	NA	NA
	09/18/07	440.95	12.40	--	428.55
	10/15/07		NM	NA	NA
	02/13/08		NM	NA	NA
	04/04/08		Well not sampled - monument underwater		
	05/23/08		NM	NA	NA
	06/25/08		NM	NA	NA
	07/14/08		NM	NA	NA
	08/06/08		NM	NA	NA
	09/16/08		11.37	--	429.58
	10/27/08		NM	NA	NA
	10/27/08		NM	NA	NA
	11/24/08		NM	NA	NA
	12/19/08		NM	NA	NA
	01/30/09		NM	NA	NA
	02/19/09		NM	NA	NA
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		No current access to well - under permit stipulation		
	08/26/09		No current access to well - under permit stipulation		
	09/17/09		No current access to well - under permit stipulation		
	10/22/09		No current access to well - under permit stipulation		
	11/03/09		No current access to well - under permit stipulation		
	12/22/09		No current access to well - under permit stipulation		
	02/09/10		No current access to well - under permit stipulation		
	03/18/10		No current access to well - under permit stipulation		
	04/21/10		No current access to well - under permit stipulation		
	07/19/10		No current access to well - under permit stipulation		
	08/16/10		No current access to well - under permit stipulation		
	09/22/10		No current access to well - under permit stipulation		
	10/27/10		No current access to well - under permit stipulation		
	11/15/10		No current access to well - under permit stipulation		

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
TH-18 Cont.	12/13/10	No current access to well - under permit stipulation			
	01/04/11	No current access to well - under permit stipulation			
	02/07/11	No current access to well - under permit stipulation			
	09/21/11	No current access to well - under permit stipulation			
	07/23/12	No current access to well - under permit stipulation			
	07/30/13	**No current access to well - under permit stipulation**			
MW-23	06/25/02	436.67	14.32	--	422.35
	09/25/02	436.67	11.80	--	422.29
	04/29/03	436.67	14.21	--	422.46
	09/03/03	436.67	11.30	--	425.37
	03/10/04	436.67	14.38	--	422.29
	09/15/04	436.67	13.97	--	422.70
	04/19/05	436.67	14.86	--	421.81
	09/08/05	436.67	13.06	--	423.61
	04/20/06	436.67	14.88	--	421.79
	09/13/06	436.67	12.73	--	423.94
	02/06/07	436.67	NM	NA	NA
	03/14/07	Well not sampled - under a large pile of lumber			
	04/30/07		NM	NA	NA
	05/18/07		NM	NA	NA
	09/12/07	441.84	13.03	--	428.81
	10/15/07		NM	NA	NA
	01/29/08		NM	NA	NA
	02/13/08		NM	NA	NA
	04/04/08		15.03	--	426.81
	05/23/08		NM	NA	NA
	06/25/08		NM	NA	NA
	07/14/08		NM	NA	NA
	08/06/08		NM	NA	NA
	09/16/08	PVC cap stuck/frozen			
	10/27/08		NM	NA	NA
	11/24/08		NM	NA	NA
	12/19/08		NM	NA	NA
	01/30/09		NM	NA	NA
	02/19/09		NM	NA	NA
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		NM	NA	NA
	08/26/09		17.51	--	424.33
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
MW-23 Cont.	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	07/19/10		17.3	--	424.54
	08/16/10		NM	NA	NA
	09/22/10	445.32	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		15.67	--	429.65
	07/23/12		16.61	--	428.71
	07/30/13		**17.33**	**--**	**427.99**
MW-25	06/25/02	440.77	16.89	present	423.88
	09/25/02		15.94	present	424.83
	04/29/03		18.40	present	422.37
	09/03/03		15.40	present	425.37
	03/10/04		18.46	0.05	422.35
	09/15/04		18.03	0.15	422.86
	04/19/05		19.05	0.16	421.85
	09/08/05		17.23	0.13	423.64
	04/20/06		18.93	0.15	421.96
	09/13/06		17.16	0.13	423.71
	12/01/06		18.16	--	422.61
	12/22/06		18.34	--	422.43
	02/06/07		18.63	0.03	422.16
	03/14/07		18.88	0.01	421.90
	04/30/07		18.40	--	422.37
	05/18/07		18.15	--	422.62
	09/13/07	445.85	17.08	--	428.77
	10/15/07		17.60	--	428.25
	01/29/08		17.82	--	428.03
	02/13/08		15.58	--	430.27
	04/04/08		19.08	--	426.77
	05/23/08		17.82	--	428.03
	06/25/08		17.66	--	428.19
	07/14/08		17.64	--	428.21
	08/06/08		15.00	--	430.85
	09/16/08		14.22	--	431.63
	10/27/08		17.47	--	428.38
	11/24/08		17.56	--	428.29
	12/19/08		17.99	--	427.86
	01/30/09		18.56	sheen	427.29
	02/19/09		18.82	0.03	427.05
	03/25/09		19.01	0.02	426.86
	04/20/09		19.06	0.05	426.83

Table 1
Groundwater Elevation Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl)	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl)[1]
MW-25 Cont.	06/24/09		17.70	0.02	428.17
	07/27/09		19.91	0.04	425.97
	08/26/09		17.79	0.01	428.07
	09/17/09		17.20	0.02	428.67
	10/22/09		17.93	0.04	427.95
	11/03/09		18.13	0.05	427.76
	12/14/09		18.42	0.02	427.45
	01/01/00				
	02/09/10		19.04	0.08	426.87
	04/21/10		19.56	--	426.29
	05/26/10		18.90	--	426.95
	06/15/10		17.68	--	428.17
	07/19/10		19.74	--	426.11
	08/16/10		17.9	--	427.95
	09/22/10	445.90	17.75	--	428.15
	10/27/10		18.51	0.01	427.40
	11/15/10		18.57	0.10	427.41
	12/13/10			Unable to open/Frozen	
	01/04/11		18.99	0.19	427.06
	02/07/11		19.34	0.19	426.71
	03/22/11		19.34	0.21	426.73
	04/14/11		19.38	0.22	426.70
	09/21/11		16.15	Trace	429.75
	07/23/12		17.15	0.07	428.75
	07/30/13		**17.90**	**0.10**	**428.08**

Notes:
btoc = below top of casing
feet msl = feet above mean sea level
LNAPL = Light non-aqueous phase liquid
Bold Type = Results of events covered in this report

[1]Where LNAPL was present, groundwater elevations were adjusted using an average specific gravity of 0.80.
NA = Not Available
NM = Not Measured
-- = Not encountered

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
AR-81	06/25/02	436.99	13.28	--	423.71
	09/24/02		12.34	--	424.65
	04/29/03		14.82	--	422.17
	09/03/03		11.83	--	425.16
	03/10/04		Well Frozen		
	09/16/04		14.53	--	422.46
	04/19/05		15.43	--	421.56
	09/07/05		13.60	--	423.39
	04/20/06		15.46	--	421.53
	09/12/06		13.30	--	423.69
	03/15/07		15.40	--	421.59
	09/10/07	444.44	13.61	--	430.83
	04/04/08		15.62	--	428.82
	09/16/08		12.73	--	431.71
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		14.48	--	429.96
	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		14.54	--	429.90
	08/16/10		NM	NA	NA
	09/22/10	442.16	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.64	--	429.52
	07/23/12		13.63	--	428.53
	07/30/13		**14.36**	--	**427.80**
AR-82	06/25/02	437.47	13.64	--	423.83
	09/24/02		12.69	--	424.78
	04/29/03		15.13	--	422.34
	09/03/03		12.17	--	425.30
		Well Removed from Sampling Program in September 2003			

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
AR-85	06/25/02	437.23	13.45	--	423.78
	09/24/02		12.49	--	424.74
	04/29/03		15.00	--	422.23
	09/03/03		12.00	--	425.23
	03/10/04		Well Beneath Snow bank		
	09/16/04		14.68	--	422.55
	04/19/05		Well buried and surrounded by equipment		
	09/07/05		13.79	--	423.44
	04/20/06		15.61	--	421.62
	09/12/06		13.45	--	423.78
	03/14/07		Well buried under snow bank		
	09/10/07	444.65	13.74	--	430.91
	04/04/08		15.79	--	428.86
	09/16/08		12.89	--	431.76
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		14.58	--	430.07
	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		15.54	--	429.11
	08/16/10		NM	NA	NA
	09/22/10	442.32	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.82	--	429.50
	07/23/12		13.79	--	428.53
	07/30/13		**14.50**	--	**427.82**
MW-1	10/23/03	436.36	12.28	--	424.08
	03/10/04		14.14	--	422.22
	09/16/04		13.72	--	422.64
	04/19/05		Well Beneath Snow bank		
	09/07/05		12.77	--	423.59
	04/20/06		Well buried and surrounded by equipment		

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-1 Cont.	09/12/06		12.47	--	423.89
	03/15/07		14.57	--	421.79
	09/10/07	441.46	12.76	--	428.70
	04/04/08		Well not sampled - monument underwater		
	09/16/08		11.91	--	429.55
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		Well buried by gravel regrade		
	08/01/09		NM	NA	NA
	09/17/09		Well buried by gravel regrade		
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/20		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		Unable to Locate		
	08/16/10		NM	NA	NA
	09/22/10	441.47	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		11.84	--	429.63
	07/23/12		12.79	--	428.68
	07/30/13		**13.57**	--	**427.90**
MW-2	10/23/03	437.06	13.35	--	423.71
	03/10/04		14.89	0.04	422.20
	09/16/04		14.51	0.03	422.57
	04/19/05		15.47	0.10	421.67
	09/07/05		13.58	0.01	423.49
	04/20/06		well not sampled - covered with snow and gravel		
	08/11/06		13.85	0.01	423.22
	09/12/06		13.26	--	423.80
	12/01/06		14.56	--	422.50
	12/22/06		14.80	--	422.26
	02/06/07		15.08	--	421.98
	03/16/07		15.31	--	421.75
	04/30/07		Well not sampled due to ice in well		
	05/18/07		Well not sampled due to ice in well		
	09/10/07	442.23	13.56	--	428.67

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-2 Cont.	10/15/07		14.04	--	428.19
	11/19/07		14.10	--	428.13
	01/29/08		15.18	--	427.05
	02/13/08		15.24	--	426.99
	04/04/08		Well not sampled - absorbent sock frozen		
	05/23/08		Well not sampled - absorbent sock frozen		
	06/25/08		14.12	--	428.11
	07/14/08		14.63	--	427.60
	08/06/08		11.38	--	430.85
	09/16/08		12.68	--	429.55
	10/27/08		13.97	--	428.26
	11/24/08		14.03	--	428.20
	12/19/08		14.45	--	427.78
	01/30/09		15.03	--	427.20
	02/19/09		15.27	0.02	426.98
	03/25/09		Well recessed in vault by gravel regrade		
	04/20/09		Well recessed in vault by gravel regrade		
	05/26/09		Well recessed in vault by gravel regrade		
	06/24/09		Well recessed in vault by gravel regrade		
	07/27/09		Well recessed and buried in vault by gravel regrade		
	08/26/09		Well abandoned in place		
MW-3	10/23/03	437.49	13.60	--	423.89
	03/10/04		15.39	--	422.10
	09/16/04		14.99	--	422.50
	04/19/05		15.88	--	421.61
	09/07/05		14.10	--	423.39
	04/20/06		15.87	--	421.62
	09/12/06		13.78	--	423.71
	03/16/07		15.84	--	421.65
	09/10/07	442.67	14.07	--	428.60
	04/04/08		16.06	--	426.61
	09/16/08		13.18	--	429.49
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		Well buried by gravel regrade		
	08/01/09		Well buried by gravel regrade		
	09/17/09		Well buried by gravel regrade		
	10/22/09		Well buried by gravel regrade		
	11/03/09		Well buried by gravel regrade		
	12/14/09		Well buried by gravel regrade		
	01/12/10		Well buried by gravel regrade		
	02/09/10		Well buried by gravel regrade		
	0318/10		Well buried by gravel regrade		
	04/21/10		Well buried by gravel regrade		
	05/26/10		Well buried by gravel regrade		
	06/15/10		Well buried by gravel regrade		

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-3 Cont.	07/20/10		Well buried by gravel regrade		
	08/16/10		Well buried by gravel regrade		
	09/22/10	442.74	Well buried by gravel regrade		
	10/27/10		Well buried by gravel regrade		
	11/15/10		Well buried by gravel regrade		
	12/13/10		Well buried by gravel regrade		
	01/04/11		Well buried by gravel regrade		
	02/07/11		Well buried by gravel regrade		
	09/21/11		13.21	--	429.53
	07/23/12		14.20	--	428.54
	07/30/13		**14.98**	**--**	**427.76**
MW-4	10/22/03	437.33	13.70	Present	423.63
	03/10/04		15.25	0.23	422.26
	09/16/04		14.85	0.03	422.50
	04/19/05			and water	
	09/07/05		13.92	--	423.41
	04/20/06		15.74	0.32	421.85
	08/11/06		14.19	--	423.14
	09/12/06		13.63	--	423.70
	12/01/06		14.93	--	422.40
	12/22/06		15.11	--	422.22
	02/06/07		15.43	--	421.90
	03/16/07		16.06	0.46	421.64
	04/30/07		15.15	--	422.18
	05/18/07		14.91	--	422.42
	09/10/07	442.52	13.91	Present	428.61
	10/15/07		14.45	--	428.07
	11/19/07		Well not gauged - inaccessible		
	01/29/08		Well not gauged - inaccessible		
	02/13/08		Well not gauged - unable to locate		
	04/04/08		15.81	0.01	426.72
	05/23/08		Well not sampled - absorbent sock frozen		
	06/25/08		14.47	--	428.05
	07/14/08		14.56	--	427.96
	08/06/08		11.73	--	430.79
	09/16/08		13.01	0.01	429.52
	10/27/08		14.34	--	428.18
	11/24/08		14.39	--	428.13
	12/19/08		14.82	--	427.70
	01/30/09		15.41	--	427.11
	02/19/09		15.61	--	426.91
	03/25/09		15.80	0.09	426.79
	04/20/09		16.36	0.62	426.66
	05/26/09		NM	NA	NA
	06/24/09		Well submerged under water		
	07/27/09		14.76	0.01	427.77
	08/26/09		14.60	--	427.92

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-4 Cont.	09/17/09		13.95	--	428.57
	10/22/09		14.72	--	427.80
	11/03/09		14.93	--	427.59
	12/14/09		15.19	--	427.33
	01/12/10		NM	NA	NA
	02/09/10		16.11	0.41	426.74
	03/18/10		16.90	0.01	425.63
	04/21/10		16.89	0.90	426.35
	05/26/10		15.09	--	427.43
	06/15/10		14.38	--	428.14
	07/20/10		14.68	--	427.84
	08/16/10		14.80	--	427.72
	09/22/10	442.44	14.50	--	427.94
	10/27/10		15.40	--	427.04
	11/15/10		15.25	0.07	427.25
	12/13/10		Unable to locate well		
	01/04/11		Unable to locate well		
	02/07/11		Unable to locate well		
	03/22/11		Unable to locate		
	04/13/11		Unable to locate		
	09/21/11		12.92	--	429.52
	07/23/12		13.90	--	428.54
	07/30/13		**14.65**	**--**	**427.79**
MW-5	10/23/03	436.37	12.58	--	423.79
	03/10/04		14.34	--	422.03
	09/16/04		13.92	--	422.45
	04/19/05		well not sampled - covered with ice and ponded water		
	09/07/05		13.01	--	423.36
	04/20/06		well not sampled - covered with ice and ponded water		
	09/12/06		12.70	--	423.67
	03/15/07		15.78	--	420.59
	09/10/07	441.54	13.00	--	428.54
	04/04/08		Well not sampled - monument underwater		
	09/16/08		Well not sampled - unable to locate		
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		13.98	--	427.56
	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-5 Cont.	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		13.78	--	427.76
	08/16/10		NM	NA	NA
	09/22/10	441.51	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.03	--	429.48
	07/23/12		13.02	--	428.49
	07/30/13		**13.80**	**--**	**427.71**
MW-7	10/03/05	438.12	13.96	--	424.16
	04/20/06		16.84	--	421.28
	09/11/06		14.74	--	423.38
	03/16/07		16.78	--	421.34
	09/09/07	443.32	15.05	--	428.27
	04/04/08		17.08	--	426.24
	09/16/08		14.16	--	429.16
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		15.97	--	427.35
	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		15.64	--	427.68
	08/16/10		NM	NA	NA
	09/22/10	443.20	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		13.99	--	429.21
	07/23/12		14.99	--	428.21
	07/30/13		**15.93**	**--**	**427.27**

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-8	10/03/05	436.51	12.32	--	424.19
	04/20/06		15.23	--	421.28
	09/11/06		13.12	--	423.39
	03/16/07		15.18	--	421.33
	09/09/07	441.69	13.41	--	428.28
	04/04/08		15.42	--	426.27
	09/16/08		12.49	--	429.20
	07/27/09		14.40	--	427.29
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		14.05	--	427.64
	08/16/10		NM	NA	NA
	09/22/10	441.61	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.36	--	429.25
	07/23/12		13.21	--	428.40
	07/30/13		**14.19**	**--**	**427.42**
MW-9	10/03/05	436.39	12.18	--	424.21
	04/20/06		15.06	--	421.33
	09/11/06		12.90	--	423.49
	03/16/07		14.99	--	421.40
	09/09/07	441.56	13.21	--	428.35
	04/04/08		15.28	--	426.28
	09/16/08		12.31	--	429.25
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		14.05	--	427.51
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-9 Cont.	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/20/10		13.91	--	427.65
	08/16/10		NM	NA	NA
	09/22/10	441.45	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.19	--	429.26
	07/23/12		13.39	--	428.06
	07/30/13		**13.99**	**--**	**427.46**
MW-10	10/03/05	437.32	12.98	--	424.34
	04/20/06		15.82	--	421.50
	09/11/06		13.66	--	423.66
	03/14/07		Well buried under snow bank		
	09/09/07	442.52	13.98	--	428.54
	04/04/08		16.00	--	426.52
	09/16/08		13.07	--	429.45
	03/25/09		Well buried by recent construction		
	04/20/09		Well buried by recent construction		
	05/26/09		Well buried by recent construction		
	06/24/09		Well buried by recent construction		
	07/27/09		Well buried by recent construction		
	08/26/09		Well buried		
	09/17/09		Well buried		
	10/22/09		Well buried		
	11/03/09		Well buried		
	12/14/09		Well buried		
	01/12/10		Well buried		
	02/09/10		Well buried		
	03/18/10		Well buried		
	04/21/10		Well buried		
	05/26/10		Well buried		
	06/15/10		Well buried		
	07/20/10		Well buried		
	08/16/10		Well buried		
	09/22/10		Well buried		
	10/27/10		Well buried		
	11/15/10		Well buried		
	12/13/10		Well buried		
	01/04/11		Well buried		
	02/07/11		Well buried		
	09/21/11		Well buried		

Table 2
Groundwater Elevation Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (ft msl)	Depth to Water (ft BTOC)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [1]
MW-10 Cont.	07/23/12		Well Destroyed		
	07/30/13		**Well Destroyed**		

Notes:

btoc = below top of casing
feet msl = feet above mean sea level
LNAPL = Light non-aqueous phase liquid

[1]Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.
Bold Type = Results of events covered in this report
NA = Not Available
NM = Not Measured
-- = Not encountered

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-1	10/07/02	443.88	15.20	--	428.68
	09/03/03		13.83	0.01	430.06
	04/23/04		17.41	--	426.47
	09/16/04		17.22	0.01	426.67
	04/20/05		18.13	--	425.75
	10/01/05		14.08	--	429.80
	04/18/06	Well not sampled			
	09/17/06		14.98	--	428.90
	03/16/07		17.06	0.05	426.86
	09/12/07	443.91	15.28	--	428.63
	04/04/08	Well not sampled - ice in well			
	09/16/08		14.96	0.67	429.49
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		16.55	0.43	427.70
	08/26/09		NM	NA	NA
	09/17/09	Unable to locate well			
	10/22/09		16.36	0.31	427.80
	11/03/09	Unable to locate well			
	12/14/09	Unable to locate well			
	01/12/10		NM	NA	NA
	02/29/10	Unable to locate well			
	03/18/10	Unable to locate well			
	04/21/10	Well frozen			
	05/26/10		16.80	0.41	427.11
	06/15/10		18.54	--	425.37
	07/21/10		16.29	0.27	427.84
	08/16/10		NM	NA	NA
	09/22/10	443.90	16.03	0.13	427.97
	10/27/10		17.10	0.46	427.17
	11/15/10		16.62	0.12	427.38
	12/13/10		17.11	0.34	427.06
	01/04/11		17.34	0.38	426.86
	02/07/11		17.32	--	426.58
	03/22/11		17.61	0.32	426.55
	04/13/11	Well not gauged - obstructed with ice at ~2 ft btoc			
	06/15/11		16.02	0.21	428.05
	09/20/11		14.24	Trace	429.66
	07/23/12		15.29	Trace	428.61
	07/30/13		**16.20**	**--**	**427.70**
GEI-2	10/07/02	444.93	15.25	--	429.68
	09/03/03		13.94	--	430.99
	04/23/04		17.44	--	427.49
	09/16/04		17.22	--	427.71
	04/20/05		18.05	--	426.88

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-2 Cont.	10/01/05		15.1	--	429.83
	04/18/06	Well not sampled			
	09/17/06		15.92	--	429.01
	03/16/07	Well not sampled-covered with equipment			
	09/12/07	444.84	16.21		428.63
	04/04/08		18.18	0.02	426.68
	09/16/08		15.32	--	429.52
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		17.07	--	427.77
	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		16.95	--	427.89
	08/16/10		NM	NA	NA
	09/22/10	444.78	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		15.15	Trace	429.63
	07/23/12		**Obstructed**		
	07/30/13		**16.50**	**--**	**428.28**
GEI-3	10/07/02	444.29	14.7	--	429.59
	09/03/03		13.42	--	430.87
	04/23/04		16.78	--	427.51
	09/16/04		16.65	--	427.64
	04/20/05	Well not sampled			
	10/01/05		14.55	--	429.74
	04/18/06		17.45	--	426.84
	09/16/06		15.35	--	428.94
	03/17/07		17.43	--	426.86
	09/11/07	444.29	15.65	--	428.64
	04/04/08		17.63	--	426.66
	09/16/08		14.81	--	429.48
	03/25/09		NM	NA	NA

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-3 Cont.	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		16.60	--	427.69
	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		16.7	--	427.59
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		16.4	--	427.89
	08/16/10		NM	NA	NA
	09/22/10	444.24	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/20/11		15.13	Trace	429.11
	07/23/12		15.64	Trace	428.60
	07/30/13		**17.04**	**--**	**427.20**
GEI-4	10/07/02	444.56	15.68	0.67	429.42
	09/03/03		13.64	0.01	430.93
	04/23/04		17.2	--	427.36
	09/16/04		17.01	0.01	427.56
	04/20/05		17.8	--	426.76
	10/01/05		14.77	--	429.79
	04/18/06		17.72	--	426.84
	09/16/06		15.61	--	428.95
	11/30/06		16.88	0.02	427.70
	12/22/06		17.13	--	427.43
	02/06/07		17.39	--	427.17
	03/17/07		17.65	--	426.91
	04/30/07		17.07	--	427.49
	05/18/07		16.87	--	427.69
	09/11/07	444.56	15.98		428.58
	10/15/07		16.48	--	428.08
	11/19/07		16.18	--	428.38
	01/29/08		17.10	--	427.46
	02/13/08		17.33	--	427.23
	04/04/08		17.90	--	426.66
	05/23/08	Absorbent sock frozen in well			
	06/25/08		16.53	--	428.03

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-4 Cont.	07/14/08		16.30	0.02	428.28
	08/06/08		13.59	Sheen	430.97
	09/16/08		15.03	0.01	429.54
	10/27/08		16.39	0.03	428.19
	11/24/08		16.42	0.05	428.18
	12/19/08		16.92	0.14	427.75
	01/30/09		17.57	0.23	427.17
	02/19/09		17.79	0.26	426.98
	03/25/09	Unable to locate			
	04/20/09		18.08	0.33	426.74
	05/26/09		NM	NA	NA
	06/24/09		16.81	--	427.75
	07/27/09		16.80	--	427.76
	08/01/09		16.32	--	428.24
	09/17/09		15.68	--	428.88
	10/22/09		16.49	--	428.07
	11/03/09		16.85	--	427.71
	12/14/09		17.20	--	427.36
	01/12/10		NM	NA	NA
	02/09/10		18.72	--	425.84
	03/18/10		18.10	0.16	426.33
	04/21/10	Well Frozen			
	05/26/10	Well Frozen			
	06/15/10		15.99	--	428.57
	07/21/10		16.40	--	428.16
	08/16/10		16.57	--	427.99
	09/22/10	444.49	16.25	--	428.24
	10/27/10		17.5	--	426.99
	11/15/10		16.88	--	427.61
	12/13/10		17.15	--	427.34
	01/04/11		17.35	--	427.14
	02/07/11		17.72	--	426.77
	03/22/11	Well obstructed by parked bus			
	04/13/11	Well obstructed by parked bus			
	06/15/11		16.43	--	428.06
	09/20/11		14.82	Trace	429.67
	07/23/12		15.83	Trace	428.66
	07/30/13		**16.74**	**--**	**427.75**
GEI-5	10/07/02	441.93	12.35	--	429.58
	09/03/03		11.11	--	430.82
	04/23/04	Well not sampled			
	09/16/04		14.26	--	427.67
	04/20/05		15.24	--	426.69
	10/01/05		12.23	--	429.70
	04/18/06	Well not sampled			
	09/16/06		12.98	--	428.95
	03/16/07	Well not sampled due to damage			

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-5 Cont.	09/11/07	Well not sampled due to damage			
	04/04/08	Well not sampled - well underwater			
	09/16/08		12.49	0.01	429.45
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		14.20	--	427.73
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		13.73	--	428.2
	08/16/10		NM	NA	NA
	09/22/10	442.15	NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.42	--	429.51
	07/23/12		13.42	--	428.73
	07/30/13		**14.38**	**--**	**427.77**
GEI-6	10/07/02	441.83	12.2	--	429.63
	09/03/03		10.94	--	430.89
	04/23/04	Well not sampled			
	09/16/04		14.15	--	427.68
	04/20/05	Well not sampled			
	10/01/05		12.09	--	429.74
	04/18/06	Well not sampled			
	09/16/06		12.82	--	429.01
	03/17/07		14.87	--	426.96
	09/11/07	441.97	13.11	--	428.86
	04/04/08	Well not sampled - well underwater			
	09/16/08	Unable to locate well			
	03/25/09		NM	NA	NA
	04/20/09		NM	NA	NA
	05/26/09		NM	NA	NA
	06/24/09		NM	NA	NA
	07/27/09		14.02	0.02	427.97

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-6 Cont.	08/01/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	01/12/10		NM	NA	NA
	02/09/10		NM	NA	NA
	03/18/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10	Not Sampled Well Underwater			
	08/16/10		NM	NA	NA
	09/22/10		NM	NA	NA
	10/27/10		NM	NA	NA
	11/15/10		NM	NA	NA
	12/13/10		NM	NA	NA
	01/04/11		NM	NA	NA
	02/07/11		NM	NA	NA
	09/21/11		12.10	--	429.87
	07/23/12		13.09	--	428.88
	07/30/13		**13.90**	**--**	**428.07**
GEI-7	09/03/03	444.26	13.24	0.01	431.03
	04/23/04		17.07	0.41	427.52
	09/16/04		16.55	0.09	427.78
	04/20/05		18.11	0.93	426.89
	10/01/05		14.44	0.01	429.83
	04/18/06	Well not sampled			
	09/17/06		15.27	--	428.99
	02/06/07	Well not sampled - Unable to locate			
	03/16/07	Well not sampled-covered with forklifts			
	04/30/07		16.69	--	427.57
	05/18/07		16.48	--	427.78
	09/12/07	444.22	15.56	--	428.66
	10/15/07		16.14		428.08
	11/19/07		16.01	--	428.21
	01/29/08		17.19	0.09	427.10
	02/13/08		17.37	0.21	427.02
	04/04/08	Well not sampled - ice at 4.4 feet btoc			
	05/23/08		15.83	--	428.39
	06/25/08		16.10	--	428.12
	07/14/08		16.18	--	428.04
	08/06/08		13.14	--	431.08
	09/16/08		14.68	--	429.54
	10/27/08		16.03	--	428.19
	11/24/08		16.04	--	428.18
	12/19/08		16.45	--	427.77

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-7 Cont.	01/30/09		17.04	0.02	427.20
	02/19/09		17.25	0.03	426.99
	03/25/09	Unable to locate			
	04/20/09		17.53	0.08	426.75
	06/24/09		16.15	--	428.07
	07/27/09		16.44	--	427.78
	08/26/09		16.20	--	428.02
	09/17/09		15.56	--	428.66
	10/22/09		16.41	--	427.81
	11/03/09		16.57	--	427.65
	12/14/09		16.85	--	427.37
	02/09/10		18.11	0.85	426.79
	04/21/10	Well frozen			
	05/26/10		16.76	--	427.46
	06/15/10		15.84	--	428.38
	07/21/10		13.3	--	430.92
	08/16/10		16.46	--	427.76
	09/22/10	444.18	16.15	--	428.03
	10/27/10		17.4	0.47	427.16
	11/15/10		16.91	0.2	427.43
	12/13/10		17.56	0.62	427.12
	01/04/11		17.91	0.8	426.91
	02/07/11		18.42	0.97	426.54
	03/22/11		18.38	1.0	426.60
	04/13/11		18.34	0.92	426.58
	06/15/11		16.26	0.21	428.09
	09/20/11		14.47	Trace	429.71
	07/23/12		15.54	0.06	428.69
	07/30/13		**16.38**	**--**	**427.80**
GEI-8	09/03/03	444.55	13.64	--	430.91
	04/23/04		17.15	--	427.4
	09/16/04		16.95	--	427.6
	04/20/05		17.77	0.14	426.89
	10/01/05		14.73	--	429.82
	04/18/06		17.71	--	426.84
	09/16/06		15.92	--	428.63
	11/30/06		16.85	0.01	427.71
	12/22/06		17.07	--	427.48
	02/06/07		17.35	--	427.2
	03/16/07		17.60	--	426.95
	04/30/07	Well not sampled due to ice			
	05/08/07	Well not sampled due to ice			
	09/11/07	444.54	15.87	--	428.67
	10/15/07		16.47	--	428.07
	01/29/08		17.48	0.04	427.09
	02/13/08		17.57	0.04	427.00
	04/04/08	Well not sampled - inaccessible			

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-8 Cont.	05/23/08	Well not sampled - inaccessible			
	06/25/08	Well not sampled - inaccessible			
	07/14/08	Well not sampled - inaccessible			
	08/06/08	Well not sampled - inaccessible			
	09/16/08	Well not sampled - inaccessible			
	10/27/08		16.37	--	428.17
	11/24/08		16.35	--	428.19
	12/19/08		16.77	--	427.77
	01/30/09		17.42	0.10	427.20
	02/19/09		17.67	0.16	427.00
	03/25/09	Unable to locate			
	04/20/09	Flooded, ice at 1.41' BTOC			
	06/24/09		16.49	--	428.05
	07/27/09		16.71	--	427.83
	08/26/09		16.50	--	428.04
	09/17/09		15.89	--	428.65
	10/22/09		16.71	--	427.83
	11/03/09		16.84	--	427.7
	12/14/09		17.18	--	427.36
	02/09/10		17.74	--	426.8
	04/21/10	Well Frozen			
	05/26/10	Well Frozen			
	06/15/10		21.1	--	423.44
	07/21/10		16.6	--	427.94
	08/16/10		16.79	0.01	427.76
	09/22/10	444.51	16.46	--	428.05
	10/27/10		17.30	--	427.21
	11/15/10		17.10	--	427.41
	12/13/10		17.38	--	427.13
	01/04/11		17.62	0.04	426.92
	02/07/11		17.89	0.36	426.91
	03/22/11		18.35	0.57	426.62
	04/13/11	Well was not gauged - submerged in large puddle			
	06/15/11		16.42	--	428.12
	09/20/11		14.81	Trace	429.73
	07/23/12		15.83	Trace	428.71
	07/30/13		**16.70**	**--**	**427.81**
GEI-9	09/03/03	444.32	13.43	0.01	430.90
	04/23/04		16.87	--	427.45
	09/16/04		16.67	--	427.65
	04/20/05		17.47	0.01	426.86
	10/01/05		14.53	--	429.79
	04/18/06		17.39	--	426.93
	09/16/06		15.37	--	428.95
	03/17/07		17.41	--	426.91
	09/11/07	444.32	15.63	--	428.69
	04/04/08		17.62	--	426.70

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-9 Cont.	09/16/08		14.78	--	429.54
	07/27/09		16.61	--	427.71
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10	Unable to Locate			
	08/16/10		NM	NA	NA
	09/22/10	444.27	NM	NA	NA
	09/20/11		14.59	Trace	429.68
	07/23/12		15.61	--	428.66
	07/30/13		**16.50**	--	**427.77**
GEI-10	10/01/05	443.48	13.74	--	429.74
	04/1806		16.73	--	426.75
	09/16/06		14.29	--	429.19
	03/16/07	Well not sampled-unable to locate			
	09/09/07	443.31	14.58	--	428.73
	04/04/08		16.51	--	426.80
	09/16/08		13.70	--	429.61
	07/27/09		15.45	--	427.86
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09			NM	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		15.3	--	428.01
	08/16/10	443.22	NM	NA	NA
	09/20/11		13.43	--	429.79
	07/23/12		14.48	--	428.74
	07/30/13		**15.34**	**--**	**427.88**
GEI-11	10/01/05	443.81	14.10	--	429.71
	04/18/06		17.58	--	426.23
	09/17/06		14.91	--	428.90
	11/30/06		16.30	0.14	427.62
	12/24/06		16.44	--	427.37
	02/06/07		16.69	--	427.12
	03/16/07		16.96	0.02	426.87
	04/30/07		16.73	0.47	427.46

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-11 Cont.	05/18/07		16.30	0.20	427.67
	09/12/07	443.78	15.22	--	428.56
	10/15/07		15.81	--	427.97
	11/19/07		15.71	--	428.07
	01/29/08		16.83	0.03	426.97
	02/13/08		16.91	0.03	426.89
	04/04/08		17.55	0.44	426.58
	05/23/08		15.48	--	428.30
	06/25/08		15.83	0.05	427.99
	07/14/08		16.19	--	427.59
	08/06/08		12.78	Sheen	431.00
	09/16/08		14.31	--	429.47
	10/27/08		15.69	--	428.09
	11/24/08		15.69	--	428.09
	12/19/08		16.15	0.05	427.67
	01/30/09		16.83	0.19	427.10
	02/19/09		17.04	0.20	426.90
	03/25/09	Unable to locate			
	04/20/09		17.32	0.32	426.72
	06/24/09		15.76	--	428.02
	07/27/09	No current access to well - under permit stipulation			
	08/26/09	No current access to well - under permit stipulation			
	09/17/09	No current access to well - under permit stipulation			
	10/22/09	No current access to well - under permit stipulation			
	11/03/09	No current access to well - under permit stipulation			
	12/14/09	No current access to well - under permit stipulation			
	02/09/10	No current access to well - under permit stipulation			
	04/21/10	No current access to well - under permit stipulation			
	05/26/10	No current access to well - under permit stipulation			
	06/15/10	No current access to well - under permit stipulation			
	07/21/10	No current access to well - under permit stipulation			
	08/16/10	No current access to well - under permit stipulation			
	09/21/11		14.1	--	429.68
	07/23/12	No current access to well - under permit stipulation			
	07/30/13	**No current access to well - under permit stipulation**			
GEI-12	10/01/05	443.55	13.72	--	429.83
	04/1806		16.71	--	426.84
	09/16/06		14.61	--	428.94
	03/16/07		16.65	0.04	426.93
	09/09/07	443.52	14.89	--	428.63
	04/04/08		16.98	0.13	426.64
	09/16/08		14.00	--	429.52
	07/27/09		15.80	--	427.72
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
GEI-12 Cont.	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		15.61	--	427.91
	08/16/10	443.45	NM	NA	NA
	09/20/11		13.8	Trace	429.65
	07/23/12		14.79	Trace	428.66
	07/30/13	**Obstructed**			
MW-1	09/20/12	443.97	14.5	--	429.47
	07/23/12		15.54	--	428.43
	07/30/13		**16.47**		**427.50**
MW-2	10/01/05	444.07	14.43	--	429.64
	04/1806		17.47	--	426.60
	09/15/06		15.31	--	428.76
	03/17/07		17.36	--	426.71
	09/09/07	444.03	15.60	--	428.43
	04/04/08		17.60	--	426.43
	09/16/08		14.71	--	429.32
	07/27/09		16.78	--	427.25
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		16.45	--	427.58
	08/16/10	443.94	NM	NA	NA
	09/21/11		14.51	--	429.43
	07/23/12		15.55	--	428.39
	07/30/13		**16.47**	**--**	**427.47**
MW-3	07/21/10	NM	16.2	**--**	NA
	08/16/10	444.24	NM	NA	NA
	09/21/11		14.87	**--**	429.37
	07/23/12		15.94	--	428.30
	07/30/13		**16.55**	**--**	**427.69**
MW-4	10/01/05	Well not sampled			
	04/1806		20.63	--	--
	09/15/06		18.48	--	--
	03/16/07		20.60	--	--
	09/09/07	447.09	18.82	--	428.27
	04/04/08		20.82	--	426.27
	09/16/08		17.90	--	429.19

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
MW-4 Cont.	07/27/09		19.78	--	427.31
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		19.39	--	427.70
	08/16/10		NM	NA	NA
	09/21/11		17.7	--	-17.70
	07/23/12		18.72	--	428.37
	07/30/13		**19.63**	**--**	**427.46**
MW-5	10/01/05	444.05	14.3	--	429.75
	04/1806		17.33	--	426.72
	09/15/06		15.11	--	428.94
	03/16/07		17.31	--	426.74
	09/12/07	444.01	15.42	--	428.59
	04/04/08		17.44	--	426.57
	09/16/08		14.56	--	429.45
	07/27/09		16.44	--	427.57
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		16.05	--	427.96
	08/16/10	444	NM	NA	NA
	09/21/11		14.43	--	429.57
	07/23/12		15.43	--	428.57
	07/30/13		**16.30**	**--**	**427.70**
MW-6	10/01/05	Well not sampled			
	04/1806		20.26	--	--
	09/15/06		18.11	--	--
	03/16/07		20.23	--	--
	09/11/07	446.92	18.53	--	428.39
	04/04/08		20.48	--	426.44
	09/16/08		17.54	--	429.38
	07/27/09		19.40	--	427.52
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
MW-6 Cont.	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		NM	NA	NA
	08/16/10	446.92	NM	NA	NA
	09/21/11		17.46	--	429.46
	07/23/12		18.56	--	428.36
	07/30/13		**19.95**	**--**	**426.97**
MW-13	09/09/07	443.29	14.76	--	428.53
	04/04/08	Well not sampled - ice at 4.5 feet btoc			
	09/16/08		13.87	--	429.42
	07/27/09	No current access to well - under permit stipulation			
	08/26/09	No current access to well - under permit stipulation			
	09/17/09	No current access to well - under permit stipulation			
	10/22/09	No current access to well - under permit stipulation			
	11/03/09	No current access to well - under permit stipulation			
	12/14/09	No current access to well - under permit stipulation			
	02/09/10	No current access to well - under permit stipulation			
	04/21/10	No current access to well - under permit stipulation			
	05/26/10	No current access to well - under permit stipulation			
	06/15/10		NM	NA	NA
	07/21/10		NM	NA	NA
	08/16/10		NM	NA	NA
	09/21/11		13.64	--	429.65
	07/23/12	No current access to well - under permit stipulation			
	07/30/13	**No current access to well - under permit stipulation**			
MW-14	09/22/11	443.42	15.57	--	427.85
	10/27/10		16.41	--	427.01
	11/15/11		16.26	--	427.16
	12/13/10		16.51	--	426.91
	01/04/11		16.72	--	426.7
	02/07/11		17.13	--	426.29
	03/22/11		17.06	--	426.36
	04/13/11		17.1	--	426.32
	09/21/11		13.98	--	429.44
	07/23/12		15.02	--	428.40
	07/30/13		**15.79**	**--**	**427.63**
MW-15	09/22/11	443.22	15.42	--	427.8
	10/27/10		17.5	--	425.72
	11/15/11		16.1	--	427.12
	12/13/10		16.36	--	426.86
	01/04/11		16.56	0.01	426.67
	02/07/11		16.96	--	426.26

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
MW-15 Cont.	03/22/11		16.95	0.06	426.32
	04/13/11		16.99	0.06	426.28
	06/15/11		15.38	--	427.84
	09/21/11		13.84	--	429.38
	07/23/12		14.88	--	428.34
	07/30/13		**15.64**	--	**427.58**
K-5	10/01/05	443.55	13.82	--	429.73
	04/1806	Well not sampled			
	09/17/06		15.14	--	428.41
	03/16/07	Well not sampled-unable to open Robco cover			
	09/09/07	443.75	15.02	--	428.73
	04/04/08		17.00	--	426.75
	09/16/08		14.15	--	429.60
	07/27/09		15.94	--	427.81
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09	No current access to well - under permit stipulation			
	02/09/10	No current access to well - under permit stipulation			
	04/21/10	No current access to well - under permit stipulation			
	05/26/10	No current access to well - under permit stipulation			
	06/15/10	No current access to well - under permit stipulation			
	07/21/10		15.6	--	428.15
	08/16/10	443.76	NM	NA	NA
	09/21/11		13.97	--	429.79
	07/23/12		Obstructed		
	07/30/13		**16.00**	**--**	**427.76**
K-7	10/01/05	442.49	12.72	--	429.77
	04/1806		16.92	--	425.57
	09/16/06		13.49	--	429.00
	03/16/07	Well not sampled-unable to locate			
	09/09/07	442.55	13.78	--	428.77
	04/04/08	Well not sampled - ice in well			
	09/16/08		12.91	--	429.64
	07/27/09		14.63	--	427.92
	08/26/09		NM	NA	NA
	09/17/09		NM	NA	NA
	10/22/09		NM	NA	NA
	11/03/09		NM	NA	NA
	12/14/09		NM	NA	NA
	02/09/10		NM	NA	NA
	04/21/10		NM	NA	NA
	05/26/10		NM	NA	NA
	06/15/10		NM	NA	NA
	07/21/10		14.4	--	428.15
	08/16/10	442.49	NM	NA	NA

Table 3
Groundwater Elevation Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	Well Elevation (feet msl) [1]	Depth to Water (feet btoc)	LNAPL Thickness (feet)	Groundwater Elevation (feet msl) [2]
K-7 Cont.	09/20/11		12.72	--	429.77
	07/23/12		Obstructed		
	07/30/13		**Obstructed**		

Notes:
btoc = below top of casing
feet msl = feet above mean sea level
LNAPL = Light non-aqueous phase liquid
Bold Type = Results of events covered in this report
btoc = below top of casing
NA = Not Available
NM = Not Measured
-- = Not encountered

[1] Elevations are relative to an on-site Temporary Benchmark, based on vertical control point Fire Hydrant 08-05.

[2] Where LNAPL was present, groundwater elevation were adjusted using an average specific gravity of 0.80.

Table 4
Groundwater Analytical Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
TH-1	06/24/02	3,160	103,000	--	--	1.61	<2.50	56.1	317
	09/25/02	1,510	7,400	--	--	2.73	3.52	48.4	325
	04/29/03	1,500	33,000	--	2,900	<2.0	<0.5	27	120
	09/03/03	1,500	47,000	--	7,700	<2.0	<0.5	27	160
	03/10/04	2,300	31,000	--	3,800	<2.0	<0.5	30	160
	09/15/04	1,700	62,000	--	7,600	1.7	<0.5	21	120
	04/19/05	1,200	64,000	--	<3,900	<2.0	<0.5	15	68
	09/08/05	1,100	25,000	--	1,100	1.3	<0.5	16	95
	04/20/06	740	12,000	--	710	0.7	<0.5	11	45
	09/14/06	860	13,000	--	<490	1.1	<0.5	12	69
	03/14/07	600	4,400	--	<210	<2	<1	8	30
	03/14/07[D]	600	5,100	--	<200	<2	<1	8	30
	09/12/07	600	8,600	--	<200	1	<1	7	30
	09/12/07[D]	500	7,800	--	<200	1	<1	6	20
	04/08/08	455	5,570	--	<750	0.813	<0.500	7.30	26.2
	09/17/08	804	--[1]	--	--[1]	1.26	<0.500	10.3	39.6
	07/27/09	877	3,510	--	389	0.540	<1.00	11.5	42.8
	07/20/10	1,300	88,800	--	<6,800	1.0	1	9.1	34
Duplicate	07/20/10	1,400	36,000	--	<3,400	6.8	1	9.8	39
	[3]09/22/11	390	--	--	--	0.8	<0.5	5	<20
Duplicate	09/22/11	340	18,000	--	<3,300	0.9	<0.5	4.8	<20
	07/28/12	400	16,000	12,000	<1,400	1	<2	3.9	<12
Duplicate	07/28/12	420	9,700	--	--	0.9	<2	3.9	8.4
	08/01/13	**459**	**63,400**	**31,900**	**4,400**	**<1.0**	**<1.0**	**7.3**	**17.5**
TH-2	06/24/02	Well not sampled-frozen shut							
	09/25/02	38,900	15,300	--	--	1,540	5,220	1,030	6,600
	04/29/03	LNAPL present - well not sampled							
	09/03/03	37,000	190,000	--	150,000	730	3,800	860	6,600
	03/10/04	LNAPL present - 0.02' - well not sampled							
	09/15/04	LNAPL present - 0.04' - well not sampled							
	04/19/05	LNAPL present - 0.1' - well not sampled							
	09/08/05	LNAPL present - 0.03' - well not sampled							
	04/20/06	LNAPL present - 0.11' - well not sampled							
	09/14/06	25,000	38,000	--	44,000	560	630	1,000	5,800
	03/14/07	Well not sampled-buried under ice							
	09/13/07	30,000	98,000	--	62,000	600	2,300	800	5,600
	04/08/08	47,100	58,700	--	30,200	652	1,650	1,280	8,580
	09/17/08	LNAPL present - 0.01' - well not sampled							
	07/27/09	LNAPL present - 0.11' - well not sampled							
	07/19/10	28,000	74,000	--	57,000	560	2,700	790	6,400
	09/22/11	20,000	7,300	--	6,000	270	1,500	850	4,900
	07/28/12	22,000	38,000	32,000	22,000	260	590	870	4,400
	08/01/13	**40,700**	**8,700**	**4,000**	**1,600**	**477**	**2,110**	**1,050**	**7,500**
TH-4	06/24/02	178	3,490	--	--	5.49	1.21	1.45	19.1
	09/25/02	8,020	9,350	--	--	903	542	90.7	965
	04/29/03	11,000	41,000	--	3,500	970	1,200	73	1,200
	09/03/03	7,100	120,000	--	8,100	420	680	35	880
	03/10/04	14,000	150,000	--	10,000	1,600	940	82	1,300
		Well decommissioned for railroad construction on 8/19/2004							

Table 4
Groundwater Analytical Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
TH-5	06/24/02	1,100	34,500	--	--	6.05	1.45	18.3	98.1
	09/25/02	LNAPL present - well not sampled							
	04/29/03	LNAPL present - well not sampled							
	09/03/03	LNAPL present - well not sampled							
	03/10/04	LNAPL present - 0.03' - well not sampled							
	09/15/04	1,300	77,000	--	24,000	6.6	1.5	24	140
	04/19/05	1,100	180,000	--	<10,000	3.2	1.1	19	100
	09/08/05	LNAPL present - 0.02' - well not sampled							
	04/20/06	1,300	250,000	--	100,000	2.5	0.9	17	130
	09/14/06	700	7,700	--	<500	2.0	0.6	9.0	56
	03/14/07	900	70,000	--	38,000	<10	<1	10	60
	09/13/07	900	13,000	--	6,100	4	<1	7	40
	04/08/08	Well not sampled - ice in well							
	09/17/08	LNAPL present - 0.01' - well not sampled							
	07/31/09	515	2,560	--	534	0.690	<1.00	3.54	20.2
	07/31/09[D]	551	3,940	--	640	0.560	<1.00	3.67	20.6
	07/19/10	1,200	16,000	--	<1,300	1.3	<0.5	3.6	30
	09/22/11	690	1,100		140	1.6	0.6	5.5	59
	07/28/12	840	20,000	23,000	6,700	<6	0.6	5.5	37
	08/01/13	**449**	**2,900**	**2,400**	**<1,000**	**<1.0**	**<1.0**	**1.4**	**20.5**
TH-7	06/25/02	163	5,160	--	--	1.35	<0.500	1.00	4.67
	09/25/02	153	4,630	--	--	0.881	<0.500	<0.500	1.48
	04/29/03	260	12,000	--	2,800	1.0	<0.5	0.9	2.3
	09/03/03	140	8,000	--	3,300	1.6	<0.5	3.6	3.5
	03/10/04	250	8,900	--	2,300	<2.0	<0.5	0.7	<1.5
	09/15/04	210	14,000	--	2,800	0.6	<0.5	<0.5	<1.5
	04/19/05	210	15,000	--	560	0.7	<0.5	<0.5	<1.5
	09/08/05	120	1,800	--	1,300	<0.5	<0.5	<0.5	1.6
	04/20/06	91	3,700	--	2,300	<0.5	<0.5	<0.5	<1.5
	09/14/06	100	790	--	430	0.6	<0.5	<0.5	<1.5
	03/14/07	50	1,200	--	480	<1	<1	<1	<2
	09/12/07	100	1,100	--	540	<1	<1	<1	<2
	04/08/08	82.2	932	--	<750	<0.500	<0.500	<0.500	1.50
	09/17/08	124	--[1]	--	--[1]	0.426	<0.500	<0.500	2.55
	07/27/09	66.2	570	--	<391	<0.500	<1.00	<1.00	<3.00
	07/19/10	17	2,100	--	520	<.500	<0.5	<0.5	<1.5
	09/22/11	41	500	--	300	<0.5	<0.5	<0.5	<1.5
	07/28/12	73	1,500	510	760	<0.5	<0.5	<0.5	<1.5
	08/01/13	**<100**	**1,200**	**800**	**<1,100**	**<1.0**	**<1.0**	**<1.0**	**<3.0**
	08/01/13	**<100**	**960**	**610**	**<980**	**<1.0**	**<1.0**	**<1.0**	**<3.0**
TH-10	06/24/02	<50.0	236	--	--	<0.200	<0.500	<0.500	<1.00
	09/25/02	<80.0	144	--	--	<0.500	<0.500	<0.500	<1.00
	04/29/03	<10	320	--	1,800	<0.5	<0.5	<0.5	<1.5
	04/29/03[D]	<10	320	--	1,800	<0.5	<0.5	<0.5	<1.5
	09/03/03	<10	230	--	1,600	<0.5	<0.5	<0.5	<1.5
	09/3/03[D]	<10	300	--	2,000	<0.5	<0.5	<0.5	<1.5
	03/10/04	<10	300	--	1,600	<0.5	<0.5	<0.5	<1.5
	03/10/04[D]	<10	290	--	1,700	<0.5	<0.5	<0.5	<1.5
	09/15/04	10	210	--	990	<0.5	<0.5	<0.5	<1.5
	09/15/04[D]	<10	220	--	1,100	<0.5	<0.5	<0.5	<1.5

Table 4
Groundwater Analytical Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
TH-10 Cont.	04/19/05	<10	530	--	2,600	<0.5	<0.5	<0.5	<1.5
	04/19/05[D]	<10	490	--	2,500	<0.5	<0.5	<0.5	<1.5
	09/08/05	<10	230	--	1,500	<0.5	<0.5	<0.5	<1.5
	9/8/2005[D]	<10	220	--	1,400	<0.5	<0.5	<0.5	<1.5
	04/20/06	<10	1,100	--	5,500	<0.5	<0.5	<0.5	<1.5
	04/20/06[D]	<10	620	--	2,900	<0.5	<0.5	<0.5	<1.5
	09/13/06	<10	110	--	600	<0.5	<0.5	<0.5	<1.5
	09/13/06[D]	<10	140	--	790	<0.5	<0.5	<0.5	<1.5
	03/14/07	<10	350	--	1,200	<1	<1	<1	<2
	09/12/07	<10	200	--	1,000	<1	<1	<1	<2
	04/08/08	<50.0	214	--	<743	<0.500	<0.500	<0.500	<1.00
	04/08/08[D]	<50.0	182	--	<735	<0.500	<0.500	<0.500	<1.00
	09/17/08	<50.0	--[1]	--	--[1]	<0.200	<0.500	<0.500	<1.00
	07/30/09	<50.0	<385[2]	--	<385[2]	<0.500	<1.00	<1.00	<3.00
	07/19/10	<10	61	--	170	<0.5	<0.5	<0.5	<1.5
	09/22/11	<10	56	--	110	<0.5	<0.5	<0.5	<1.5
	07/28/12	<10	130	70	600	<0.5	<0.5	<0.5	<1.5
	08/01/13	**<100**	**<400**	**--**	**<1,000**	**<1.0**	**<1.0**	**<1.0**	**<3.0**
TH-13	06/24/02	264	9,400	--	--	2.92	0.955	2.82	22.2
	09/25/02	87.0	2,180	--	--	2.28	<0.500	0.953	5.23
	04/29/03	1,100	16,000	--	2,100	84	1.3	5.8	30
	09/03/03	360	8,800	--	1,400	8.3	<0.5	2	14
	03/10/04	1,600	30,000	--	2,200	120	10	16	75
	09/23/04	3,200	21,000	--	<400	200	36	43	190
	04/19/05	1,700	110,000	--	<3,900	14	34	25	210
	09/08/05	1,700	5,100	--	2,400	83	100	42	170
	04/20/06	Well not sampled - buried under ice, monument filled							
	09/14/06	440	2,500	--	110	59	0.6	4.4	12
	03/15/07	300	2,000	--	480	60	<1	1	2
	09/13/07	500	3,000	--	<200	100	<1	4	7
	04/10/08	548	5,360	--	<735	89.0	1.26	4.56	22.3
	09/17/08	1,350	9,590	--	998	184	8.68	32.1	92.9
	07/27/09	No current access to well - under permit stipulation							
	07/19/10	No current access to well - under permit stipulation							
	09/22/11	No current access to well - under permit stipulation							
	07/28/12	No current access to well - under permit stipulation							
	08/01/13	**No current access to well - under permit stipulation**							
TH-17	06/24/02	1,820	10,500	--	--	175	<2.50	104	234
	09/25/02	2,860	8,900	--	--	198	6.32	105	269
	04/29/03	5,000	23,000	--	6,900	57	9.5	270	860
	09/03/03	1,800	36,000	--	25,000	170	2.5	120	220
	03/10/04	1,200	44,000	--	10,000	17	3.5	79	150
	09/15/04	780	81,000	--	24,000	5.2	3.4	44	97
	04/19/05	Well not sampled - buried under ice, monument filled							
	09/08/05	990	8,900	--	4,100	13	2.0	49	140
	04/20/06	Well not sampled - buried under ice, monument filled							
	09/14/06	1,400	3,400	--	1,500	16	2.1	70	150
	03/15/07	1,500	4,100	--	580	4	2	50	100
	09/13/07	1,300	9,100	--	2,500	10	2	70	
	04/04/08	Well not sampled - monument underwater							

Table 4
Groundwater Analytical Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
TH-17 Cont.	09/17/08	835	11,300	--	3,070	22.6	<2.50	65.6	83.2
	09/17/08[D]	966	10,600	--	2,650	22.9	<5.00	70.2	94.8
	07/27/09	No current access to well - under permit stipulation							
	07/19/10	No current access to well - under permit stipulation							
	09/22/11	No current access to well - under permit stipulation							
	07/28/12	No current access to well - under permit stipulation							
	08/01/13	**No current access to well - under permit stipulation**							
TH-18	06/24/02	Well not sampled - frozen shut							
	09/25/02	1,930	4,730	--	--	277	<5.00	70.5	139
	04/29/03	Well Frozen - well not sampled							
	09/03/03	2,600	3,300	--	860	290	5.4	120	210
	03/10/04	2,600	2,700	--	1,400	87	3.8	140	240
	09/23/04	1,100	1,300	--	470	17	0.7	64	72
	04/19/05	Well not sampled - buried under ice, monument filled							
	09/08/05	1,300	1,400	--	510	56	2	71	140
	04/20/06	Well not sampled - buried under ice, monument filled							
	09/14/06	2,200	1,300	--	<98	86	2.4	130	230
	03/15/07	2,100	1,800	--	130	40	1	100	100
	09/13/07	1,200	2,000	--	390	60	2	100	100
	04/04/08	Well not sampled - monument underwater							
	09/17/08	1,030	2,460	--	<743	46.7	1.14	62.7	71.7
	07/27/09	No current access to well - under permit stipulation							
	07/19/10	No current access to well - under permit stipulation							
	09/22/11	No current access to well - under permit stipulation							
	07/28/12	No current access to well - under permit stipulation							
	08/01/13	**No current access to well - under permit stipulation**							
MW-23	06/25/02	<50.0	1,370	--		0.230	<0.500	<0.500	<1.00
	09/25/02	<80.0	2,800	--		<0.500	<0.500	0.522	1.05
	04/29/03	48	2,800	--	800	0.6	<0.5	<0.5	<1.5
	09/03/03	77	1,100	--	660	<0.5	<0.5	3.2	2.3
	03/10/04	26	22,000	--	5,800	<0.5	<0.5	<0.5	<1.5
	09/15/04	31	9,300	--	2,600	<0.5	<0.5	<0.5	<1.5
	04/19/05	34	9,900	--	580	<0.5	<0.5	<0.5	<1.5
	09/08/05	31	1,000	--	580	<0.5	<0.5	<0.5	<1.5
	04/20/06	Well not sampled - monument flooded							
	09/13/06	38	1,000	--	440	<0.5	<0.5	<0.5	<1.5
	03/04/07	Well not sampled-under equipment							
	09/12/07	30	1,400	--	440	<1	<1	<1	<2
	04/08/08	<50.0	1,540	--	<758	<0.500	<0.500	<0.500	<1.00
	09/17/08	PVC cap was stuck/frozen							
	08/01/09	<50.0	<397	--	<397	<0.500	<1.00	<1.00	<3.00
	07/19/10	Well not sampled - Obstructed							
	09/22/11	Well not sampled - Obstructed							
	07/28/12	Well not sampled - Obstructed							
	08/01/13	**<100**	**<420**	**--**	**<1,000**	**<1.0**	**<1.0**	**<1.0**	**<3.0**
MW-25	06/25/02	LNAPL present - well not sampled							
	09/25/02	LNAPL present - well not sampled							
	04/29/03	LNAPL present - well not sampled							
	09/03/03	LNAPL present - well not sampled							
	03/10/04	LNAPL present - 0.05' - well not sampled							

Table 4
Groundwater Analytical Data

Former Chevron Bulk Plant 1001430
418 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5.0**	**1,000**	**700**	**10,000**
MW-25 Cont.	09/15/04	LNAPL present - 0.15' - well not sampled							
	04/19/05	LNAPL present - 0.16' - well not sampled							
	09/08/05	LNAPL present - 0.13' - well not sampled							
	04/20/06	LNAPL present - 0.15' - well not sampled							
	09/13/06	LNAPL present - 0.13' - well not sampled							
	03/14/07	LNAPL present - 0.01' - well not sampled							
	09/13/07	1,300	1,700	--	210	10	2	30	100
	04/10/08	1,840	3,620	--	<721	11.3	3.50	36.8	142
	09/17/08	2,660	4,550	--	<743	10.4	26.5	27.9	549
	07/27/09	LNAPL present - 0.04' - well not sampled							
	07/19/10	1,800	3,900	--	620	9	4	30	120
	09/22/11	LNAPL Globules present - well not sampled							
	07/28/12	LNAPL Globules present - well not sampled							
	08/01/13	**Well not sampled**							

Notes:

All results are reported in micrograms per liter (µg/L)
ADEC = Alaska Department of Conservation
GRO = Gasoline range organics, analyzed by GRO AK101
DRO = Diesel range organics, analyzed by DRO AK102
DRO SG = Diesel range organics, analyzed by DRO AK102
RRO = Residual range organics, analyzed by RRO AK103
Benzene, Toluene, Ethlybenzene, Total Xylenes by EPA Method 8021B or 8260B
GCL = ADEC 18 AA 75 Groundwater Cleanup Level
LNAPL = Light non-aqueous phase liquid
Bold Type = Results of most recent samping event
Highlighted concentrations are greater than the applicable ADEC GCL.
[D] = Duplicate sample
"--" = Analyte not included in sampling event
[1] = Preserved ambers were collected for the DRO/RRO analyses; however, the cooler containing these sample containers was lost in shipment.

[2] = Sample analysis performed past method-specified holding time.
[3] = TH-1 DRO/RRO results are not available for original sample. Sample bottles broke during transport.
< = Less than reporting limit

Table 5
Groundwater Analytical Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5**	**1,000**	**700**	**10,000**	**15**
AR-81	08/25/99	474	3,230	--	--	9.24	0.522	8.8	14.2	--
	08/15/00	247	3,600	--	--	3.62	<0.500	3.83	8.95	--
	06/25/02	<50.0	1,130	--	--	0.920	<0.500	0.520	<1.00	--
	09/24/02	212	4,550	--	--	7.56	2.11	5.14	8.95	--
	04/29/03	150	2,300	--	1,000	2.5	<0.5	1	1.8	--
	09/03/03	140	2,000	--	2,400	3.1	<0.5	1.6	2.8	--
	03/10/04	Well Frozen								
	09/16/04	69	2,200	--	3,200	1	<0.5	<0.5	<1.5	--
	04/19/05	110	2,000	--	3,700	0.8	<0.5	0.6	1.6	--
	09/07/05	68	1,400	--	1,200	0.5	<0.5	<0.5	<1.5	--
	04/20/06	95	3,100	--	160	0.6	<0.5	<0.5	<1.5	--
	09/12/06	100	900	--	310	0.7	<0.5	<0.5	<1.5	--
	03/15/07	100	1,800	--	250	<1	<1	<1	<2	--
	09/10/07	100	1,100	--	110	<1	<1	<1	<2	--
	04/10/08	121	4,290	--	<714	0.623	<0.500	<0.500	1.18	--
	09/16/08	91.8	2,270	--	<750	0.423	<0.500	<0.500	1.72	--
	07/31/09	126	1,630	--	496	<0.500	<1.00	<1.00	<3.00	--
	07/20/10	67	1,700	--	760	<0.5	<0.5	<0.5	<1.5	--
	09/22/11	<10	280	--	330	<0.5	<0.5	<0.5	<1.5	--
	07/27/12	50	1,300	86	250	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**<100**	**1,100**	**<420**	**<1,000**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**--**
AR-82	06/25/02	219	72,800	--	--	0.200	<0.500	0.525	6.33	--
	09/24/02	90.3	1,620	--	--	0.269	<0.500	<0.500	1.25	--
	04/29/03	3,500	390,000	--	<20,000	<2.5	<2.5	2.5	<25	--
	09/03/03	83	24,000	--	1,800	<0.5	1.1	2.9	8.6	--
	Well Removed from Sampling Program in September 2003									
AR-85	08/25/99	<50.0	606	--	--	<0.500	<0.500	<0.500	<1.00	--
	08/15/00	<50.0	634	--	--	<0.500	<0.500	<0.500	<1.00	--
	06/25/02	<50.0	964	--	--	<0.200	<0.500	<0.500	<1.00	--
	09/24/02	<50.0	958	--	--	0.268	<0.500	<0.500	<1.00	--
	04/29/03	<10	620	--	530	1	<0.5	<0.5	<1.5	--
	09/03/03	<10	640	--	510	0.5	<0.5	<0.5	<1.5	--
	09/03/03[D]	<10	640	--	570	<0.5	<0.5	<0.5	<1.5	--
	03/10/04	Well Beneath Snow bank								
	09/16/04	12	880	--	1,300	2.2	<0.5	<0.5	<1.5	--
	09/16/04[D]	13	900	--	1,300	2.2	<0.5	<0.5	<1.5	--
	04/19/05	Well buried and surrounded by equipment								
	09/07/05	<10	450	--	350	<0.5	<0.5	<0.5	<1.5	--
	9/7/2005[D]	<10	630	--	910	<0.5	<0.5	<0.5	<1.5	--
	04/20/06	<10	850	--	1,200	<0.5	<0.5	<0.5	<1.5	--
	09/12/06	<10	480	--	200	<0.5	<0.5	<0.5	<1.5	--
	03/15/07	Well not sampled-buried under snow bank								
	09/10/07	<10	450	--	220	<1	<1	<1	<2	--
	04/10/08	<50.0	951	--	<735	<0.500	<0.500	<0.500	<1.00	--
	04/10/08[D]	<50.0	522	--	<708	<0.500	<0.500	<0.500	<1.00	--
	09/16/08	<50.0	636	--	<750	0.275	<0.500	<0.500	<1.00	--
	07/31/09	<50.0	604	--	<391	<0.500	<1.00	<1.00	<3.00	--
	07/20/10	<10	360	--	170	<0.5	<0.5	<0.5	<1.5	--
	09/22/11	<10	280	--	260	<0.5	<0.5	<0.5	<1.5	--
	07/27/12	<10	450	<49	150	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**<100**	**710**	**<490**	**<1,200**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	--

Table 5
Groundwater Analytical Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5**	**1,000**	**700**	**10,000**	**15**
MW-1	10/23/03	97	8,200	--	--	<0.5	<0.5	<0.5	<1.5	--
	03/10/04	33	4,100	--	1,400	<0.5	<0.5	<0.5	<1.5	--
	03/10/04[D]	35	6,000	--	1,500	<0.5	<0.5	<0.5	<1.5	--
	09/16/04	29	5,100		1,600	<0.5	<0.5	<0.5	<1.5	--
	04/19/05	well not sampled - buried snow/ice (no access)								
	09/07/05	32	870	--	410	<0.5	<0.5	<0.5	<1.5	--
	04/20/06	well not sampled - covered with ice and ponded water								
	09/12/06	23	470	--	210	<0.5	<0.5	<0.5	<1.5	--
	03/15/07	<10	830	--	360	<1	<1	<1	<2	--
	09/10/07	20	520	--	160	<1	<1	<1	<2	--
	04/04/08	Well not sampled - monument underwater								
	09/17/08	<50.0	938	--	<750	0.369	<0.500	<0.500	1.46	--
	07/27/09	Well buried by gravel regrade								
	07/20/10	Well buried by gravel regrade								
	09/22/11	55	460	--	420	<0.5	<0.5	<0.5	<1.5	--
	07/27/12	17	1,000	500	1,300	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**<100**	**390**	**<380**	**<960**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	
MW-2	10/23/03	48,000	40,000	--	--	2,000	6,000	960	6,000	--
	03/10/04	LNAPL - 0.04' - well not sampled								
	09/16/04	LNAPL - 0.03' - well not sampled								
	04/19/05	LNAPL - 0.1' - well not sampled								
	09/07/05	LNAPL - 0.01' - well not sampled								
	04/20/06	well not sampled - covered with snow and gravel								
	09/12/06	8,000	22,000	--	<500	710	350	280	1,300	--
	03/15/07	6,600	7,100	--	170	500	100	200	900	--
	09/10/07	7,600	14,000	--	<200	700	600	200	1,400	--
	04/04/08	Well not sampled - absorbent sock frozen in well								
	09/16/08	21,900	29,300	--	<3,750	967	1,570	337	2,770	--
	07/27/09	Well recessed and buried in vault by gravel regrade								
	07/20/10	Well buried by gravel regrade								
MW-3	10/23/03	36,000	11,000	--	--	1,600	2,500	570	6,300	--
	03/10/04	56,000	44,000	--	3,000	2,100	4,800	1,100	9,800	--
	09/16/04	38,000	59,000	--	<2,000	1,900	3,100	810	6,600	--
	04/19/05	13,000	40,000	--	<2,000	630	600	340	2,100	--
	09/07/05	17,000	24,000	--	2,900	1,400	1,200	330	2,400	--
	04/20/06	19,000	15,000	--	<500	1,100	960	500	3,100	--
	09/12/06	19,000	15,000	--	<490	1,400	1,000	520	3,200	--
	03/16/07	22,000	7,900	--	490	1,300	900	600	3,700	--
	09/10/07	11,000	17,000	--	<490	900	500	400	2,100	--
	04/10/08	33,300	11,000	--	942	1,540	2,080	923	6,000	--
	09/17/08	19,100	31,100	--	<7,500	1,360	791	411	2,390	--
	09/17/08[D]	18,600	22,100	--	<3,750	1,370	777	406	2,350	--
	07/27/09	Well buried by gravel regrade								
	07/20/10	Well buried by gravel regrade								
	09/22/11	57	1,800	--	1,300	1.9	<0.5	<0.5	2.6	--
	07/27/12	360	1,200	240	1,600	14	1.2	13	47	--
	08/05/13	**734**	**2,500**	**570**	**<1,000**	**59.3**	**2.8**	**37.3**	**80.4**	**--**

Table 5
Groundwater Analytical Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5**	**1,000**	**700**	**10,000**	**15**
MW-4	10/22/03	LNAPL - well not sampled								
	03/10/04	LNAPL - 0.23' - well not sampled								
	09/16/04	LNAPL - 0.03' - well not sampled								
	04/19/05	well not sampled - covered with ice, monument filled with ice and water								
	09/07/05	68,000	98,000	--	<2,000	3,200	7,700	1,300	10,000	--
	04/20/06	LNAPL - 0.32' - well not sampled								
	09/12/06	64,000	26,000	--	<980	3,300	8,200	1,400	9,600	--
	03/16/07	LNAPL - 0.46' - well not sampled								
	09/10/07	60,000	27,000	--	<490	3,000	7,900	1,400	9,800	--
	04/10/08	Well not sampled - ice in well								
	09/17/08	LNAPL - 0.01' - well not sampled								
	07/27/09	LNAPL - 0.01' - well not sampled								
	07/20/10	40,000	80,000	--	<6800	2,200	5,300	990	7,200	26.1
Duplicate	07/20/10	33,000	42,000	--	<3,400	1,800	3,800	770	6,000	--
	09/22/11	38,000	24,000	--	3,900	2,400	4,400	1,200	7,600	--
Duplicate	09/22/11	36,000	21,000	--	4,600	2,300	4,000	1,100	6,800	--
	07/27/12	44,000	620,000	390,000	<33,000	2,100	4,900	1,200	8,400	--
Duplicate	07/27/12	42,000	190,000	--	--	2,000	4,700	1,100	8,100	--
	08/05/13	**67,900**	**37,400**	**27,100**	**1,400**	**3,120**	**7,190**	**1,250**	**10,800**	**--**
MW-5	10/23/03	10,000	36,000	--		1,000	420	100	1,000	--
	03/10/04	22,000	9,800	--	2,000	1,200	1,800	320	3,000	--
	09/16/04	22,000	7,100	--	<200	970	2,000	370	3,500	--
	04/19/05	well not sampled - covered with ice and ponded water								
	09/07/05	10,000	5,200	--	220	870	590	200	1,600	--
	04/20/06	well not sampled - covered with ice and ponded water								
	09/12/06	9,700	2,900	--	<100	980	230	220	1,700	--
	09/12/06[D]	9,500	3,000	--	<200	980	220	210	1,600	--
	03/15/07	16,000	6,900	--	<510	800	900	300	2,700	--
	03/15/07[D]	16,000	7,900	--	<510	800	900	300	2,700	--
	09/10/07	6,500	5,200	--	<200	700	100	100	1,100	--
	09/10/07[D]	6,000	5,000	--	<200	700	100	100	1,100	--
	04/04/08	Well not sampled - monument underwater								
	09/16/08	Well not sampled -could not locate								
	07/31/09	9,780 [1]	6,080	--	707	649	212	166	1,410	--
	07/31/09[D]	11,900 [1]	8,240	--	1,430	801 [1]	304 [1]	160 [1]	1,860 [1]	--
	07/20/10	4,100	6,500	--	530	570	6.7	81	300	12.1
	09/22/11	5,000	4,200	--	<670	530	35	150	660	--
	07/27/12	3,400	3,800	620	<660	410	49	54	420	--
	08/05/13	**1,310**	**4,100**	**1,300**	**<1,100**	**202**	**9.3**	**25.5**	**186**	**--**
MW-7	10/03/05	7,100	2,200	--	<97	1,700	<5.0	240	300	--
	04/20/06	4,600	2,300	--	200	450	6.9	170	480	--
	09/11/06	8,100	2,000	--	<98	1,800	9.4	280	450	--
	03/16/07	7,600	2,500	--	<100	1,400	9	200	300	--
	09/09/07	8,100	3,500	--	<200	1,800	10	300	700	--
	04/10/08	8,650	4,730	--	<750	1,700	3.08	234	452	--
	09/16/08	10,900	5,640	--	<750	1,830	<25.0	277	676	--
	07/31/09	8,570[1]	3,960	--	606	1,760	<25.0	255	481	--
	07/22/10	6,400	4,000	--	290	1,400	3.4	270	460	<0.05
	09/22/11	5,100	4,300	--	<670	1,200	2.6	210	350	--
	07/27/12	4,800	2,500	410	<340	1,000	7.4	190	260	--
	08/05/13	**Well not sampled - Vehicle obstruction**								

Table 5
Groundwater Analytical Data

Former Texaco Bulk Plant 211815
410 Driveway Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**1,500**	**1,100**	**5**	**1,000**	**700**	**10,000**	**15**
MW-8	10/03/05	2,900	1,500	--	720	390	39	96	290	--
	04/20/06	4,500	1,800	--	120	430	7.9	190	530	--
	09/11/06	3,300	1,400	--	300	410	16	120	330	--
	03/16/07	4,400	1,800	--	110	400	10	200	600	--
	09/09/07	2,200	2,000	--	210	300	20	100	300	--
	04/10/08	5,700	2,950	--	<750	458	6.92	191	525	--
	09/16/08	3,020	1,930	--	<750	269	6.58	95.1	186	--
	07/30/09	2,230 [1]	1,370	--	<391	180 [1]	<10.0 [1]	81.4 [1]	163 [1]	--
	07/21/10	4,400	2,300	--	250	290	7.3	140.0	340	9.9
	09/22/11	620	1,900	--	270	5.1	<0.5	0.9	4.0	--
	07/27/12	3,600	1,700	250	340	330	6.2	100	230	--
	08/05/13	**2,410**	**2,200**	**720**	**<1,000**	**292**	**3.9**	**92.3**	**174**	**--**
Duplicate	**08/05/13**	**2,900**	**2,000**	**--**	**<980**	**273**	**4.2**	**106**	**174**	**--**
MW-9	10/03/05	26	240	--	390	0.7	<0.5	<0.5	<1.5	--
	04/20/06	91	500	--	310	2.5	<0.5	<0.5	<1.5	--
	09/11/06	31	63	--	40	<0.5	<0.5	<0.5		--
	03/16/07	700	580	--	340	2.0	<1	<1	<2	--
	09/09/07	<10	110	--	93	<1	<1	<1	<2	--
	04/10/08	92.7	538	--	<750	1.61	<0.500	<0.500	<1.00	--
	09/16/08	<50.0	193	--	<750	1.86	<0.500	<0.500	<1.00	--
	07/30/09	58.8	484	--	<394	3.02	<1.00	<1.00	<3.00	--
	07/21/10	110	840	--	220	5.6	<0.5	<0.5	<1.5	3
	09/22/11	440	780	--	220	43	0.7	<0.5	10	--
	07/27/12	<10	100	<47	120	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**221**	**850**	**<430**	**1,100**	**37.9**	**<1.0**	**2.7**	**8.7**	
MW-10	10/03/05	760	1,200	--	520	64	2	5	21	--
	04/20/06	450	1,400	--	390	25	<0.5	<0.5	1.7	--
	04/20/06[D]	470	1,500	--	330	25	<0.5	<0.5	1.8	--
	09/11/06	670	1,300	--	250	64	0.8	0.5	2.7	--
	09/11/06[D]	660	1,200	--	240	63	0.8	0.5	2.7	--
	03/15/07	Well not sampled-buried under snow bank								
	09/09/07	700	1,500	--	240	70	<1	3	7	--
	04/10/08	498	1,150	--	<765	24.1	<0.500	<0.500	3.60	--
	09/16/08	706	2,220	--	<750	52.5	0.637	2.58	10.0	--
	07/27/09	Well buried by recent construction								
	07/21/10	Well buried by recent construction								

Notes:

All results are reported in micrograms per liter (µg/L)
ADEC = Alaska Department of Conservation
GRO = Gasoline range organics, analyzed by GRO AK101
DRO = Diesel range organics, analyzed by DRO AK102
DRO SG = Diesel range organics, analyzed by DRO AK102
RRO = Residual range organics, analyzed by RRO AK103
Benzene, Toluene, Ethylbenzene, Total Xylenes by EPA Method 8021B or 8260B
LNAPL = Light non-aqueous phase liquid
MTBE = Methyl tert-Butyl ether by EPA Method 8021B
GCL = ADEC 18 AA 75 Groundwater Cleanup Level
Highlighted concentrations are greater than the applicable ADEC GCL.
[D] = Duplicate sample
Bold Type = Results of most recent sampling event
"--" = Indicates analyte not included in sampling event
[1] = Sample required dilution due to high concentrations of target analyte.
< = Less than reporting limit

Table 6
Groundwater Analytical Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**NE**	**1,100**	**5.0**	**1,000**	**700**	**10,000**	**15**
GEI-1	10/07/02	31,700	218,000	--	--	5,630	6,770	704	3,860	--
	09/03/03	LNAPL present - 0.01' - well not sampled								
	04/23/04	26,600	11,200	--	--	2,910	5,300	582	2,990	--
	09/16/04	LNAPL present - 0.01' - well not sampled								
	04/20/05	35,300	307,000	--	--	4,300	6,300	649	3,620	--
	10/01/05	39,700	18,800	--	617	3,050	5,350	662	3,820	--
	04/18/06	Well not sampled - not accessible								
	09/17/06	31,000	29,000	--	<970	3,200	4,500	540	3,100	--
	03/17/07	LNAPL present - 0.05' - well not sampled								
	09/12/07	27,000	44,000	--	<2,200	2,600	3,600	400	2,600	--
	04/04/08	Well not sampled - ice in well								
	09/18/08	LNAPL present - 0.67' - well not sampled								
	07/27/09	LNAPL present - 0.43' - well not sampled								
	07/21/10	LNAPL present - 0.27' - well not sampled								
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**42,200**	**418,000**	**330,000**	**4,200**	**2,920**	**5,060**	**538**	**3,410**	--
GEI-2	10/07/02	170,000	86,500	--	--	15,100	56,200	3,810	22,000	--
	09/03/03	265,000	28,700	--	--	7,250	42,400	3,430	21,300	--
	04/23/04	150,000	17,900	--	--	7,500	39,700	3,140	17,900	--
	09/16/04	214,000	109,000	--	--	8,490	48,700	3,310	24,400	--
	04/20/05	196,000	88,700	--	--	7,520	49,800	3,490	23,100	--
	10/01/05	201,000	--	--	--	5,900	47,200	3,480	22,500	--
	04/18/06	219,000	33,100	--	904	5,510	46,200	3,380	24,100	--
	09/17/06	190,000	25,000	--	<970	6,000	42,000	3,300	22,000	--
	03/17/07	Well not sampled - buried under equipment								
	09/12/07	170,000	75,000	--	<1,100	4,900	37,000	3,100	20,000	--
	04/11/08	184,000	45,700	--	<3,750	4,530	49,300	3,520	22,200	--
	09/18/08	216,000	189,000	--	<16,700	5,530	45,300	3,950	28,300	--
	09/18/08[D]	151,000	207,000	--	<16,700	4,360	32,800	2,580	18,500	--
	07/30/09	220,000 [1]	70,600 [1]	--	6,910 [1]	5,430 [1,3]	96,200 [1,2]	3,980 [1]	24,170 [1,3]	--
	07/30/09[D]	200,000 [1]	71,400	--	5,280 [3]	4,990 [1]	45,700 [1]	3,610 [1]	24,380 [1,3]	--
	07/21/10	160,000	22,000	--	<1,300	2,900	41,000	3,500	23,000	10.4
Duplicate	07/21/10	160,000	52,000	--	<6,800	2,800	36,000	3,300	22,000	--
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**230,000**	**96,300**	**68,100**	**3,200**	**3,330**	**37,100**	**3,210**	**26,700**	--
GEI-3	10/07/02	36,600	101,000	--	--	178	3,070	339	12,000	--
	09/03/03	35,800	82,700	--	--	86.0	1,070	122	7,840	--
	04/23/04	16,600	25,200	--	--	66.0	758	63.1	5,920	--
	09/16/04	23,000	52,300	--	--	44.0	903	138	9,640	--
	09/16/04	--	--	--	--	35.2	835	77.7	6,610	--
	04/20/05	Well not sampled - not accessible								
	10/01/05	18,200	58,300	--	1,500	30.1	485	67.8	5,940	--
	10/01/05	19,100	--	--	--	<50.0	468	<50.0	6,280	--
	04/18/06	21,700	70,300	--	1,220	28.3	1,290	173	6,970	--
	09/16/06	16,000	62,000	--	<2,000	20.0	280	61	5,100	--
	03/17/07	32,000	42,000	--	<2,000	30	1,200	200	6,700	--
	09/11/07	17,000	70,000	--	<2,000	20	800	200	5,500	--
	04/11/08	30,500	40,800	--	<3,540	<100	1,460	359	8,440	--
	09/18/08	20,300	97,400	--	<7,500	16.8	484	131	6,380	--
	07/28/09	16,900 [1]	37,200	--	2,720	6.10 [1]	202 [1]	89.2 [1]	4,770 [1]	--
	07/21/10	23,000	92,000	--	<14,000	16	870	200	6,400	--
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**8,620**	**188,000**	**141,000**	**5,200**	**<5.0**	**144**	**63.7**	**2,100**	

Table 6
Groundwater Analytical Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**NE**	**1,100**	**5.0**	**1,000**	**700**	**10,000**	**15**
GEI-4	10/07/02	LNAPL present - 0.67' - well not sampled								
	09/03/03	LNAPL present - 0.01' - well not sampled								
	04/23/04	3,720	30,200	--	--	30.7	76.7	55.5	76.7	--
	09/16/04	LNAPL present - 0.01' - well not sampled								
	04/20/05	807	195,000	--	--	15.1	3.83	48.2	3.83	--
	10/01/05	2,560	44,000	--	601	13.4	<1.00	52.3	<1.00	--
	04/18/06	1,180	95,700	--	<8,060	15.2	2.18	66.4	2.18	--
	04/18/06	1,010	--	--	--	14.4	<0.500	53.6	<0.500	--
	09/16/06	1,400	39,000	--	<960	16	1.8	40	190	--
	03/17/07	1,400	54,000	--	<1,900	20	2	40	200	--
	09/11/07	2,700	100,000	--	<2,100	10	<10	70	300	--
	04/11/08	1,780	192,000	--	<4,120	15.0	<2.50	56.8	229	--
	04/11/08[D]	2,140	215,000	--	<3,680	13.4	<10.0	60	268	--
	09/18/08	LNAPL present - 0.01' - well not sampled								
	07/29/09	1,190 [1]	1,620,000 [1]	--	<39,100 [1]	5.10 [1]	<10.0 [1]	25.0 [1]	147 [1]	--
	07/21/10	440	24,000	--	<3,300	0.9	<0.5	8.9	35	--
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**1,290**	**159,000**	**122,000**	**1,600**	**7.7**	**2.9**	**42.0**	**238**	--
GEI-5	10/07/02	12,400	47,600	--	--	2,310	813	119	1,660	--
	10/07/02	10,800	--	--	--	2,360	841	127	1,660	--
	09/03/03	10,100	68,000	--	--	1,420	205	32.9	650	--
	04/23/04	Well not sampled - not accessible.								
	09/16/04	12,000	18,000	--	--	2,330	549	66.3	1,200	--
	04/20/05	7,050	71,500	--	--	1,240	444	44.0	1,040	--
	10/01/05	10,700	67,400	--	2,020	1,430	239	37.8	922	--
	04/18/06	--	--	--	--	--	--	--	--	--
	09/16/06	6,200	22,000	--	<500	910	290	45	850	--
	03/17/07	Well not sampled due to damage								
	09/11/07	Well not sampled due to damage								
	04/04/08	Well not sampled - well underwater								
	09/18/08	LNAPL present - 0.01' - well not sampled								
	07/29/09	Well dry								
	07/22/10	270	3,500	--	2,500	13	4.9	<0.5	9.7	--
	09/24/11	1,400	6,200	--	950	290	14	1.5	35	--
	07/25/12	1,600	100,000	99,000	28,000	270	24	4	74	--
	08/02/13	**Well not sampled - Dry**								
GEI-6	10/07/02	58,800	5,790	--	--	1.26	1.95	<0.500	2.99	--
	09/03/03	<80	3,520	--	--	0.717	<0.500	<0.500	<1.00	--
	04/23/04	Well not sampled - not accessible.								
	09/16/04	58.8	7,580	--	--	0.758	<0.500	<0.500	1.72	--
	04/20/05	Well not sampled - not accessible.								
	10/01/05	<50	2,180	--	1,140	0.768	<0.500	<0.500	<1.50	--
	04/18/06	Well not sampled - not accessible.								
	09/16/06	51	3,400	--	2,300	1.0	<0.5	<0.5	<1.5	--
	03/17/07	<10	800	--	770	<1	<1	<1	<2	--
	09/11/07	20	2,200	--	1,000	<1	<1	<1	<2	--
	04/04/08	Well not sampled - well underwater								
	09/18/08	Well not sampled - unable to locate								
	07/30/09	<50.0	5,260	--	2,120	<0.500	<1.00	<1.00	<3.00	--
	07/22/10	Well not sampled- under water								
	09/24/11	<10	2,700	--	2,200	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	<10	3,000	81	1,800	<0.5	<0.5	<0.5	<1.5	--
Duplicate	07/25/12	<10	--	--	--	<0.5	<0.5	<0.5	<1.5	--
	08/02/13	**<100**	**4,100**	**610**	**1,700**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	

Table 6
Groundwater Analytical Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**NE**	**1,100**	**5.0**	**1,000**	**700**	**10,000**	**15**
GEI-7	09/03/03	LNAPL present - 0.01' - well not sampled								
	04/23/04	LNAPL present - 0.41' - well not sampled								
	09/16/04	LNAPL present - 0.09' - well not sampled								
	04/20/05	LNAPL present - 0.93' - well not sampled								
	10/01/05	15,400	98,700	--	<4,240	299	2,180	246	2,560	--
	04/18/06	Well not sampled - not accessible.								
	09/17/06	15,000	110,000	--	<2,000	360	2,000	250	2,400	--
	03/17/07	Well not sampled - buried under equipment								
	09/12/07	13,000	79,000	--	<2,200	300	1,800	300	2,100	--
	04/04/08	Well not sampled - ice in well								
	09/18/08	16,600	295,000	--	<15,000	459	2,710	257	4,450	--
	07/30/09	19,900 [1]	110,000 [1]	--	<4,030 [1]	395 [1,3]	2,260 [1,3]	267 [1,3]	2,830 [1,3]	--
	07/30/09[D]	19,800 [1]	100,000 [1]	--	<4,000 [1]	371 [1,3]	2,110 [1,3]	244 [1]	2,800 [1]	--
	07/22/10	14,000	120,000	--	<14,000	280	1,900	230	2,500	6.7
Duplicate	07/22/10	14,000	140,000	--	<14,000	290	2,000	240	2,500	--
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**16,400**	**175,000**	**166,000**	**2,700**	**186**	**1,530**	**200**	**2,400**	
GEI-8	09/03/03	11,000	83,900	--	--	38.4	342	229	2,350	--
	04/23/04	8,850	107,000	--	--	152	834	161	1,930	--
	09/16/04	10,700	515,000	--	--	22.7	172	210	3,500	--
	04/20/05	6,920	571,000	--	--	14.9	189	136	1,740	--
	10/01/05	7,520	59,100	--	983	15.6	91.0	105	1,710	--
	04/18/06	4,870	43,600	--	1,110	14.8	131	148	1,620	--
	09/16/06	4,200	27,000	--	<960	14	93	89	1,200	--
	03/17/07	4,900	11,000	--	290	20	100	100	1,400	--
	09/11/07	4,000	48,000	--	<1000	20	100	100	1,300	--
	04/04/08	Well not sampled - inaccessible								
	09/18/08	Well not sampled - inaccessible								
	07/29/09	6,760	42,800	--	1,930	8.60	39.6	112	1,090	--
	07/22/10	4,900	280,000	--	<13,000	9.4	53	96	1,400	--
	09/24/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**11,000**	**1,740,000**	**1,330,000**	**3,900**	**<5.0**	**49.5**	**111**	**2,160**	--
GEI-9	09/03/03	LNAPL present - 0.01' - well not sampled								--
	04/23/04	1,030	51,600	--	--	5.01	29.0	12.2	161	--
	09/16/04	1,490	276,000	--	--	1.58	2.63	6.73	59.3	--
	04/20/05	1,480	517,000	--	--	1.70	<0.500	7.31	41.9	--
	10/01/05	1,090	93,900	--	<4,030	1.44	<0.500	5.68	43.3	--
	04/18/06	881	97,800	--	<7,940	2.02	<0.500	8.10	57.0	--
	09/16/06	410	56,000	--	<2,000	2.1	<0.5	6.6	36	--
	03/17/07	600	17,000	--	290	3	<1	10	70	--
	09/11/07	400	80,000	--	<1,900	<10	<10	<10	60	--
	04/11/08	397	34,100	--	<3,610	<2.50	<2.50	9.61	42.7	--
	09/18/08	491	113,000	--	<7,430	1.40	<2.50	5.94	35.1	--
	07/28/09	464	58,400	--	3,180	0.850	<1.00	7.31	26.5	--
	07/22/10	Well not sampled - Unable to locate								
	09/24/11	LNAPL Globules present - well not sampled								
	07/25/12	3,200	30,000	34,000	<1,400	0.9	<0.5	11	66	--
	08/02/13	**419**	**124,000**	**84,900**	**4,300**	**<1.0**	**<1.0**	**3.3**	**15.4**	--

Table 6
Groundwater Analytical Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**NE**	**1,100**	**5.0**	**1,000**	**700**	**10,000**	**15**
GEI-10	10/01/05	551	45,800	--	412	<0.500	<0.500	7.71	42.9	--
	04/18/06	689	43,400	--	510	<0.500	<0.500	40.0	135	--
	09/16/06	500	23,000	--	<500	<0.5	<0.5	13.0	53	--
	09/16/06[D]	510	22,000	--	<500	<0.5	<0.5	13.0		--
	03/17/07	Well not sampled - unable to locate								
	09/09/07	700	19,000	--	<200	<1	<1	10	40	--
	09/09/07[D]	400	32,000	--	<410	<10	<10	10	50	--
	04/12/08	640	18,700	--	<3,570	<2.50	<2.50	16.4	66.9	--
	09/18/08	256	19,300	--	<4,170	<1.00	<2.50	<2.50	8.48	--
	07/30/09	608	3,320	--	<394	<0.500	<1.00	7.64	31.9	--
	07/22/10	520	74,000	--	<6,800	<0.5	<2.0	6.5	27	--
	09/24/11	110	17,000	--	<3,400	<0.5	<0.5	0.7	3.8	--
Duplicate	09/24/11	290	3,900	--	<660	<0.5	<0.5	1.1	4.6	--
	07/25/12	330	40,000	19,000	<3,400	<0.5	<0.5	3.5	13	--
Duplicate	07/25/12	370	--	--	--	<0.5	<0.5	4.1	16	--
	08/02/13	**151**	**59,100**	**55,000**	**<1,000**	**<1.0**	**<1.0**	**1.9**	**7.8**	
GEI-11	10/01/05	161,000	61,900	--	2,810	8,060	21,500	1,340	8,570	--
	04/18/06	--	--	--	--	--	--	--	--	--
	09/17/06	92,000	55,000	--	<3,900	6,300	19,000	1,500	9,100	--
	03/17/07	LNAPL present - 0.02' - well not sampled								
	09/12/07	100,000	93,000	--	<1,900	5,100	18,000	1,900	11,000	--
	04/12/08	101,000	439,000	--	<3,640	5,630	21,300	1,930	11,100	--
	09/18/08	103,000	71,100	--	<7,080	5,530	20,800	1,560	10,200	--
	07/27/09	No current access to well - under permit stipulation								
	07/21/10	No current access to well - under permit stipulation								
	09/24/11	No current access to well - under permit stipulation								
	07/25/12	No current access to well - under permit stipulation								
	08/02/13	**No current access to well - under permit stipulation**								
GEI-12	10/01/05	9,920	43,900	--	<410	233	478	290	2,040	--
	04/18/06	5,480	68,100	--	466	136	250	158	1,110	--
	09/16/06	6,200	56,000	--	<1,000	130	300	150	1,100	--
	03/17/07	LNAPL present - 0.04' - well not sampled								
	09/09/07	5,000	63,000	--	<2,000	100	300	100	1,100	--
	04/12/08	4,900	126,000	--	<3,610	86.3	102	145	979	--
	09/18/08	8,850	85,300	--	<7,080	334	598	214	1,740	--
	07/29/09	8,540 [1]	42,800	--	471	72.4 [1]	256 [1]	166 [1]	1,190 [1]	--
	07/22/10	6,800	77,000	--	<6,700	99	480	170	1,300	--
	09/24/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/02/13	**Well obstructed - not sampled**								
MW-1	09/23/11	37	110	--	<67	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	35	190	<49	100	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**<100**	**<430**	**--**	**<1,100**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**--**
Duplicate	**08/05/13**	**<100**	**<430**	**--**	**<1,100**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**--**
MW-2	10/01/05	94.4	<403	--	<403	<0.500	<0.500	<0.500	<1.50	--
	04/18/06	<500	918	--	<391	<0.500	<0.500	<0.500	<1.50	--
	09/15/06	14	260	--	490	<0.5	<0.5	<0.5	<1.5	--
	03/17/07	20	470	--	310	<1	<1	<1	<2	--
	09/09/07	<10	160	--	87	<1	<1	<1	<2	--
	09/09/07[D]	<10	210	--	160	<1	<1	<1	<2	--
	04/12/08	<50.0	1,130	--	<708	<0.500	<0.500	<0.500	<1.00	--
	09/18/08	<50.0	613	--	<743	0.210	<0.500	<0.500	<1.00	--
	07/30/09	12,100[1]	8,470[1]	--	1,100[1]	1,220[1]	61.0[1]	263[1]	1,680[1]	--
	07/22/10	13	300	--	140	<0.5	<0.5	<0.5	<1.5	
	09/23/11	25	710	--	360	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	33	200	<48	79	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**<100**	**<450**	**--**	**<1,100**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	

Table 6
Groundwater Analytical Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**NE**	**1,100**	**5.0**	**1,000**	**700**	**10,000**	**15**
MW-3	07/22/10	16	330	--	1,900	<0.5	<0.5	<0.5	<1.5	--
	09/23/11	400	7,500	--	<1,300	22	9.3	6.9	63	--
	07/25/12	6,100	7,200	1,800	1,700	630	24	180	1,200	--
	08/05/13	**2,110**	**3,500**	**1,300**	**<1,200**	**298**	**8.2**	**43.2**	**292**	**--**
MW-4	10/01/05	--	--	--	--	--	--	--	--	--
	04/18/06	<500	<407	--	<407	<0.500	<0.500	<0.500	<1.50	--
	09/15/06	<10	98	--	200	<0.5	<0.5	<0.5	<1.5	--
	03/16/07	60	85	--	110	30	<1	<1	<2	--
	09/09/07	<10	65	--	140	<1	<1	<1	<2	--
	04/11/08	<50.0	<106	--	<798	<0.500	<0.500	<0.500	<1.00	--
	09/18/08	<50.0	164	--	<743	<0.200	<0.500	<0.500	<1.00	--
	07/30/09	<50.0	<391	--	803	<0.500	<1.00	<1.00	<3.00	--
	07/22/10	<10	62	--	93	<0.5	<0.5	<0.5	<1.5	--
	09/23/11	<10	68	--	69	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	<10	<50	<50	<70	<0.5	<0.5	<0.5	<1.5	--
	08/05/13	**<100**	**<450**	**--**	**<1,100**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**--**
MW-5	10/01/05	16,200	51,500	--	668	245	1,620	270	3,070	--
	04/18/06	21,500	114,000	--	<7,810	287	3,220	498	3,910	--
	09/15/06	18,000	42,000	--	<1,000	220	1,700	370	2,800	--
	09/15/06[D]	18,000	77,000	--	<1,900	230	1,900	410	3,400	--
	03/17/07	Well not sampled - Sheen present								
	09/12/07	14,000	53,000	--	<990	200	1,900	400	2,700	--
	04/12/08	29,700	165,000	--	<3,540	152	2,530	627	6,030	--
	09/18/08	29,900	58,600	--	<7,430	163	1,080	464	4,900	--
	07/30/09	16,500[1]	10,000[1]	--	492[1]	84.7[1]	977[1]	367[1]	2,130[1]	--
	07/22/10	22,000	380,000	--	<17,000	140	1,600	360	4,000	--
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	8,000	450,000	480,000	<18,000	56	640	310	2,300	--
	08/02/13	**8,610**	**146,000**	**119,000**	**1,600**	**84.7**	**764**	**179**	**1,860**	**--**
MW-6	10/01/05	Well not sampled - not accessible.								
	04/18/06	624	1,120	--	<391	138	<0.500	10.0	7.50	--
	09/15/06	39	210	--	260	8.1	<0.5	1.0	<1.5	--
	03/16/07	200	280	--	170	30	<1	1	<2	--
	03/16/07[D]	100	250	--	180	30	<1	1	<2	--
	09/11/07	40	300	--	280	7	<1	<1	<2	--
	04/11/08	77.1	1,100	--	<750	17.4	<0.500	<0.500	<1.00	--
	09/18/08	<50.0	398	--	<743	0.525	<0.500	<0.500	<1.00	--
	07/30/09	<50.0	<403	--	<403	2.44	<1.00	<1.00	<3.00	--
	07/22/10	160	390	--	150	15	2.1	1.6	12	--
	09/23/11	<10	100	--	150	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	<10	180	<50	140	1	<0.5	<0.5	<1.5	--
	08/02/13	**<100**	**550**	**<450**	**<1,100**	**<1.0**	**<1.0**	**<1.0**	**<3.0**	**--**
MW-13	08/03/07	40	44	--	51	1	<1	<1	<2	--
	09/09/07	70	70	--	63	2	<1	<1	<2	--
	04/04/08	Well not sampled - ice in well								
	09/18/08	62.7	151	--	<708	0.814	<0.500	<0.500	<1.00	--
	07/27/09	No current access to well - under permit stipulation								
	07/22/10	No current access to well - under permit stipulation								
	09/24/11	No current access to well - under permit stipulation								
	07/25/12	No current access to well - under permit stipulation								
	08/02/13	**No current access to well - under permit stipulation**								
MW-14	09/22/10	200	900	--	260	14	<0.5	<0.5	2	--
	09/23/11	300	820	--	400	12	<0.5	2.8	8.9	--
	07/25/12	360	540	60	150	14	<0.5	<0.5	3.9	--
	08/05/13	**226**	**600**	**<400**	**<1,000**	**10.5**	**<1.0**	**3.1**	**7.4**	**--**

Table 6
Groundwater Analytical Data

Former Unocal Bulk Plant 306456
328 1/2 Illinois Street
Fairbanks, Alaska

Monitoring Well ID	Date	GRO	DRO	DRO SG	RRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Dissolved Lead
ADEC GCL		**2,200**	**1,500**	**NE**	**1,100**	**5.0**	**1,000**	**700**	**10,000**	**15**
MW-15	09/22/10	38,000	40,000	--	<3,900	1,300	5,700	920	6,700	--
	09/23/11	LNAPL Globules present - well not sampled								
	07/25/12	LNAPL Globules present - well not sampled								
	08/05/13	**73,300**	**68,500**	**63,700**	**<1,200**	**1,520**	**6,730**	**1,180**	**8,480**	--
K-5	08/25/99	LNAPL present - 0.29' - well not sampled								
	08/16/00	4,140	133,000	--	<4,030	<12.5	<12.5	<19.2	<54.0	--
	10/01/05	18,100	86,600	--	<4,030	<0.500	<0.500	2.26	7.56	--
	04/18/06	--	--	--	--	--	--	--	--	--
	09/27/06	610	17,000	--	<480	<0.5	<0.5	0.5	<1.5	--
	03/17/07	Well not sampled - unable to remove cover								
	09/09/07	1,800	110,000	--	<1,900	<1	<1	2	10	--
	04/12/08	195	24,000	--	<3,680	<0.500	<0.500	0.758	2.80	--
	09/18/08	484	69,700	--	<7,500	<0.200	<0.500	0.749	4.38	--
	07/29/09	493	9,160	--	397	<0.500	<1.00	<1.00	4.16	--
	07/22/10	360	78,000	--	<6,900	<0.5	<0.5	1	6	--
	09/24/11	86	11,000	--	<680	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	Well not sampled - inaccessible								
	08/05/13	**Well not sampled**								
K-7	10/01/05	<50	421	--	<417	<0.500	<0.500	<0.500	<1.50	--
	04/1806	429	--	--	--	<0.500	<0.500	1.71	5.28	--
	09/16/06	<10	72	--	250	<0.5	<0.5	<0.5	<1.5	--
	03/17/07	Well not sampled - unable to locate								
	09/09/07	<100	71	--	240	<10	<10	<10	<20	--
	04/04/08	Well not sampled - ice in well								
	09/18/08	<50.0	<100	--	<750	<0.200	<0.500	<0.500	<1.00	--
	07/29/09	<50.0	416	--	504	<0.500	<1.00	<1.00	<3.00	--
	07/22/10	<10	62	--	100	<0.5	<0.5	<.05	<1.5	--
	09/24/11	<10	71	--	140	<0.5	<0.5	<0.5	<1.5	--
	07/25/12	Well not sampled - inaccessible								
	08/05/13	**Well not sampled - inaccessible**								

Notes:

All results are reported in micrograms per liter (µg/L)
ADEC = Alaska Department of Conservation
GRO = Gasoline range organics, analyzed by GRO AK101
DRO = Diesel range organics, analyzed by DRO AK102
DRO SG = Diesel range organics, analyzed by DRO AK102
RRO = Residual range organics, analyzed by RRO AK103
Benzene, Toluene, Ethylbenzene, Total Xylenes by EPA Method 8021B or 8260B
Dissolved lead by EPA Method 200.8
EDB = 1,2-Dibromoethane by EPA Method 8260B
MTBE = Methyl tert-Butyl ether by EPA Method 8021B
LNAPL = Light non-aqueous phase liquid
GCL = ADEC 18 AAC 75 Groundwater Cleanup Level
Bold Type = Results of most recent sampling event
Highlighted concentrations are greater than the applicable ADEC GCL.
NE = Not Established
[D] = Duplicate sample
"--" = Analyte not included in sampling event
[1] = Sample required dilution due to high concentrations of target analyte.
[2] = Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
[3] = Concentration reported by the EPA 8260B method was greater than concentration reported by the AK 101 method. The listed concentrations are results from the 8260B analysis.
< = Less than reporting limit

Table 7
Groundwater Volatile Organic Compounds (VOCs) Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328 1/2 Illinois Street
Fairbanks, Alaska

EPA Method:		8011	8260B																			8021B
Well	Sample Date	1,2-Dibromoethane	1,2-Dibromoethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1,1-Trichloroethane	Carbon Tetrachloride	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Trichlorofluoromethane	Trichloroethene	Tetrachloroethene	Isopropylbenzene	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	m+p-Xylene	n-Propylbenzene	o-Xylene	Mmethyl Tertiary Butyl Ether (MTBE)
ADEC GCL		0.05	0.05	7,300	7	200	5	5	70	100	730	1,800	1,800	11,000	5	5	3,700	5	11,000	NE	370	NE	470
Former Chevron 1001430																							
TH-13	10/03/05	<0.0094	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/14/06	<0.0095	<0.5	<0.5	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	<2.5
	03/15/07	<0.0097	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/13/07	<0.0098	--	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	1	<0.8	--	--	--	--	--	--	--
	04/10/08	<0.010	<1.00	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	--	--	--	--	--	--
	09/17/08	<0.010	--	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	--	--	--	--	--	--
TH-17	10/03/05	<0.0088	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/14/06	<0.0096	<0.5	<0.5	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	<10
	03/15/07	<0.0097	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	1	<0.8	--	--	--	--	--	--	--
	09/13/07	<0.0097	--	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	1	<0.8	--	--	--	--	--	--	--
	04/04/08	Well not sampled - monument underwater																					
	09/17/08	<0.010	--	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	--	--	--	--	--	--
	09/17/08[D]	<0.010	--	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	--	--	--	--	--	--
Trip Blank	10/03/05	<0.0094	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	04/20/06	<0.0096	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	<2.5
	09/13/06	<0.0098	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	03/14/07	<0.0099	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/12/07	<0.0099	--	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
Former Texaco 211815																							
AR-81	04/20/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5
	07/20/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5
AR-85	04/20/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5
	07/20/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5
MW-2	03/16/07	<0.0099	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/10/07	<0.0099	--	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
MW-3	10/03/05	<0.0094	<5	<5	--	<4	<5	<5	--	--	--	--	--	--	<5	<4	--	--	--	--	--	--	--
	04/20/06	<0.0097	<1	<2	--	<2	<2	<1	--	--	--	--	--	--	3	<2	--	--	--	--	--	--	<100
	09/12/06	<0.0096	<3	<5	--	<4	<5	<3	--	--	--	--	--	--	7	<4	--	--	--	--	--	--	<25
	03/16/07	<0.0097	<1	<2	--	<2	<2	<1	--	--	--	--	--	--	<2	<2	--	--	--	--	--	--	--
	09/10/07	<0.0099	--	<2	--	<2	<2	<1	--	--	--	--	--	--	<2	<2	--	--	--	--	--	--	--
	04/10/08	0.01	<1.00	<1.00	--	<1.00	<1.00	10.2	--	--	--	--	--	--	2.33	<1.00	--	--	--	--	--	--	--
	09/17/08	0.014	--	<1.00	--	<1.00	<1.00	9.13	--	--	--	--	--	--	1.44	<1.00	--	--	--	--	--	--	--
	09/17/08[D]	0.015	--	<1.00	--	<1.00	<1.00	9.32	--	--	--	--	--	--	<1.00	<1.00	--	--	--	--	--	--	--
	09/22/11	--	<0.5	<1	<0.8	<0.8	<1	<0.5	<0.8	<0.8	<1	<1	<1	3	<1	<0.8	<1	--	--	1	<1	2	<2.5
	07/27/12	<0.0095	--	--	--	--	--	0.6	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--
	08/05/13	**<0.01**	**--**	**--**	**--**	**--**	**--**	**<1.0**	**--**	**--**	**14.1**	**--**	**--**	**2.5**	**<0.40**	**<1.0**	**4.9**	**--**	**--**	**--**	**11**	**--**	**<1.0**

Table 7
Groundwater Volatile Organic Compounds (VOCs) Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328 1/2 Illinois Street
Fairbanks, Alaska

EPA Method:		8011	8260B																			8021B
Well	Sample Date	1,2-Dibromoethane	1,2-Dibromoethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1,1-Trichloroethane	Carbon Tetrachloride	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Trichlorofluoromethane	Trichloroethene	Tetrachloroethene	Isopropylbenzene	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	m+p-Xylene	n-Propylbenzene	o-Xylene	Mmethyl Tertiary Butyl Ether (MTBE)
ADEC GCL		**0.05**	**0.05**	**7,300**	**7**	**200**	**5**	**5**	**70**	**100**	**730**	**1,800**	**1,800**	**11,000**	**5**	**5**	**3,700**	**5**	**11,000**	**NE**	**370**	**NE**	**470**
MW-4	10/03/05	0.025	<10	<10	--	<8	<10	<10	--	--	--	--	--	--	<10	<8	--	--	--	--	--	--	--
	04/20/06	LNAPL present - 0.32' - well not sampled																					
	09/12/06	0.039	<3	<5	--	<4	<5	<3	--	--	--	--	--	--	<5	<4	--	--	--	--	--	--	220
	07/20/10	--	--	--	--	--	--	--	--	--	430	--	--	--	<5	<4	--	--	--	--	--	--	74
	09/22/11	--	<3	<5	<4	<4	<5	68	<4	<4	260	1,300	400	<10	<5	<4	70	--	--	6,700	160	2,300	<200
	07/27/12	<0.0095	--	--	--	--	--	59	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--
	08/05/13	**0.045**	**--**	**--**	**--**	**--**	**--**	**<50**	**--**	**--**	**342**	**1,580**	**441**	**--**	**<20**	**<50**	**57.1**	**--**	**--**	**--**	**125**	**--**	**83**
MW-5	07/20/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12
MW-7	10/03/05	<0.0094	<3	<3	--	<2	<3	<3	--	--	--	--	--	--	<3	<2	--	--	--	--	--	--	--
	04/20/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50
	07/31/09	--	--	<10.0[1]	--	--	--	<20.0[1]	--	--	--	--	--	--	--	<10.0[1]	--	--	--	--	--	--	29.5
	07/20/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27
	09/22/11	--	<1	<2	<2	<2	<2	<1	<2	<2	64	160	32	<4	<2	<2	22	--	--	310	41	3	<23
	07/27/12	<0.0095	--	--	--	--	--	30	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--
	08/05/13	**Vehicle obstruction - well not sampled**																					
MW-8	10/03/05	0.026	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	04/20/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<100
	07/30/09	--	--	<1.00	--	--	--	<2.00	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	7.03
	07/21/10	--	--	--	--	--	--	<0.8	--	--	--	--	--	--	--	<0.8	--	--	--	--	--	--	<50
	09/22/11	--	<0.5	<1	<0.8	<0.8	<1	<0.5	<0.8	<0.8	<1	1	4	<2	<1	<0.8	<1	--	--	3	<1	<0.5	<2.5
	07/27/12	<0.0095	--	--	--	--	--	11	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--
	08/05/13	**<0.0095**	**--**	**--**	**--**	**--**	**--**	**<2.0**	**--**	**--**	**29.1**	**92**	**40.9**	**--**	**<0.8**	**<2.0**	**13.4**	**--**	**--**	**--**	**30.1**	**--**	**3.4**
MW-9	10/03/05	<0.0094	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	04/20/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5
	07/30/09	--	--	<1.00	--	--	--	<2.00	--	--	--	--	--	--	--	<1.00	--	--	--	--	--	--	<1.00
	07/21/10	--	--	--	--	--	--	<0.8	--	--	--	--	--	--	--	<0.8	--	--	--	--	--	--	<2.5
	09/22/11	--	<0.5	<1	<0.8	<0.8	<1	2	<0.8	<0.8	<1	1	<1	<2	<1	<0.8	1	--	--	5	<1	3	11
	07/27/12	<0.0095	--	--	--	--	--	<0.5	--	--	--	--	--	--	<1	--	--	--	--	--	--	--	--
	08/05/13	**<0.0097**	**--**	**--**	**--**	**--**	**--**	**<0.5**	**--**	**--**	**<4.0**	**1.9**	**--**	**--**	**<0.4**	**<1.0**	**1.7**	**--**	**--**	**--**	**--**	**--**	**<1.0**
MW-10	10/03/05	<0.0094	<1	<1	--	<0.8	<1	<1	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	04/20/06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10
	04/20/06[D]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10
Trip Blank	09/11/06	<0.0098	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	03/15/07	--	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/09/07	<0.0099	<1	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--

Table 7
Groundwater Volatile Organic Compounds (VOCs) Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328 1/2 Illinois Street
Fairbanks, Alaska

EPA Method:		8011	8260B																			8021B
Well	Sample Date	1,2-Dibromoethane	1,2-Dibromoethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1,1-Trichloroethane	Carbon Tetrachloride	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Trichlorofluoromethane	Trichloroethene	Tetrachloroethene	Isopropylbenzene	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	m+p-Xylene	n-Propylbenzene	o-Xylene	Mmethyl Tertiary Butyl Ether (MTBE)
ADEC GCL		0.05	0.05	7,300	7	200	5	5	70	100	730	1,800	1,800	11,000	5	5	3,700	5	11,000	NE	370	NE	470
Former Unocal Bulk Plant 306456																							
GEI-2	09/17/06	120	140	<1.0	--	<0.8	<1.0	<0.5	--	--	--	--	--	--	<1.0	<0.8	--	<1	--	--	--	--	<500
	09/12/07	96	--	<2	--	<2	<2	<1	--	--	--	--	--	--	<2	<2	--	<2	--	--	--	--	--
	04/11/08	73.3	--	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	<1.00	--	--	--	--	--
	09/18/08	152	--	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	<1.00	--	--	--	--	--
	09/18/08[D]	146	--	<1.00	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	--	--	--	--	--	--
	07/30/09	120 [3]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<1,000[2]	2,120[2]	510[2]	<500[2]	<500[2]	<500[2]	--	--	--	--	--	--	<500[2]
	07/30/09[D]	131 [3]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<500[2]	<1,000[2]	2,360[2]	565[2]	<500[2]	<500[2]	<500[2]	--	--	--	--	--	--	<500[2]
	07/22/10	49	--	--	--	--	--	<40	--	--	--	--	--	--	<50	<40	--	--	--	--	--	--	--
	08/02/13	**89.8**	--	--	--	--	--	--	--	--	--	--	--	--	**<40**	**<100**	--	--	--	--	--	--	**<100**
GEI-7	09/12/07	3.1	--	2	--	<0.8	<1	<0.5	--	--	--	--	--	--	3	11	--	3	--	--	--	--	--
	09/18/08	13.8	--	1.88	--	<1.00	<1.00	9.27	--	--	--	--	--	--	3.84	16.5	--	3.84	--	--	--	--	--
	07/30/09	4.75 [3]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	407[2]	681[2]	231[2]	<100[2]	<100[2]	<100[2]	--	--	--	--	--	--	<100[2]
	07/30/09[D]	4.51 [3]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	<100[2]	659[2]	792[2]	254[2]	<100[2]	<100[2]	<100[2]	--	--	--	--	--	--	<100[2]
	07/22/10	3.3	--	--	--	--	--	14	--	--	--	--	--	--	<10	15	--	--	--	--	--	--	--
	08/02/13	**2.9**	--	--	--	--	--	--	--	--	--	--	--	--	**<4.0**	**18.8**	--	--	--	--	--	--	**<10**
GEI-9	03/16/07	0.014	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	<1	--	--	--	--	--
GEI-11	09/17/06	1.9	2	<1.0	--	<0.8	<1.0	<0.5	--	--	--	--	--	--	<1.0	<0.8	--	<1	--	--	--	--	<250
	04/12/08	2.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEI-12	04/12/08	<0.010	--	--	--	<1.00	<1.00	<1.00	--	--	--	--	--	--	<1.00	<1.00	--	<1.00	--	--	--	--	--
MW-1	07/25/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2.5
MW-2	07/22/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5
MW-3	07/22/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5
	07/25/12	--	--	--	--	--	--	--	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	08/05/13	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**<0.80**	**<2.0**	**--**	**--**	**--**	**--**	**--**	**--**	**<2.0**
MW-4	07/30/09	--	--	--	<1.00	--	--	--	<1.00	<1.00	--	--	--	--	--	<1.00	--	--	--	--	--	--	<1.00
	07/22/10	--	--	--	--	--	--	<0.8	--	--	--	--	--	--	--	<0.8	--	--	--	--	--	--	<0.5
	09/23/11	--	<0.5	<1	--	--	--	<0.5	--	--	<1	<1	<1	--	--	<0.8	<1	<1	<2	<0.5	<1	<0.5	<2.5
	08/05/13	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**<0.4**	**<1.0**	**--**	**--**	**--**	**--**	**--**	**--**	**<1.0**
MW-5	07/22/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<3
MW-6	07/30/09	--	<2.00[4]	<2.00[4]	<2.00[4]	<2.00[4]	<2.00[4]	<2.00[4]	<2.00[4]	<2.00[4]	<4.00[4]	<2.00[4]	<2.00[4]	71.2 [4]	<2.00[4]	<2.00[4]	--	--	--	--	--	--	<2.00[4]
	07/22/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.6
	07/25/12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**<2.5**
MW-13	09/09/07	<0.0098	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/18/08	<0.010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-14	9/22/2010	--	--	--	--	--	--	<0.5	--	--	--	--	--	--	--	--	2	<1	12	2	2	<0.5	--
	09/23/11	--	<0.5	<1	--	--	--	<0.5	--	--	2	3	1	--	--	<0.8	1	<1	8	3	<1	3	<0.5
	07/25/12	--	--	--	--	--	--	--	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	4.9
	08/05/13	--	--	--	--	--	--	--	--	--	--	--	--	--	**<0.4**	**<1.0**	--	--	--	--	--	--	**<1.0**

Table 7
Groundwater Volatile Organic Compounds (VOCs) Analytical Data

Former Chevron 1001430, 418 Illinois Street
Former Texaco 211815, 401 Driveway Street
Former Unocal 306456, 328 1/2 Illinois Street
Fairbanks, Alaska

EPA Method:		8011	8260B																			8021B
Well	Sample Date	1,2-Dibromoethane	1,2-Dibromoethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1,1-Trichloroethane	Carbon Tetrachloride	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Trichlorofluoromethane	Trichloroethene	Tetrachloroethene	Isopropylbenzene	Trichloroethene (Trichloroethylene)	Trichlorofluoromethane (Freon 11)	m+p-Xylene	n-Propylbenzene	o-Xylene	Mmethyl Tertiary Butyl Ether (MTBE)
ADEC GCL		0.05	0.05	7,300	7	200	5	5	70	100	730	1,800	1,800	11,000	5	5	3,700	5	11,000	NE	370	NE	470
MW-15	9/22/2010	--	--	--	--	--	--	<5	--	--	--	--	--	--	--	--	68	<10	<20	5,600	130	2,800	--
	08/05/13	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**<20**	**<50**	**--**	**--**	**--**	**--**	**--**	**--**	**<50**
K-5	07/22/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5
K-7	07/22/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5
Trip Blank	03/17/07	<0.0098	<0.5	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--
	09/09/07	<0.0099	--	<1	--	<0.8	<1	<0.5	--	--	--	--	--	--	<1	<0.8	--	--	--	--	--	--	--

Notes:

All results are reported in micrograms per liter (µg/L)

ADEC = Alaska Department of Conservation

RCRA = Resource Conservation and Recovery Act; samples analyzed using EPA Methods 7470 (mercury only) and 6010B

GCL = ADEC 18 AAC 75 Groundwater Cleanup Level

Bold Type = Results of most recent sampling event

Highlighted concentrations are greater than the applicable ADEC GCL.

-- = sample was not analyzed for this compound

<25 = result did not exceed indicated method reporting limit; an elevated reporting limit indicates sample was diluted

[1] = Reporting limit raised due to high concentrations of non-target analytes.

[2] = Sample required dilution due to high concentrations of target analyte.

[3] = Sample analyzed via EPA Method 504.1

[4] = Reporting limit raised due to insufficient sample volume.

[5] = Sample analyzed via EPA Method 8011

[6] = Sample analyzed via EPA Method 8260B

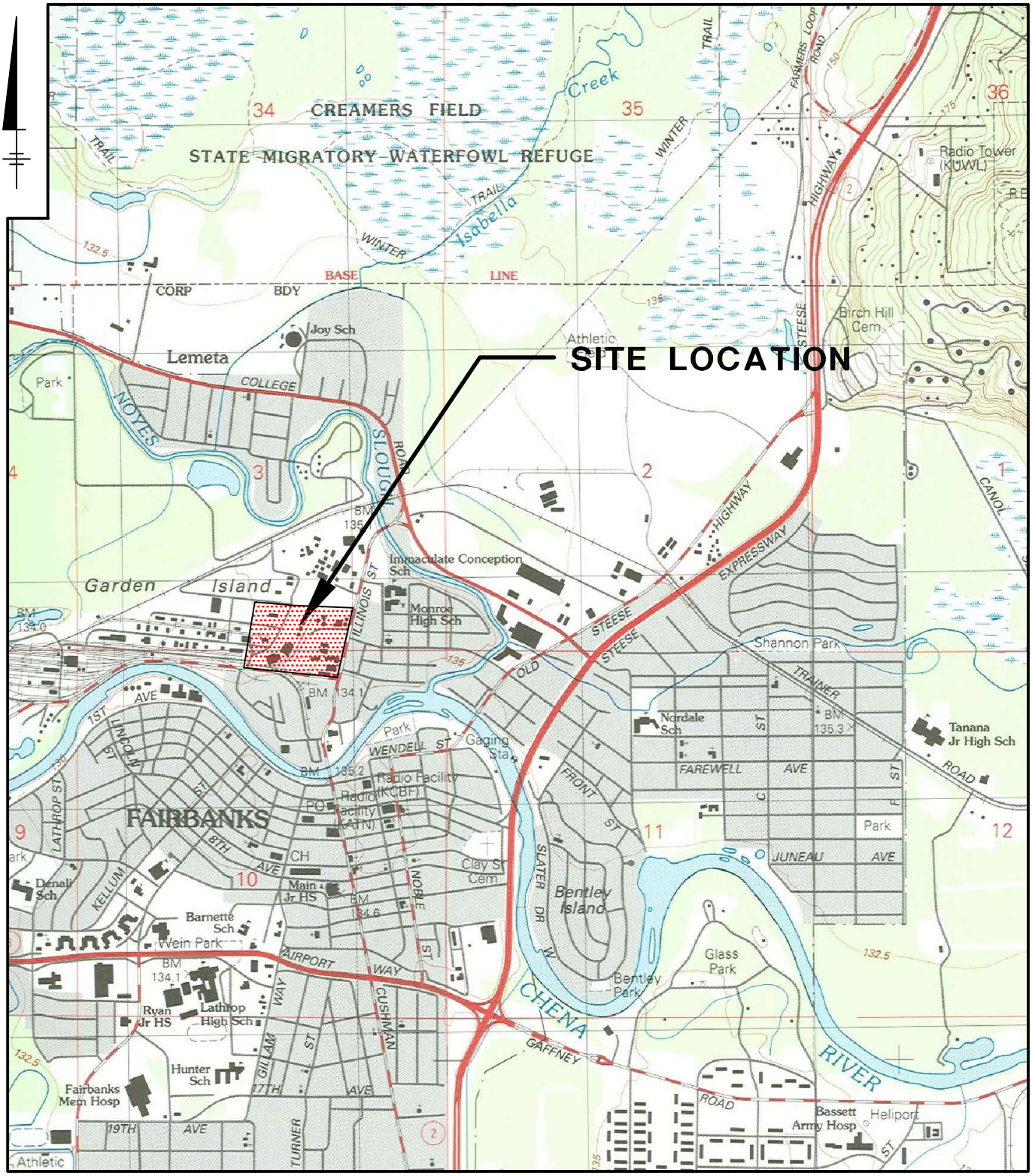
[D] = Duplicate

NE = Not Established

Additional analytical results for VOCs are shown on their respective analytical reports.

ARCADIS

Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: FAIRBANKS (D-2) SE, AK., 1992, FAIRBANKS NORTH STAR BOROUGH, SECTION: 3, TOWNSHIP: 1S, RANGE: 1W

0 2000' 4000'

APPROXIMATE GRAPHIC SCALE

FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER TEXACO BULK TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

ANNUAL 2013 GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

ARCADIS

FIGURE 1

CITY:TMAPA,FL DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:M.Strickler TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\TAMPA\ACTIChevron\USA\FAIR Site\45512.0008\2013 Annual GMR\B0045506N01.dwg LAYOUT: 1 SAVED: 8/30/2012 3:36 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/24/2013 1:14 PM BY: RICHARDS, JIM
XREFS: IMAGES: PROJECTNAME: ----
ALASKA.jpg
Fairbanks-SE.jpg

LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Destroyed Texaco Monitoring Well (AR)

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 120' 240'

APPROXIMATE GRAPHIC SCALE

FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER TEXACO BULK TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

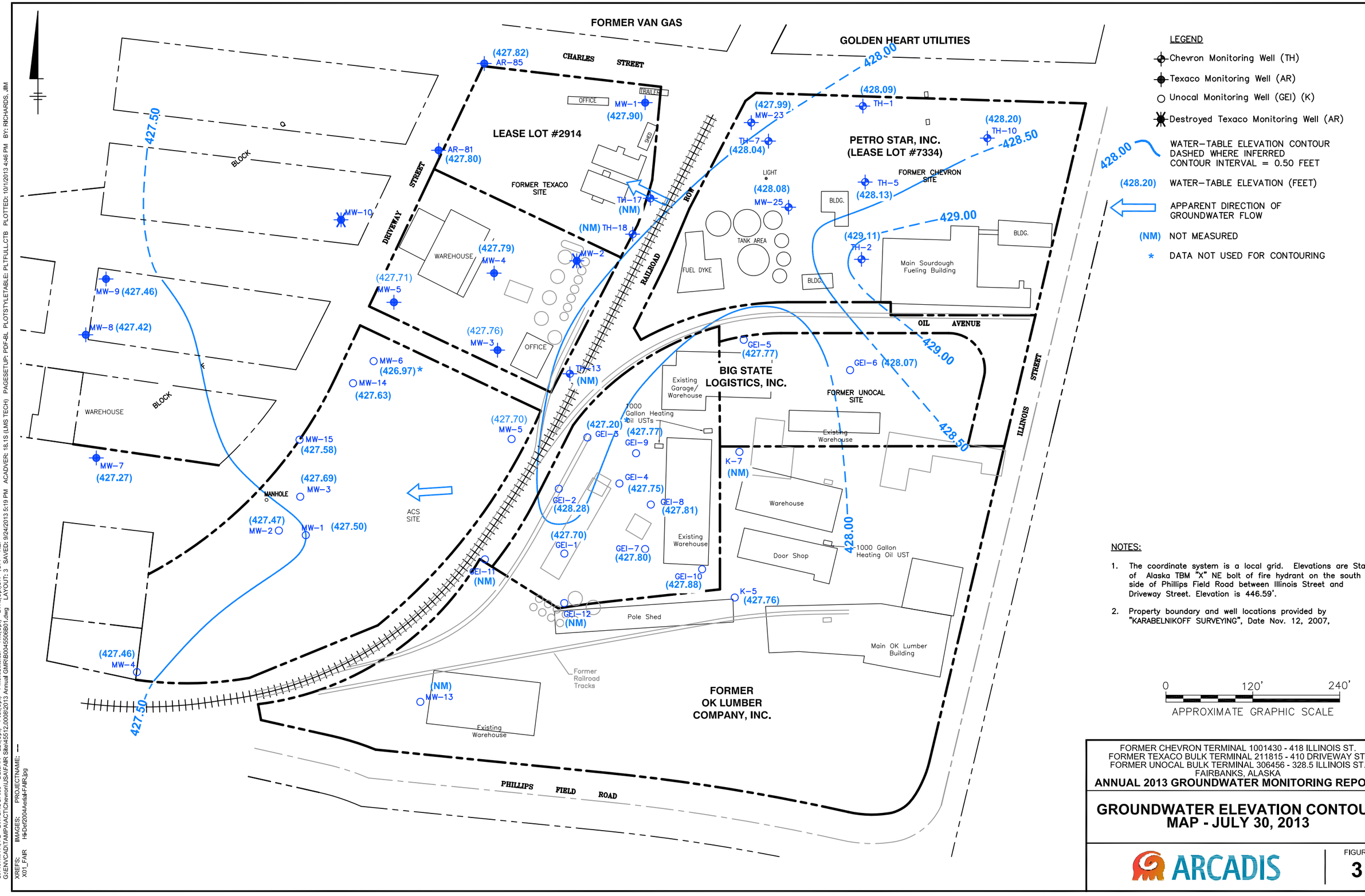
ANNUAL 2013 GROUNDWATER MONITORING REPORT

AERIAL PHOTOGRAPH

ARCADIS

FIGURE 2

CITY:TMA-A, FL DIV/GROUP:85 DB:JAR LD:(Opt) PIC:(Opt) PM:M.Strickler TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\TAMPA\ACT\Chevron\USA\FAIR Site\45512.0008\2013 Annual GMRB\0045506N02.dwg LAYOUT: 2 SAVED: 11/12/2013 1:39 PM ACADVER: 18.1S (LMS TECH)
XREFS: X01_FAIR IMAGES: Hi-Def2004Aerial-FAIR.jpg PROJECTNAME: ----
PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/12/2013 1:41 PM BY: RICHARDS, JIM



LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Destroyed Texaco Monitoring Well (AR)
- 428.00 — WATER-TABLE ELEVATION CONTOUR DASHED WHERE INFERRED CONTOUR INTERVAL = 0.50 FEET
- (428.20) — WATER-TABLE ELEVATION (FEET)
- APPARENT DIRECTION OF GROUNDWATER FLOW
- (NM) — NOT MEASURED
- * — DATA NOT USED FOR CONTOURING

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 120' 240'

APPROXIMATE GRAPHIC SCALE

FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER TEXACO BULK TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

ANNUAL 2013 GROUNDWATER MONITORING REPORT

GROUNDWATER ELEVATION CONTOUR MAP - JULY 30, 2013

ARCADIS

FIGURE 3

CITY:TMA-A_FL DIV/GROUP:65 DB:JAR LD:(Opt) PIC:(Opt) PM:M.Strickler TM:(Opt) LYR:(Opt)ON=*OFF=*REF*
G:\ENVCAD\TAMPA\ACTIChevron\USA\FAIR Site\455512.0008\2013 Annual GMR\B0045506B01.dwg LAYOUT: 3 SAVED: 9/24/2013 5:19 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: PDF-BL PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/1/2013 4:46 PM BY: RICHARDS, JIM
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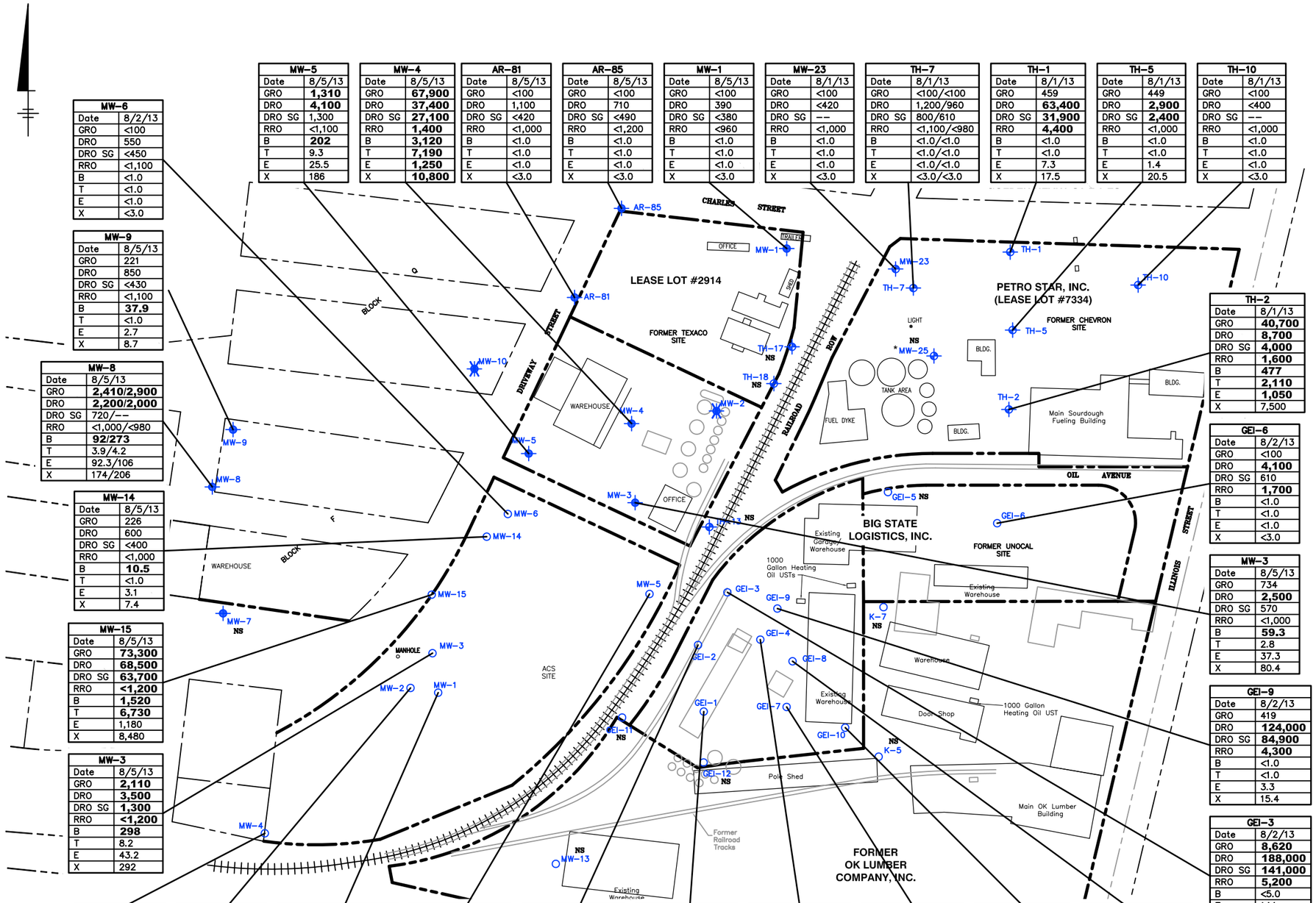

MW-6	
Date	8/2/13
GRO	<100
DRO	550
DRO SG	<450
RRO	<1,100
B	<1.0
T	<1.0
E	<1.0
X	<3.0

MW-9	
Date	8/5/13
GRO	221
DRO	850
DRO SG	<430
RRO	<1,100
B	**37.9**
T	<1.0
E	2.7
X	8.7

MW-8	
Date	8/5/13
GRO	**2,410/2,900**
DRO	**2,200/2,000**
DRO SG	720/--
RRO	<1,000/<980
B	**92/273**
T	3.9/4.2
E	92.3/106
X	174/206

MW-14	
Date	8/5/13
GRO	226
DRO	600
DRO SG	<400
RRO	<1,000
B	**10.5**
T	<1.0
E	3.1
X	7.4

MW-15	
Date	8/5/13
GRO	**73,300**
DRO	**68,500**
DRO SG	**63,700**
RRO	**<1,200**
B	**1,520**
T	**6,730**
E	1,180
X	8,480

MW-3	
Date	8/5/13
GRO	**2,110**
DRO	**3,500**
DRO SG	**1,300**
RRO	**<1,200**
B	**298**
T	8.2
E	43.2
X	292

MW-5	
Date	8/5/13
GRO	**1,310**
DRO	**4,100**
DRO SG	1,300
RRO	<1,100
B	**202**
T	9.3
E	25.5
X	186

MW-4	
Date	8/5/13
GRO	**67,900**
DRO	**37,400**
DRO SG	**27,100**
RRO	**1,400**
B	**3,120**
T	**7,190**
E	**1,250**
X	**10,800**

AR-81	
Date	8/5/13
GRO	<100
DRO	1,100
DRO SG	<420
RRO	<1,000
B	<1.0
T	<1.0
E	<1.0
X	<3.0

AR-85	
Date	8/5/13
GRO	<100
DRO	710
DRO SG	<490
RRO	<1,200
B	<1.0
T	<1.0
E	<1.0
X	<3.0

MW-1	
Date	8/5/13
GRO	<100
DRO	390
DRO SG	<380
RRO	<960
B	<1.0
T	<1.0
E	<1.0
X	<3.0

MW-23	
Date	8/1/13
GRO	<100
DRO	<420
DRO SG	--
RRO	<1,000
B	<1.0
T	<1.0
E	<1.0
X	<3.0

TH-7	
Date	8/1/13
GRO	<100/<100
DRO	1,200/960
DRO SG	800/610
RRO	<1,100/<980
B	<1.0/<1.0
T	<1.0/<1.0
E	<1.0/<1.0
X	<3.0/<3.0

TH-1	
Date	8/1/13
GRO	459
DRO	**63,400**
DRO SG	**31,900**
RRO	**4,400**
B	<1.0
T	<1.0
E	7.3
X	17.5

TH-5	
Date	8/1/13
GRO	449
DRO	**2,900**
DRO SG	**2,400**
RRO	<1,000
B	<1.0
T	<1.0
E	1.4
X	20.5

TH-10	
Date	8/1/13
GRO	<100
DRO	<400
DRO SG	--
RRO	<1,000
B	<1.0
T	<1.0
E	<1.0
X	<3.0

TH-2	
Date	8/1/13
GRO	**40,700**
DRO	**8,700**
DRO SG	**4,000**
RRO	**1,600**
B	**477**
T	**2,110**
E	**1,050**
X	7,500

GEI-6	
Date	8/2/13
GRO	<100
DRO	**4,100**
DRO SG	610
RRO	**1,700**
B	<1.0
T	<1.0
E	<1.0
X	<3.0

MW-3	
Date	8/5/13
GRO	734
DRO	**2,500**
DRO SG	570
RRO	<1,000
B	**59.3**
T	2.8
E	37.3
X	80.4

GEI-9	
Date	8/2/13
GRO	419
DRO	**124,000**
DRO SG	**84,900**
RRO	**4,300**
B	<1.0
T	<1.0
E	3.3
X	15.4

GEI-3	
Date	8/2/13
GRO	**8,620**
DRO	**188,000**
DRO SG	**141,000**
RRO	**5,200**
B	<5.0
T	144
E	63.7
X	2,100

MW-4	
Date	8/5/13
GRO	<100
DRO	<450
DRO SG	--
RRO	<1,100
B	<1.0
T	<1.0
E	<1.0
X	<3.0

MW-2	
Date	8/5/13
GRO	<100
DRO	<450
DRO SG	--
RRO	<1,100
B	<1.0
T	<1.0
E	<1.0
X	<3.0

MW-1	
Date	8/5/13
GRO	<100/<100
DRO	<430/<430
DRO SG	--
RRO	<1,100/<1,100
B	<1.0/<1.0
T	<1.0/<1.0
E	<1.0/<1.0
X	<3.0/<3.0

MW-5	
Date	8/2/13
GRO	**8,610**
DRO	**146,000**
DRO SG	**119,000**
RRO	**1,600**
B	**84.7**
T	764
E	179
X	1,860

GEI-2	
Date	8/2/13
GRO	**230,000**
DRO	**96,300**
DRO SG	**68,100**
RRO	**3,200**
B	**3,330**
T	**37,100**
E	**3,210**
X	**26,700**

GEI-1	
Date	8/2/13
GRO	**42,200**
DRO	**418,000**
DRO SG	**330,000**
RRO	**4,200**
B	**2,920**
T	**5,060**
E	538
X	3,410

GEI-4	
Date	8/2/13
GRO	1,290
DRO	**159,000**
DRO SG	**122,000**
RRO	**1,600**
B	**7.7**
T	2.9
E	42.0
X	238

GEI-7	
Date	8/2/13
GRO	**16,400**
DRO	**175,000**
DRO SG	**166,000**
RRO	**2,700**
B	**186**
T	**1,530**
E	200
X	2,400

GEI-10	
Date	8/2/13
GRO	151
DRO	**59,100**
DRO SG	**55,000**
RRO	<1,000
B	<1.0
T	<1.0
E	1.9
X	7.8

GEI-8	
Date	8/2/13
GRO	**11,000**
DRO	**1,740,000**
DRO SG	**1,330,000**
RRO	**3,900**
B	<5.0
T	49.5
E	111
X	2,160

LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Destroyed Texaco Monitoring Well (AR)

SAMPLE LOCATION	
DATE	SAMPLE DATE
GRO	GASOLINE RANGE ORGANICS
DRO	DIESEL RANGE ORGANICS
DRO SG	DIESEL RANGE ORGANICS WITH SILICA GEL
RRO	RESIDUAL RANGE ORGANICS
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)

220/210 = DUPLICATE SAMPLE COLLECTED

BOLD VALUE INDICATES CONCENTRATION GREATER THAN ADEC GROUNDWATER CLEANUP LEVELS 18 AAC 75.

* = GROUNDWATER SAMPLES WERE NOT COLLECTED DUE TO THE PRESENCE OF LNAPL

NS = SAMPLE COULD NOT BE COLLECTED FROM THE MONITORING WELL

NA = NOT ANALYZED

< = LESS THAN REPORTING LIMIT

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 150' 300'

GRAPHIC SCALE

FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER TEXACO BULK TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

ANNUAL 2013 GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS AUGUST 2013

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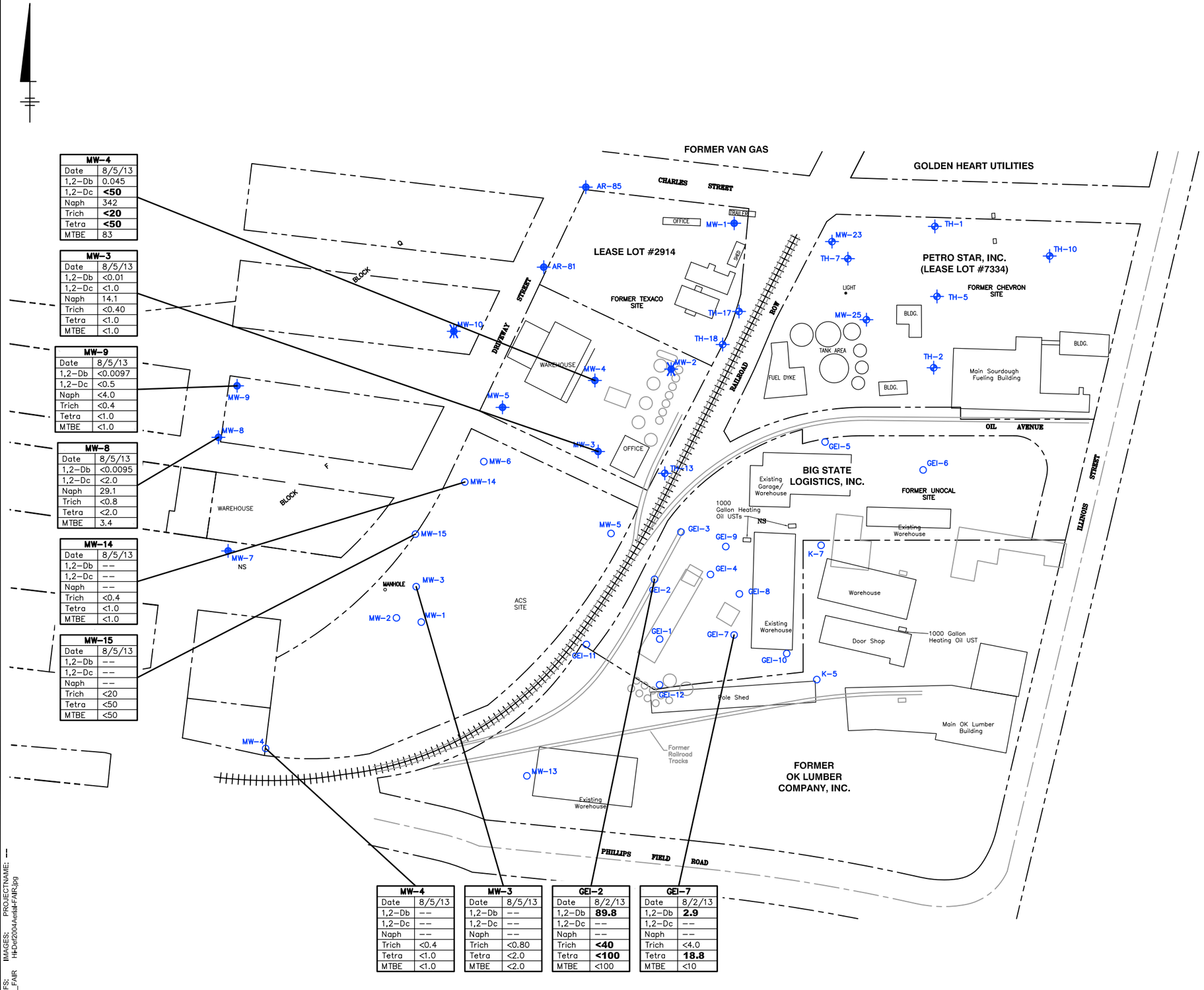
FIGURE 4



MW-4	
Date	8/5/13
1,2-Db	0.045
1,2-Dc	**<50**
Naph	342
Trich	**<20**
Tetra	**<50**
MTBE	83

MW-3	
Date	8/5/13
1,2-Db	<0.01
1,2-Dc	<1.0
Naph	14.1
Trich	<0.40
Tetra	<1.0
MTBE	<1.0

MW-9	
Date	8/5/13
1,2-Db	<0.0097
1,2-Dc	<0.5
Naph	<4.0
Trich	<0.4
Tetra	<1.0
MTBE	<1.0

MW-8	
Date	8/5/13
1,2-Db	<0.0095
1,2-Dc	<2.0
Naph	29.1
Trich	<0.8
Tetra	<2.0
MTBE	3.4

MW-14	
Date	8/5/13
1,2-Db	--
1,2-Dc	--
Naph	--
Trich	<0.4
Tetra	<1.0
MTBE	<1.0

MW-15	
Date	8/5/13
1,2-Db	--
1,2-Dc	--
Naph	--
Trich	<20
Tetra	<50
MTBE	<50

MW-4	
Date	8/5/13
1,2-Db	--
1,2-Dc	--
Naph	--
Trich	<0.4
Tetra	<1.0
MTBE	<1.0

MW-3	
Date	8/5/13
1,2-Db	--
1,2-Dc	--
Naph	--
Trich	<0.80
Tetra	<2.0
MTBE	<2.0

GEI-2	
Date	8/2/13
1,2-Db	**89.8**
1,2-Dc	--
Naph	--
Trich	**<40**
Tetra	**<100**
MTBE	<100

GEI-7	
Date	8/2/13
1,2-Db	**2.9**
1,2-Dc	--
Naph	--
Trich	<4.0
Tetra	**18.8**
MTBE	<10

LEGEND

- Chevron Monitoring Well (TH)
- Texaco Monitoring Well (AR)
- Unocal Monitoring Well (GEI) (K)
- Destroyed Texaco Monitoring Well (AR)

SAMPLE LOCATION	
DATE	SAMPLE DATE
1,2-Dc	1,2-Dichloroethane
1,2-Db	1,2-Dibromoethane
Tetra	Tetrachloroethene
Trich	Trichloroethene (Trichloroethylene)
MTBE	Methyl Tertiary Butyl Ether

ALL RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)

220/210 = DUPLICATE SAMPLE COLLECTED

BOLD VALUE INDICATES CONCENTRATION GREATER THAN ADEC GROUNDWATER CLEANUP LEVELS 18 AAC 75.

NS = SAMPLE COULD NOT BE COLLECTED FROM THIS MONITORING WELL

< = LESS THAN REPORTING LIMIT

NOTES:

1. The coordinate system is a local grid. Elevations are State of Alaska TBM "X" NE bolt of fire hydrant on the south side of Phillips Field Road between Illinois Street and Driveway Street. Elevation is 446.59'.
2. Property boundary and well locations provided by "KARABELNIKOFF SURVEYING", Date Nov. 12, 2007,

0 150' 300'

GRAPHIC SCALE

FORMER CHEVRON TERMINAL 1001430 - 418 ILLINOIS ST.
FORMER TEXACO BULK TERMINAL 211815 - 410 DRIVEWAY ST.
FORMER UNOCAL BULK TERMINAL 306456 - 328.5 ILLINOIS ST.
FAIRBANKS, ALASKA

ANNUAL 2013 GROUNDWATER MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS - VOCs - AUGUST 2013

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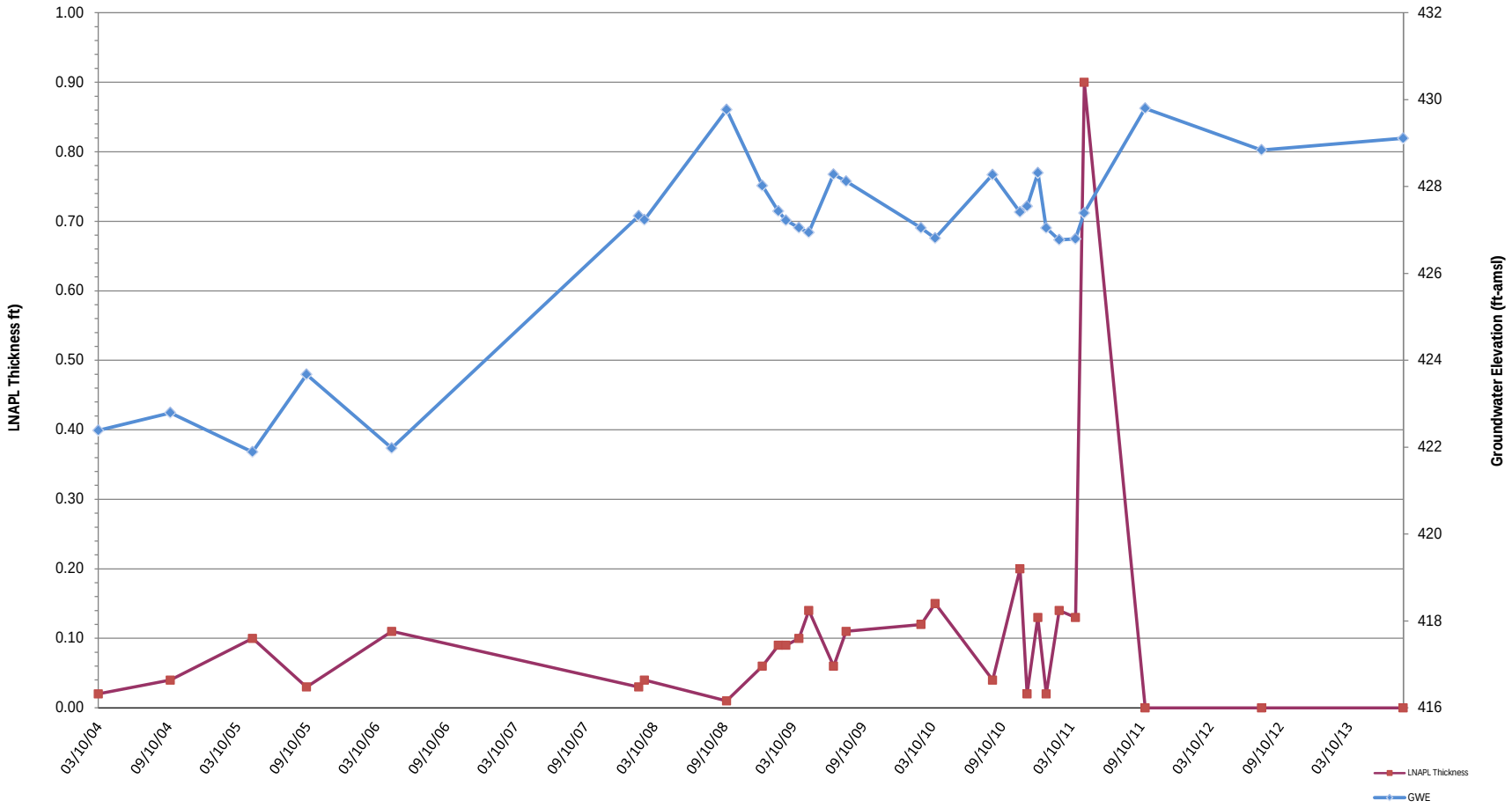
FIGURE 5



LEGEND:

LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

FORMER CHEVRON TERMINAL 1001430
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well TH-2 Historical Groundwater Elevation and LNAPL Thickness

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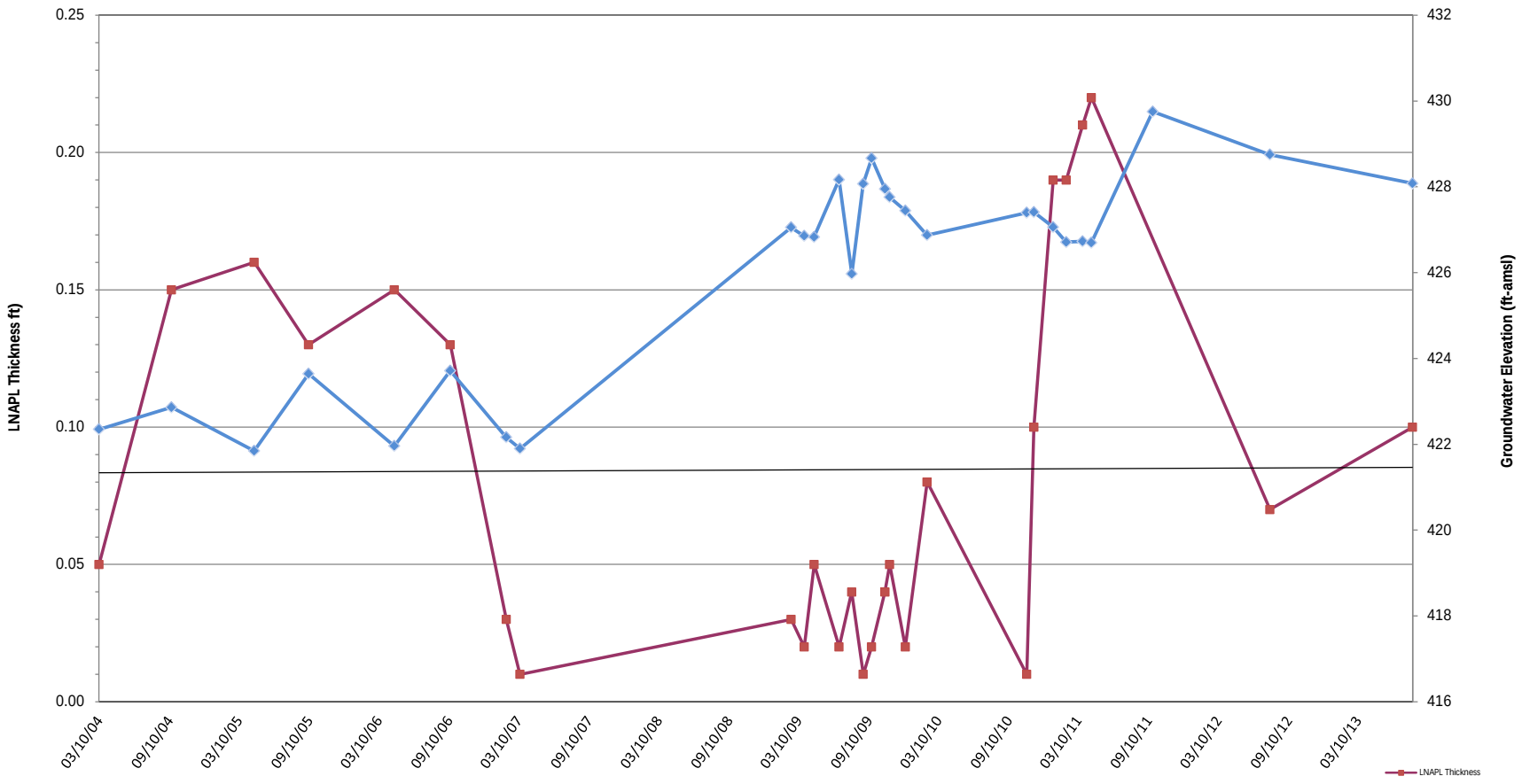
Infrastructure · Water · Environment · Buildings

FIGURE
A-1



LEGEND:
LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

FORMER CHEVRON TERMINAL 1001430
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-25 Historical Groundwater Elevation and LNAPL Thickness

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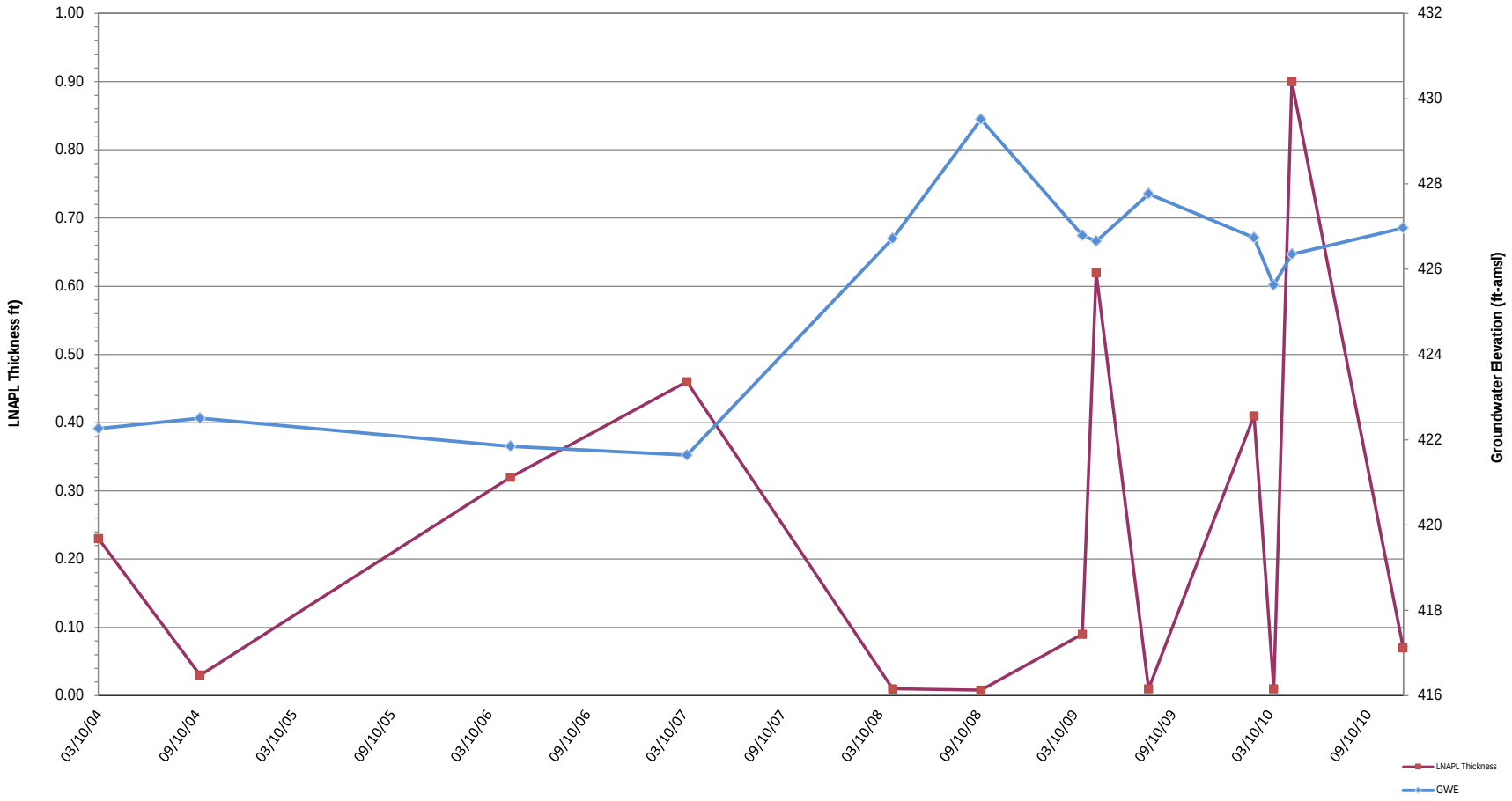
FIGURE
A-2



LEGEND:
LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

FORMER TEXACO TERMINAL 211815
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-4 Historical Groundwater Elevation and LNAPL Thickness

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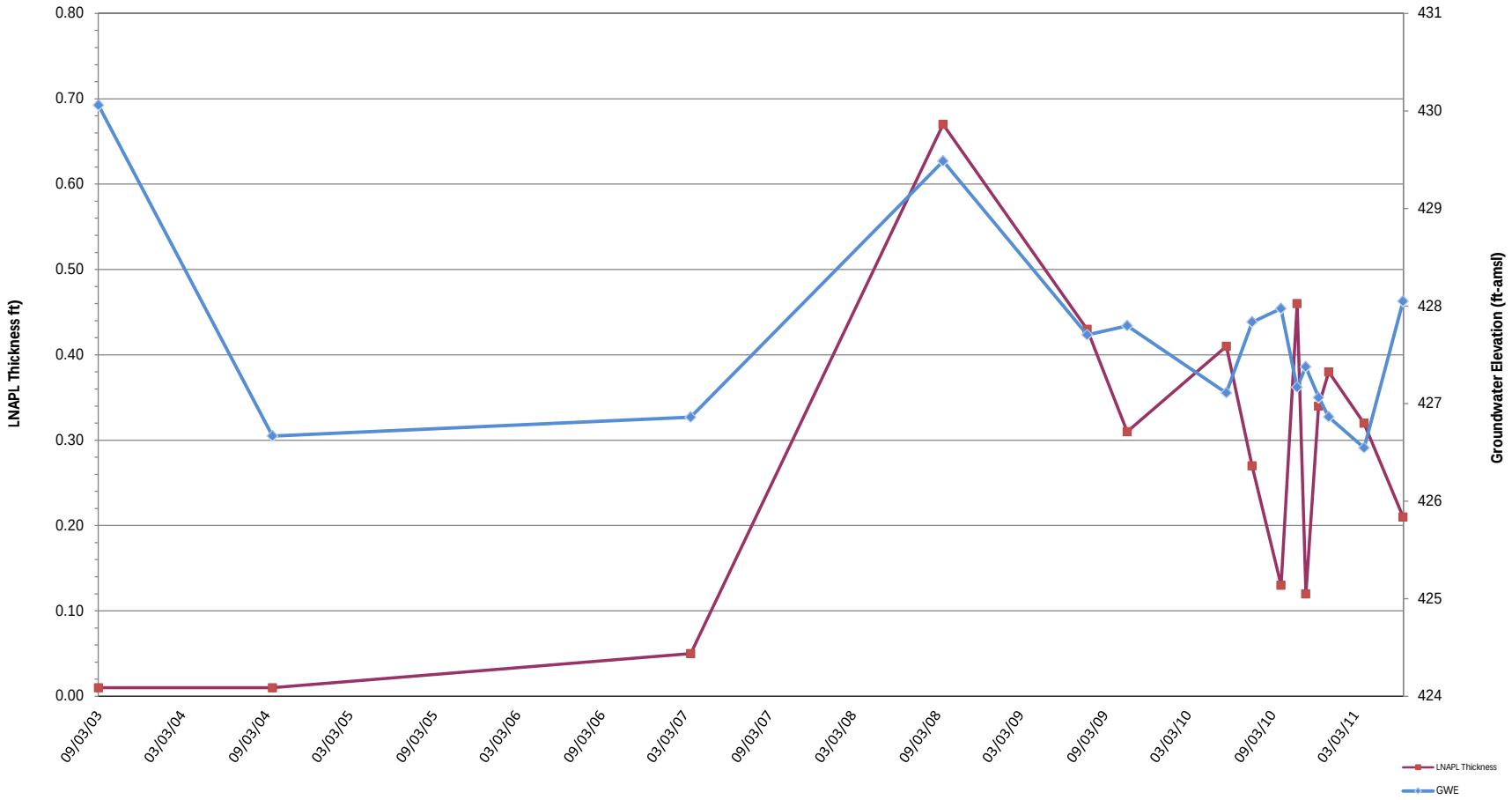
Infrastructure · Water · Environment · Buildings

FIGURE
A-3



LEGEND:

LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-1 Historical Groundwater Elevation and LNAPL Thickness

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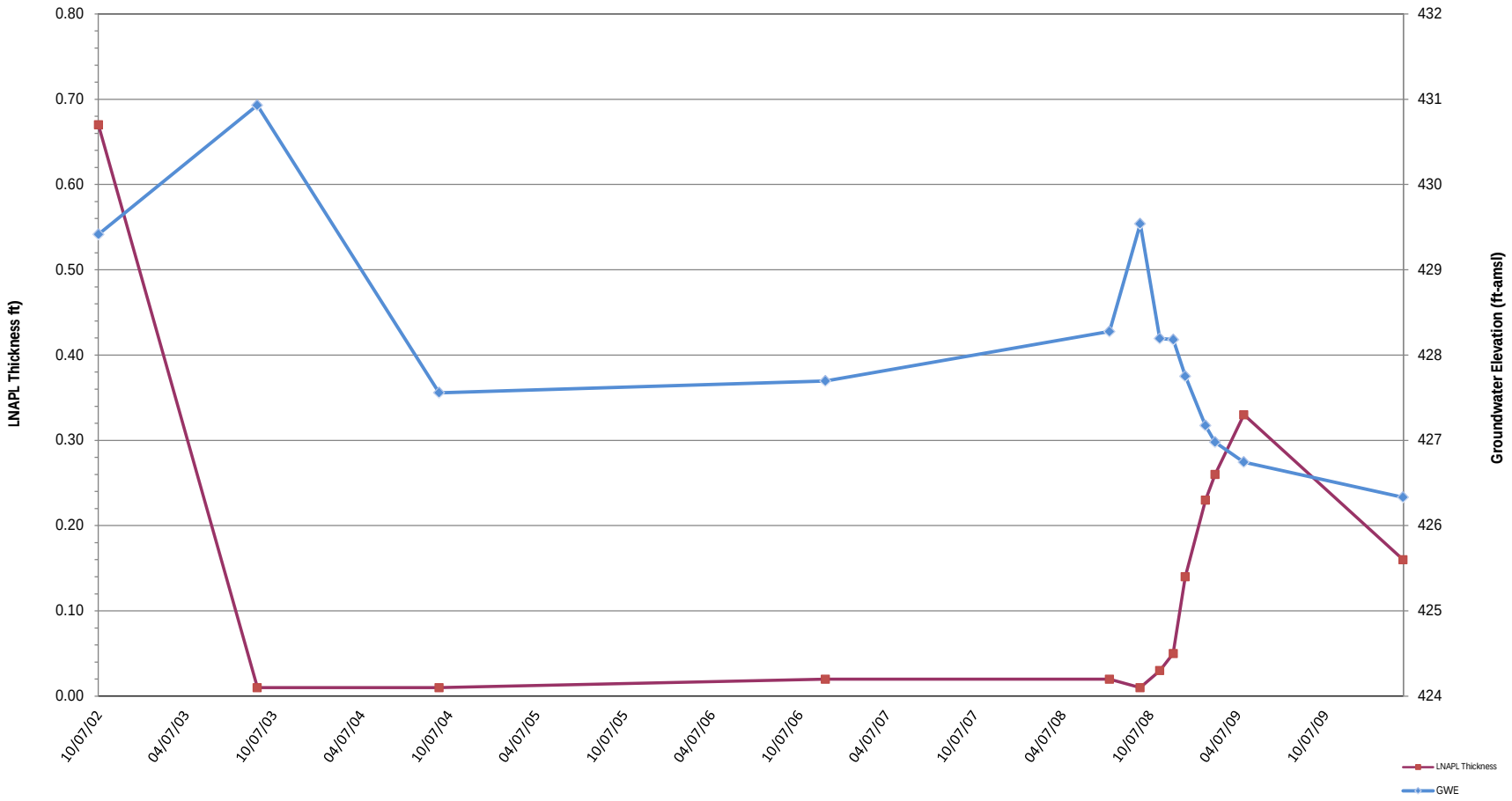
FIGURE
A-4



LEGEND:

LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-4 Historical Groundwater Elevation and LNAPL Thickness

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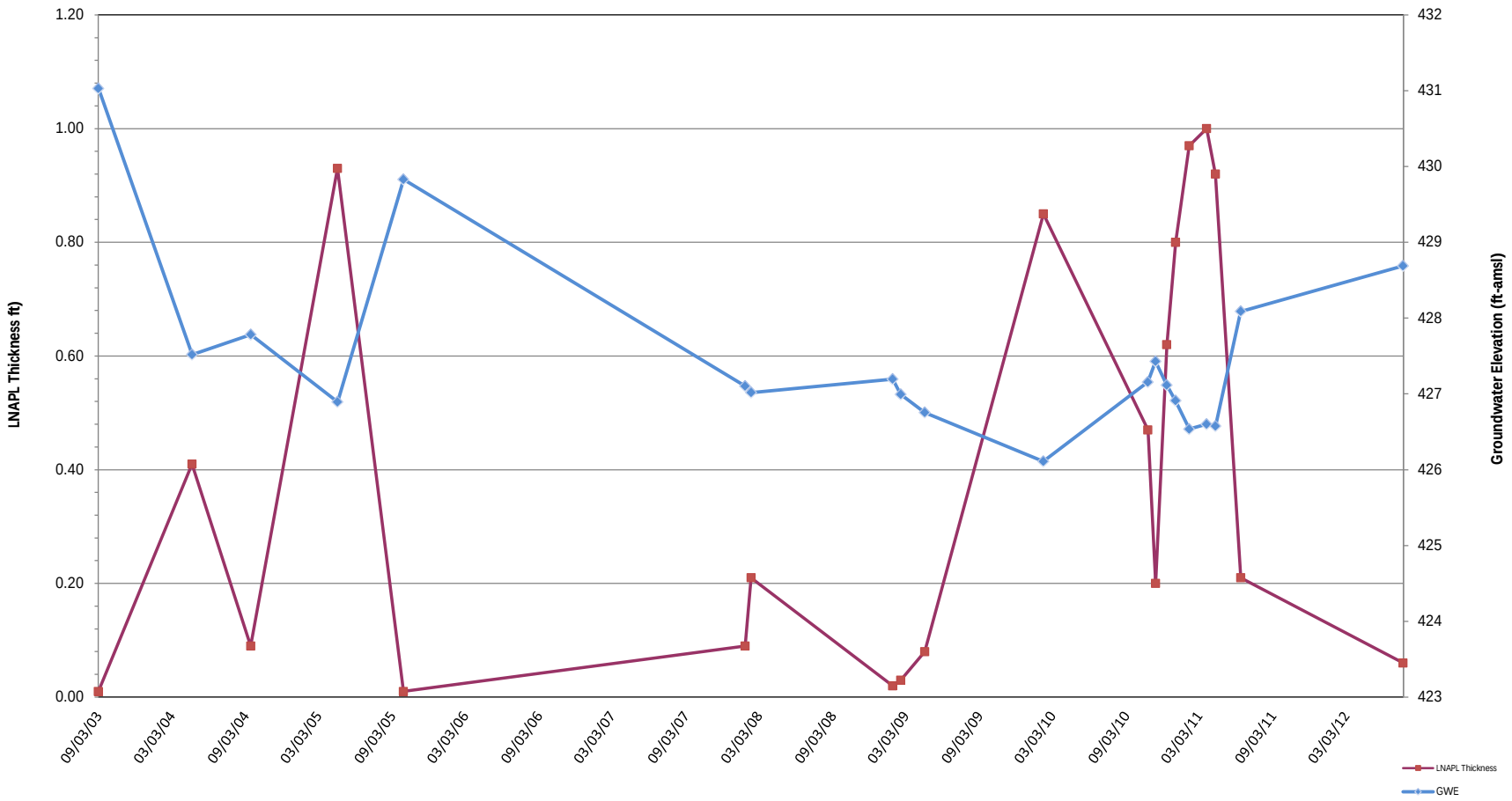
FIGURE
A-5



LEGEND:

LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

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Monitoring Well GEI-7 Historical Groundwater Elevation and LNAPL Thickness

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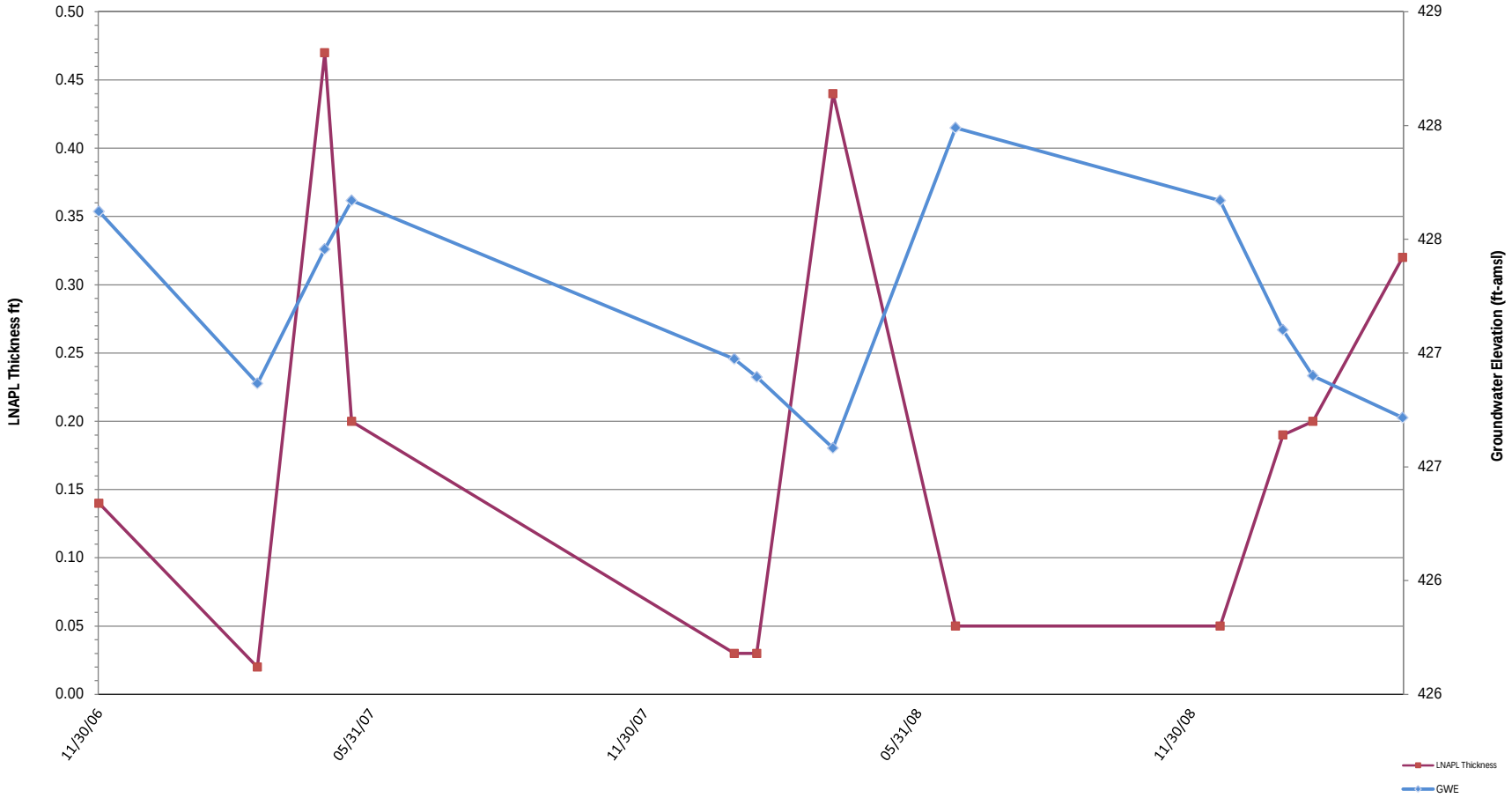
FIGURE
A-6



LEGEND:
LNAPL = Light Non-Aqueous Phase Liquid
ft-amsl = Feet above mean sea level

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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-11 Historical Groundwater Elevation and LNAPL Thickness

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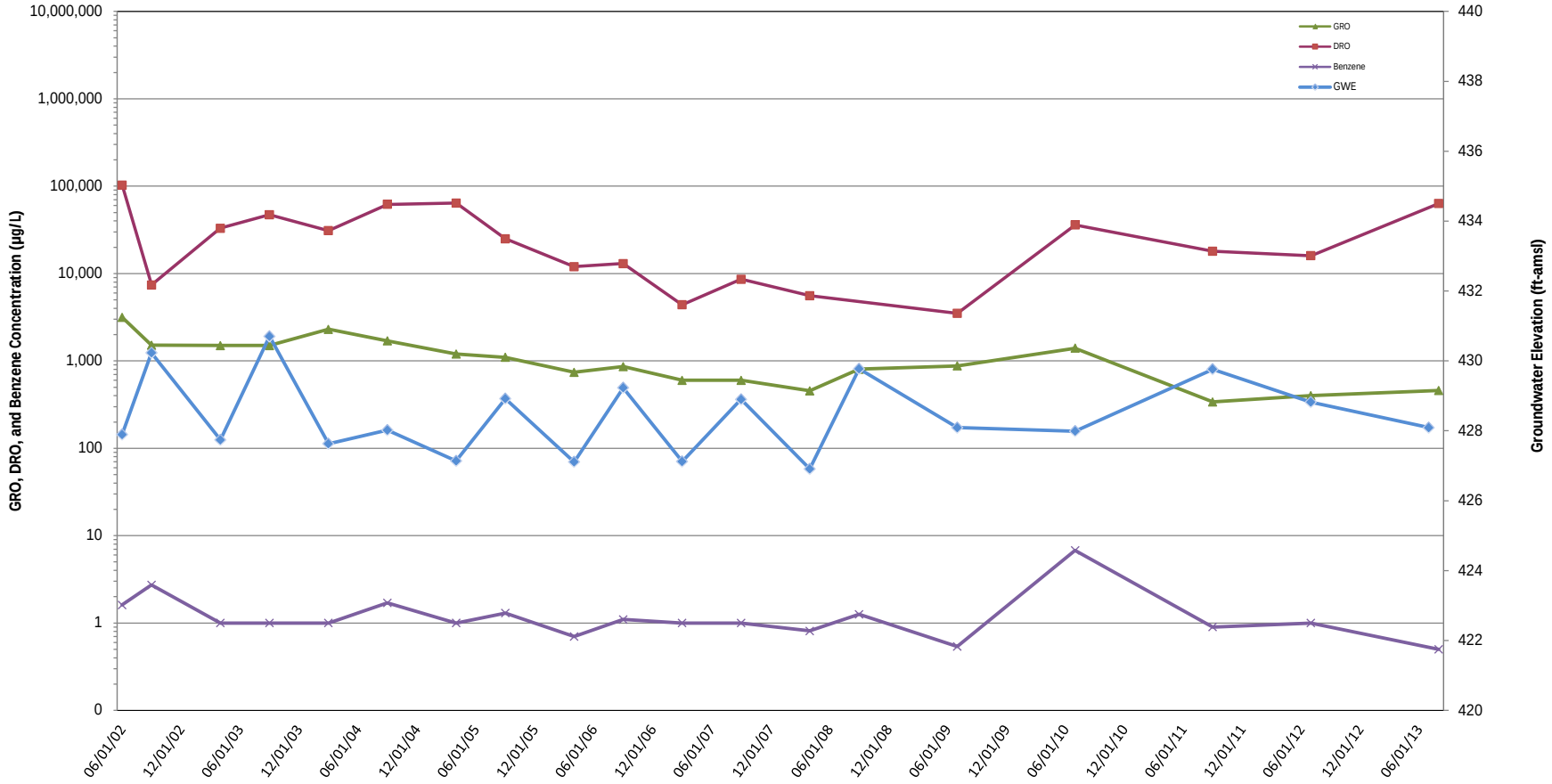
FIGURE
A-7



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

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418 ILLINOIS ST. FAIRBANKS. ALASKA
ANNUAL 2012 GROUNDWATER MONITORING REPORT

Monitoring Well TH-1 Historical Groundwater Elevation and Analytical Data

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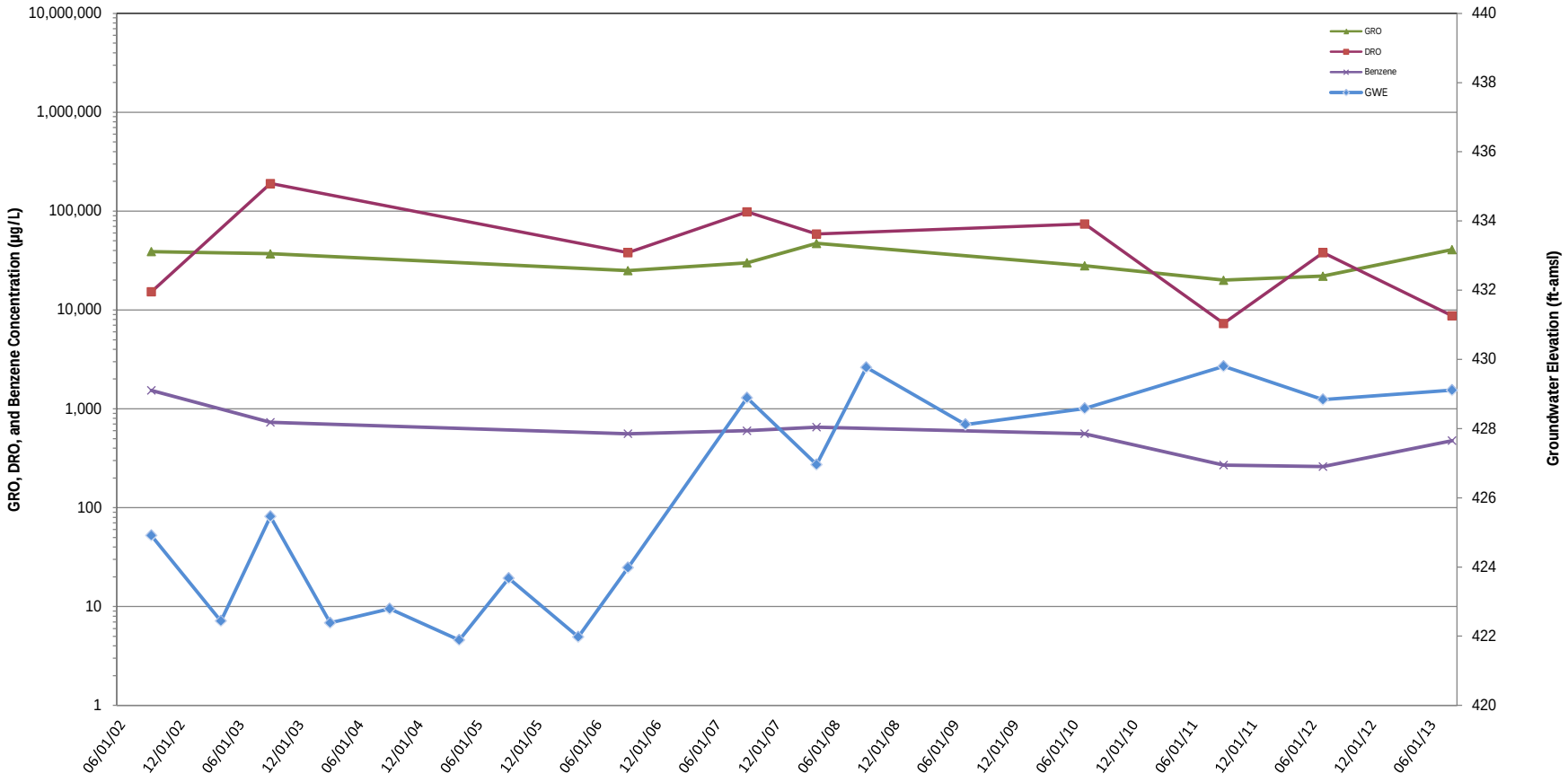
FIGURE
B-1



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

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Monitoring Well TH-2 Historical Groundwater Elevation and Analytical Data

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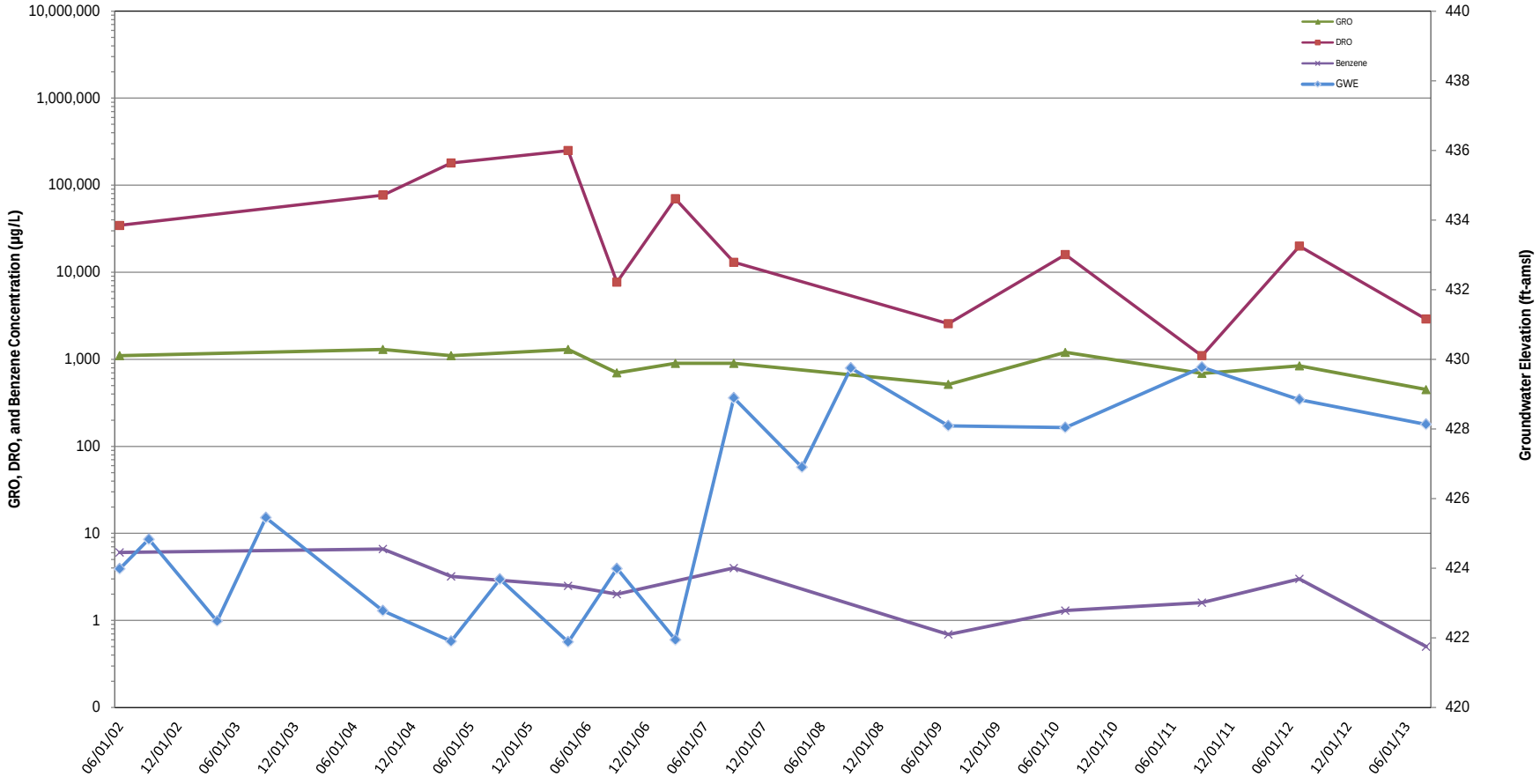
FIGURE
B-2



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

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418 ILLINOIS ST, FAIRBANKS, ALASKA
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Monitoring Well TH-5 Historical Groundwater Elevation and Analytical Data

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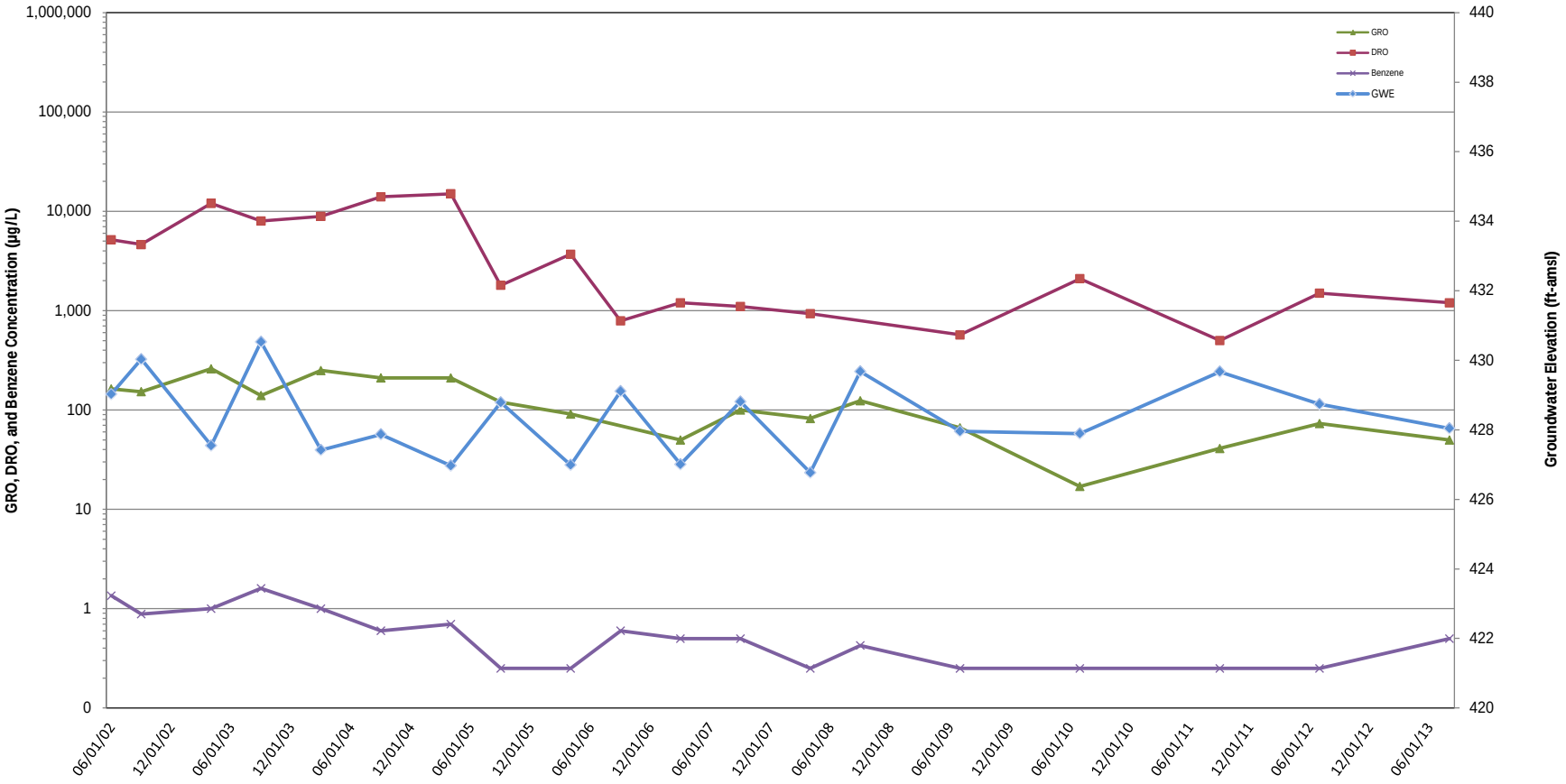
FIGURE
B-3



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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Monitoring Well TH-7 Historical Groundwater Elevation and Analytical Data

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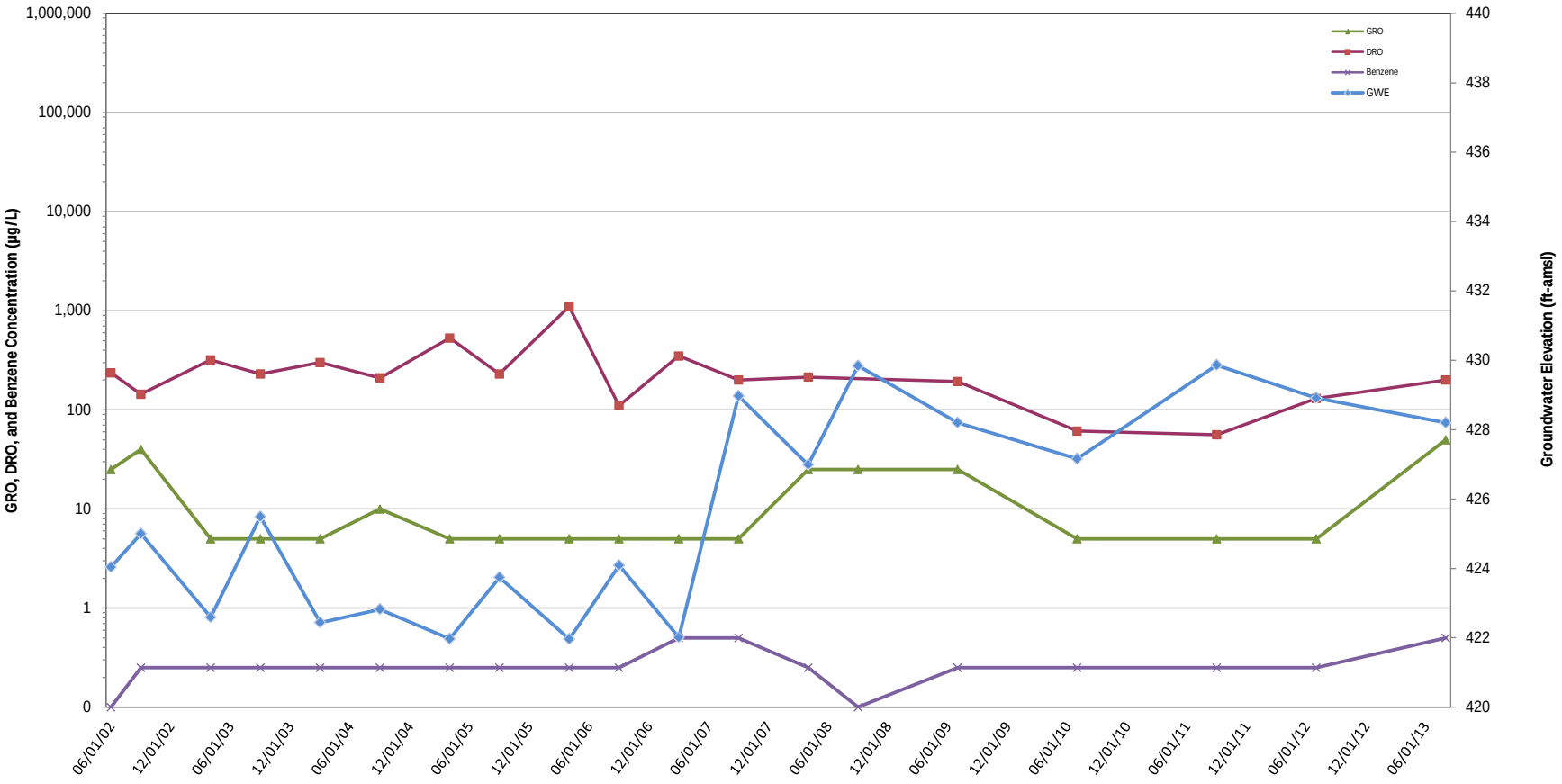
FIGURE
B-4



LEGEND:

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DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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418 ILLINOIS ST, FAIRBANKS, ALASKA
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Monitoring Well TH-10 Historical Groundwater Elevation and Analytical Data

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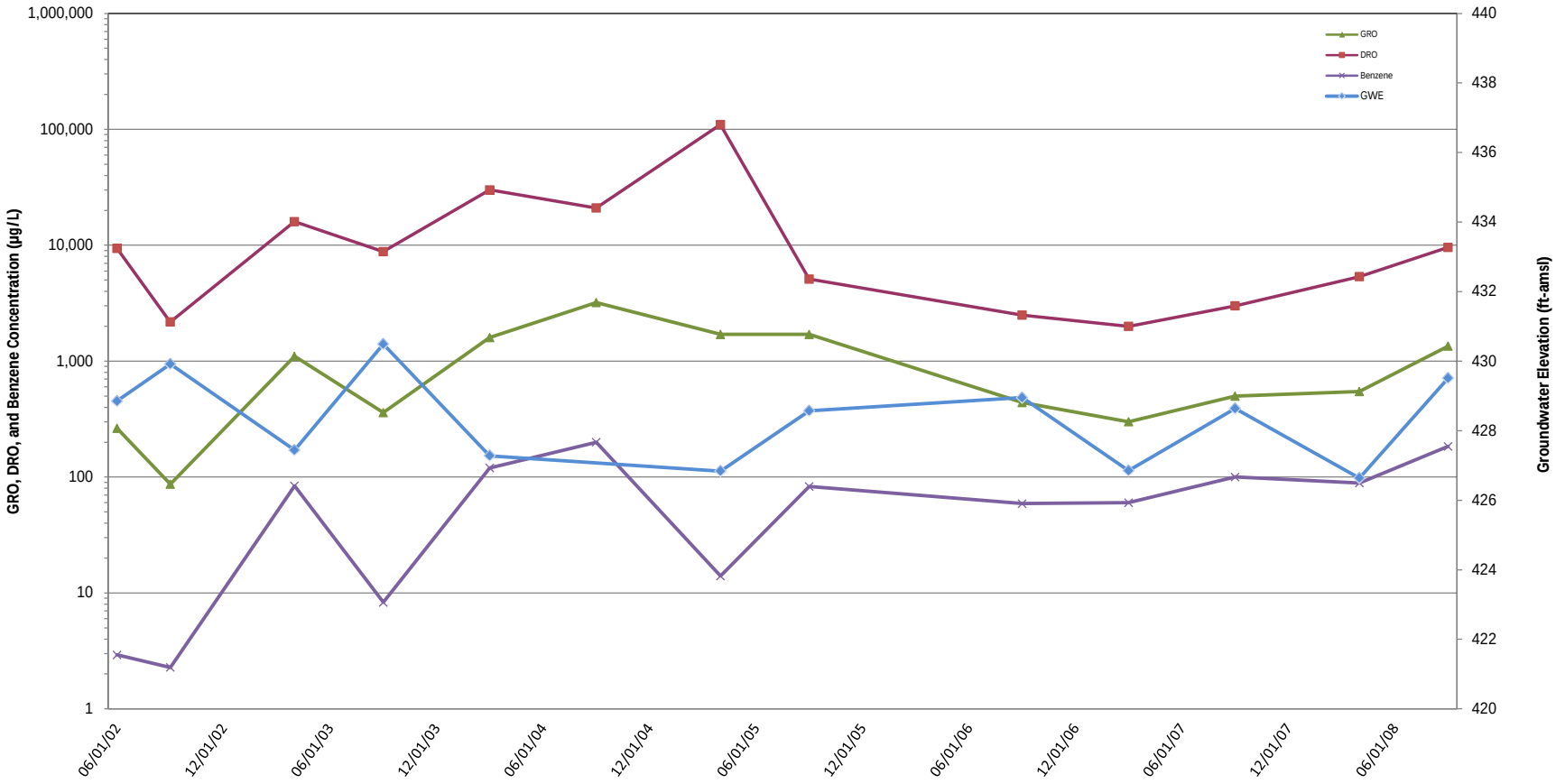
FIGURE
B-5



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

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Monitoring Well TH-13 Historical Groundwater Elevation and Analytical Data

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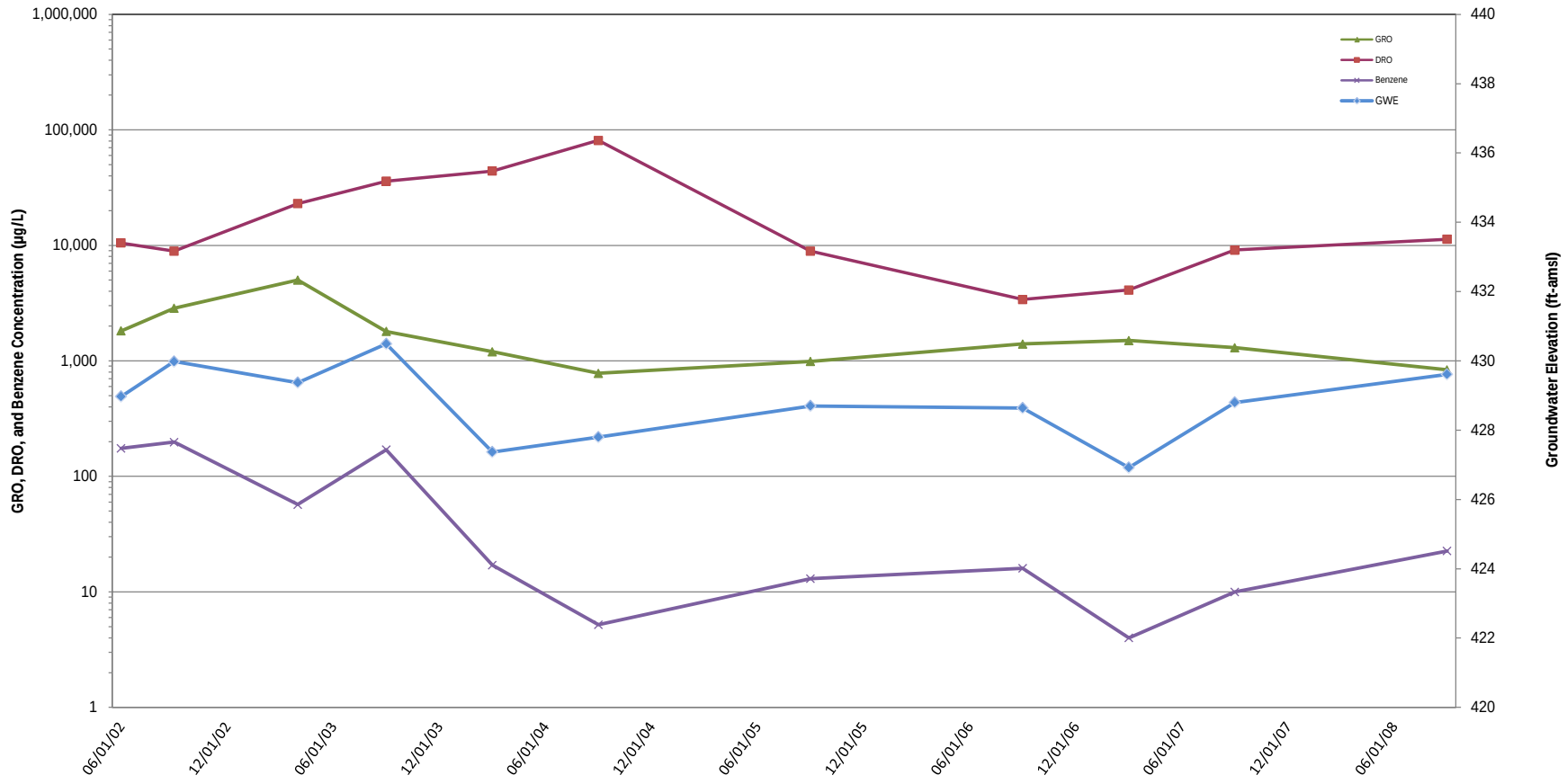
FIGURE
B-6



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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Monitoring Well TH-17 Historical Groundwater Elevation and Analytical Data

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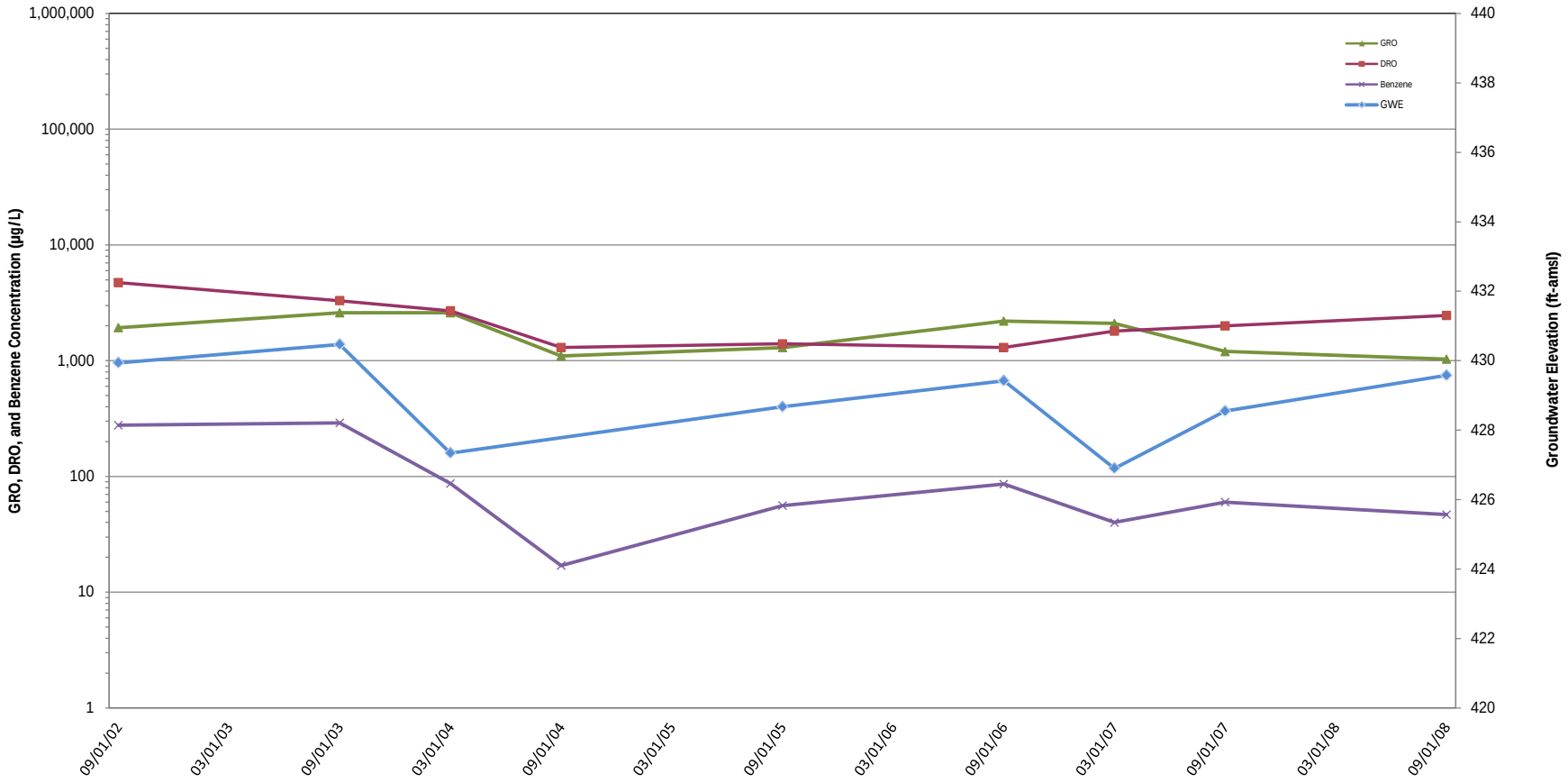
FIGURE
B-7



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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Monitoring Well TH-18 Historical Groundwater Elevation and Analytical Data

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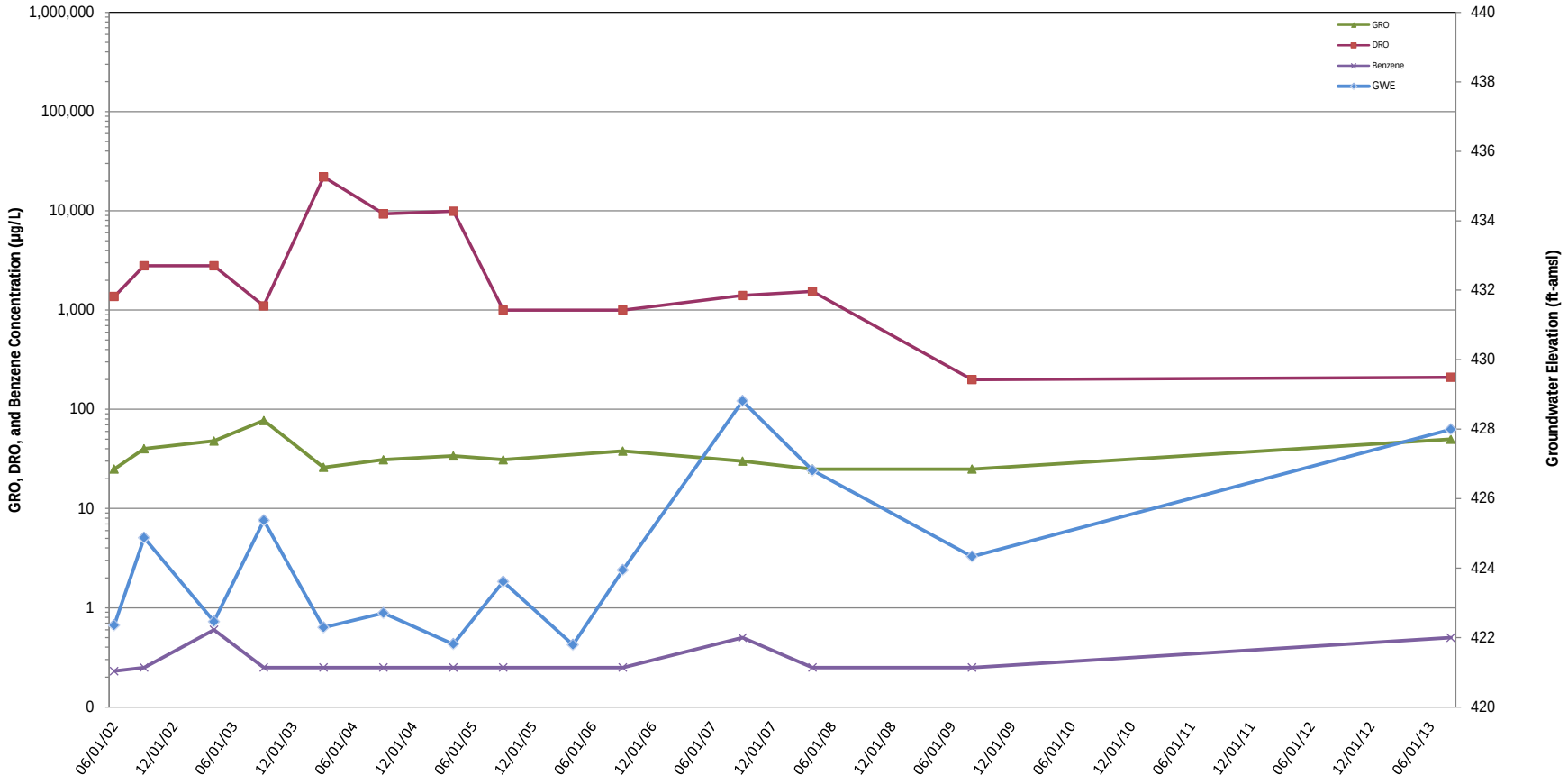
FIGURE
B-8



LEGEND:

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GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-23 Historical Groundwater Elevation and Analytical Data

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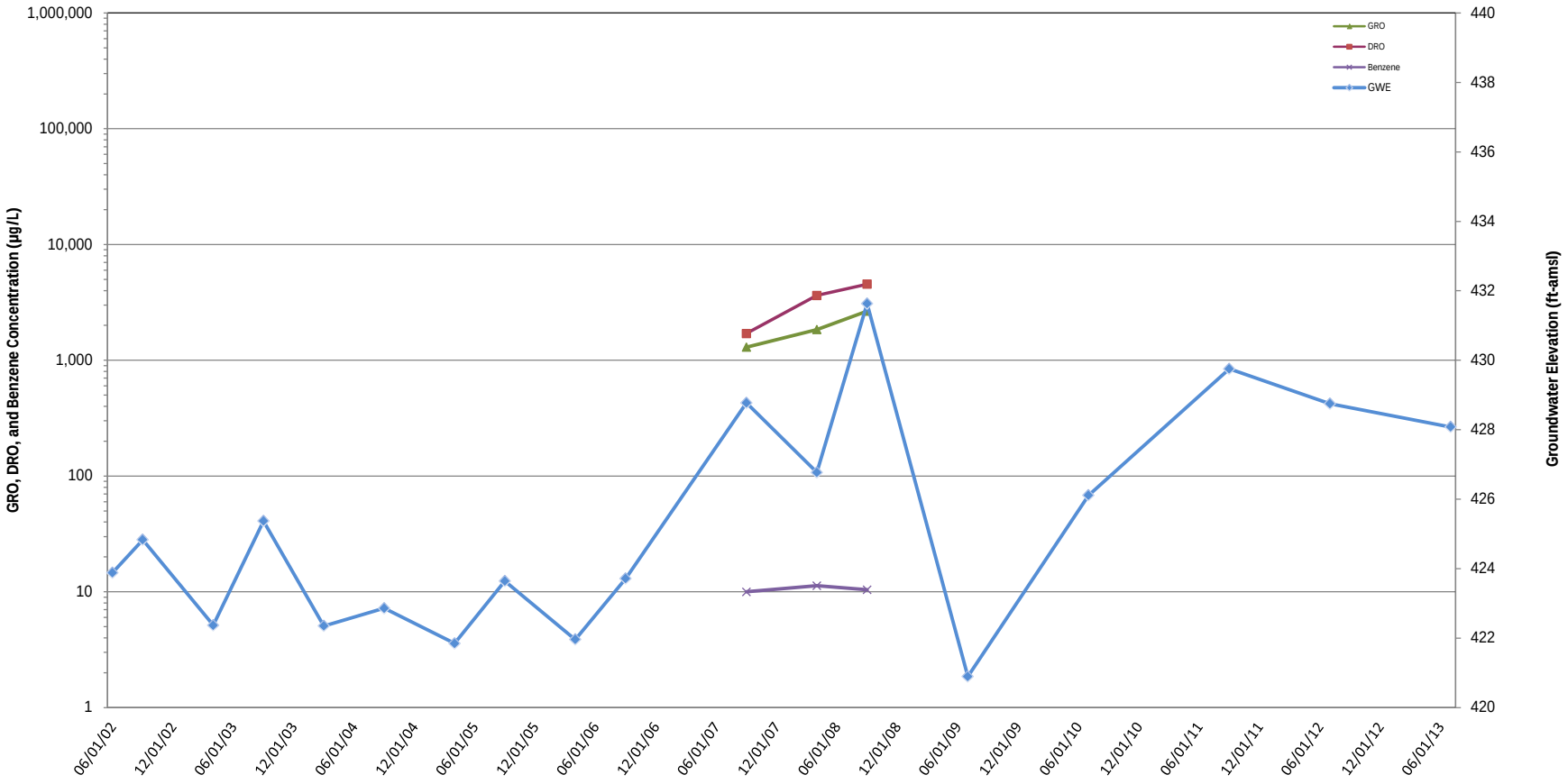
FIGURE
B-9



LEGEND:

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DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-25 Historical Groundwater Elevation and Analytical Data

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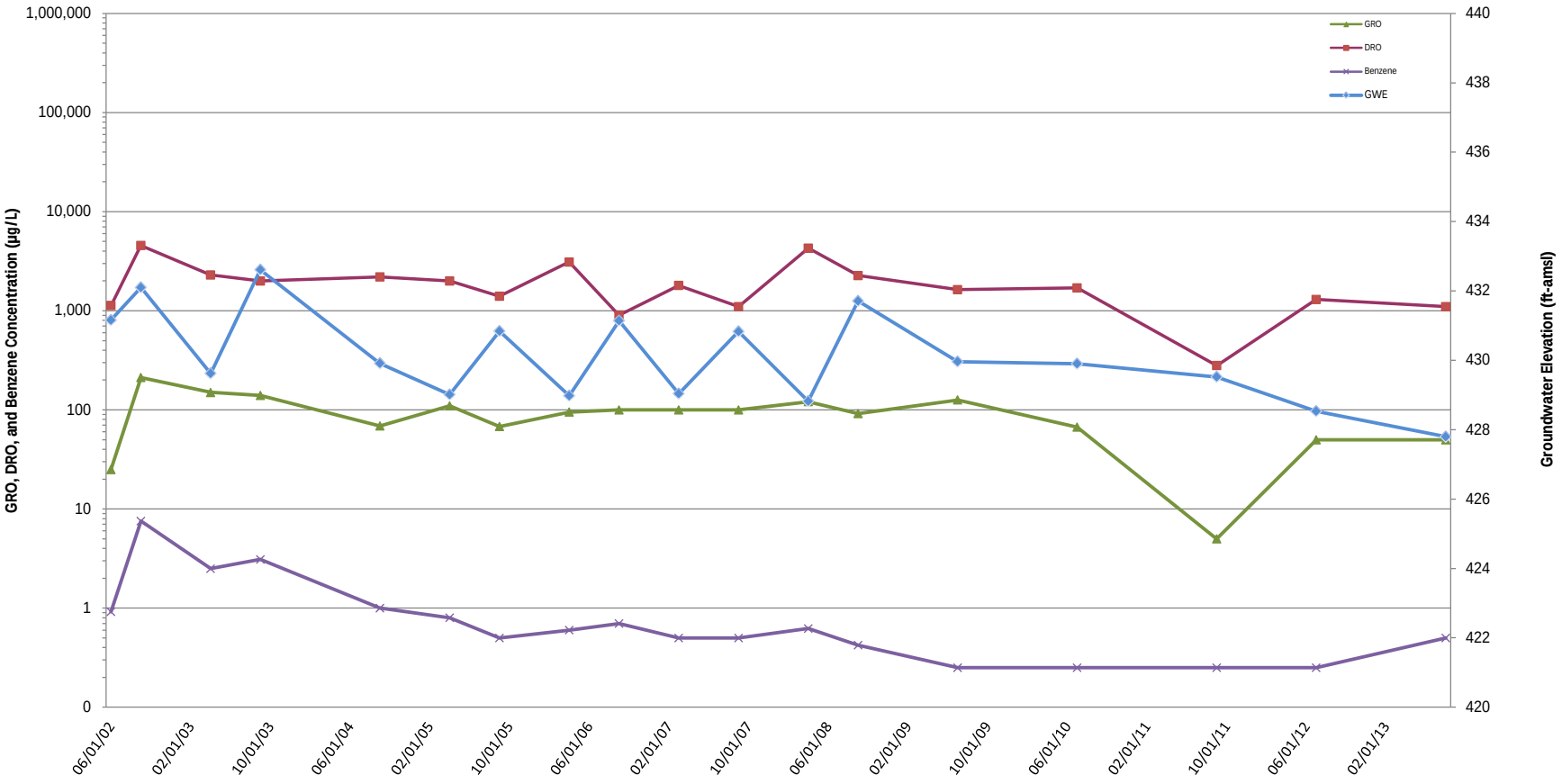
FIGURE
B-10



LEGEND:

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GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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410 DRIVEWAY ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well AR-81 Historical Groundwater Elevation and Analytical Data

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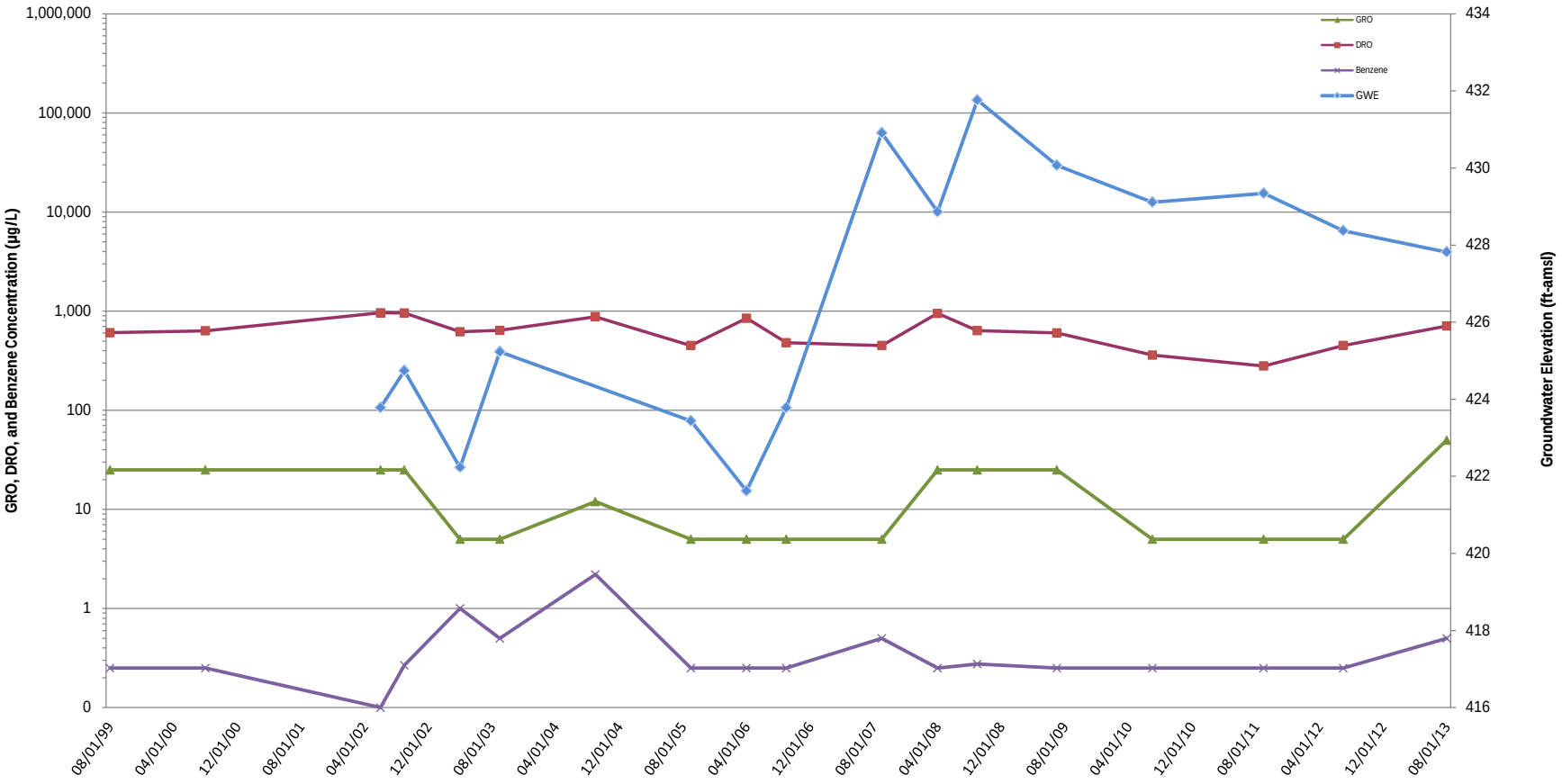
FIGURE
B-11



LEGEND:

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GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well AR-85 Historical Groundwater Elevation and Analytical Data

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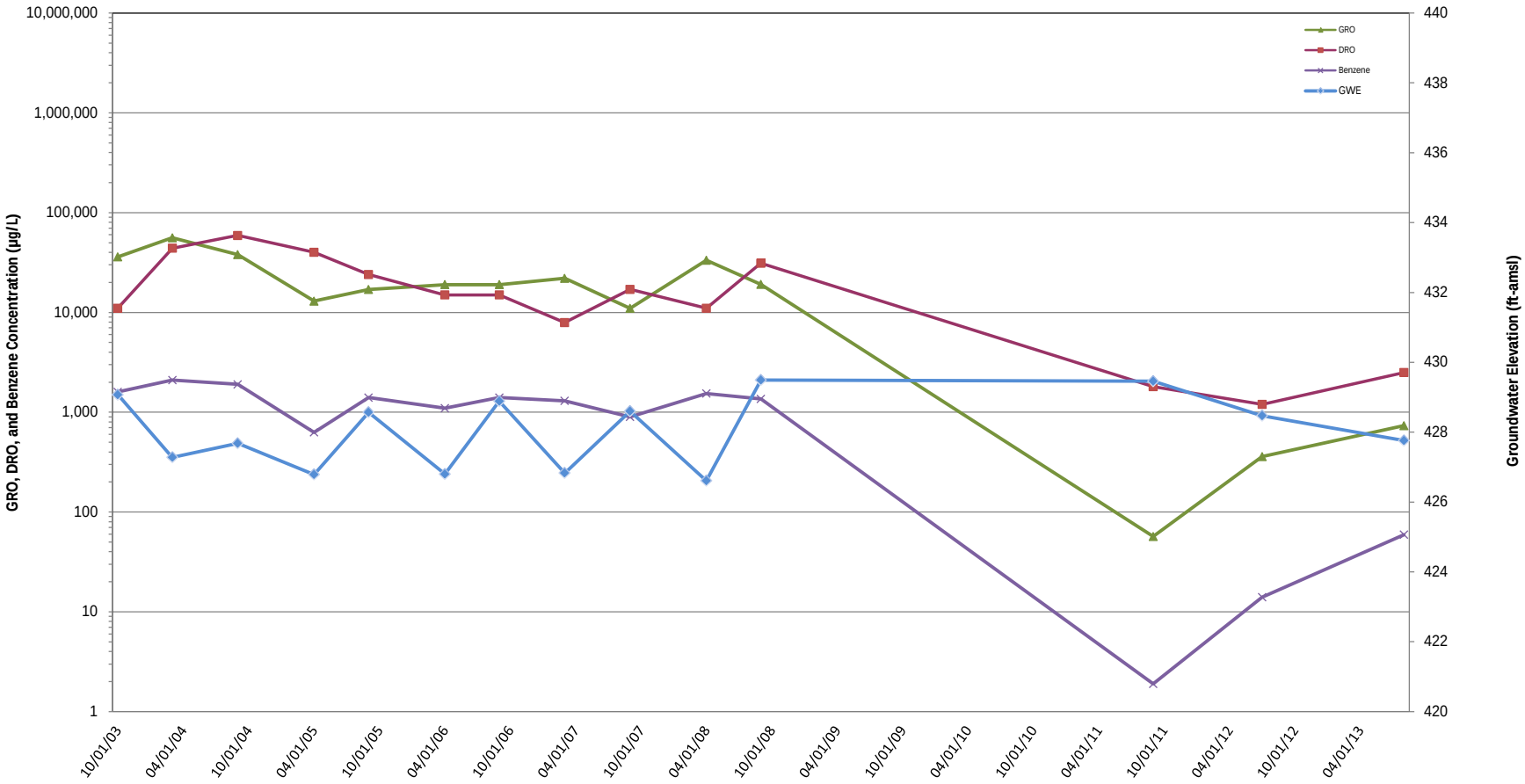
FIGURE
B-12



LEGEND:

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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-3 Historical Groundwater Elevation and Analytical Data

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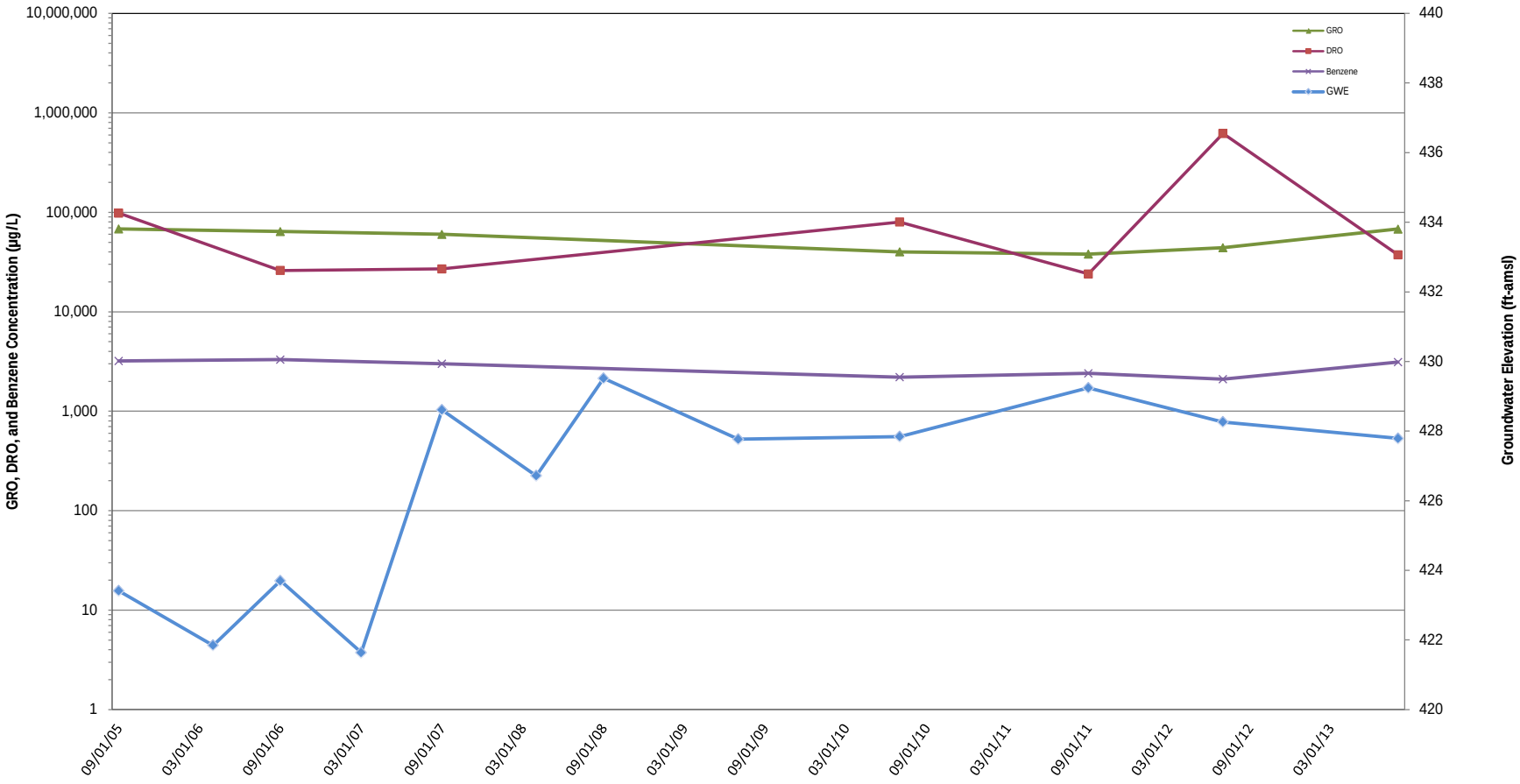
FIGURE
B-13



LEGEND:

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GWE = Groundwater elevation
µg/L = micrograms per liter
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410 DRIVEWAY ST. FAIRBANKS. ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-4 Historical Groundwater Elevation and Analytical Data

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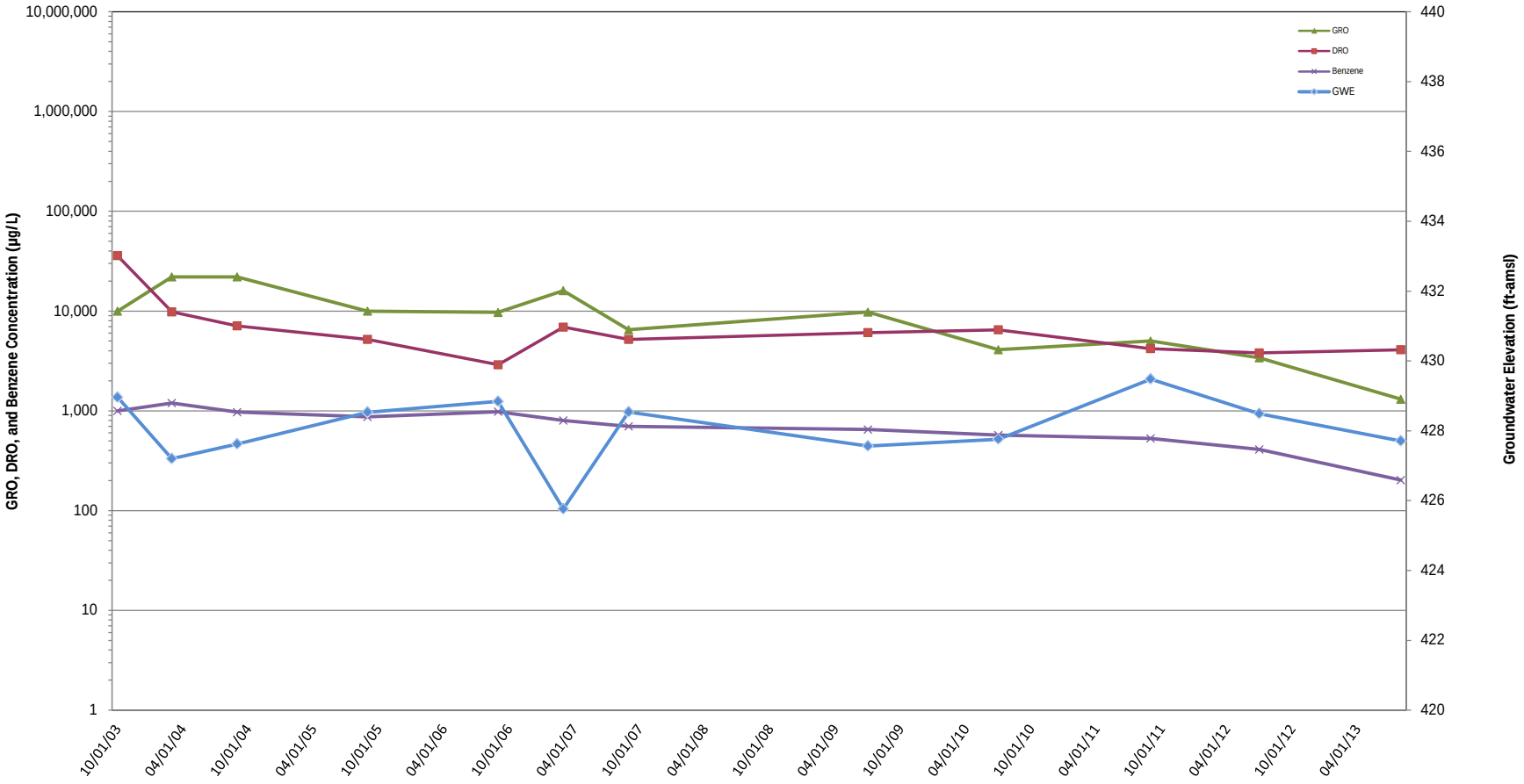
FIGURE
B-14



LEGEND:

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GWE = Groundwater elevation
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410 DRIVEWAY ST. FAIRBANKS. ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-5 Historical Groundwater Elevation and Analytical Data

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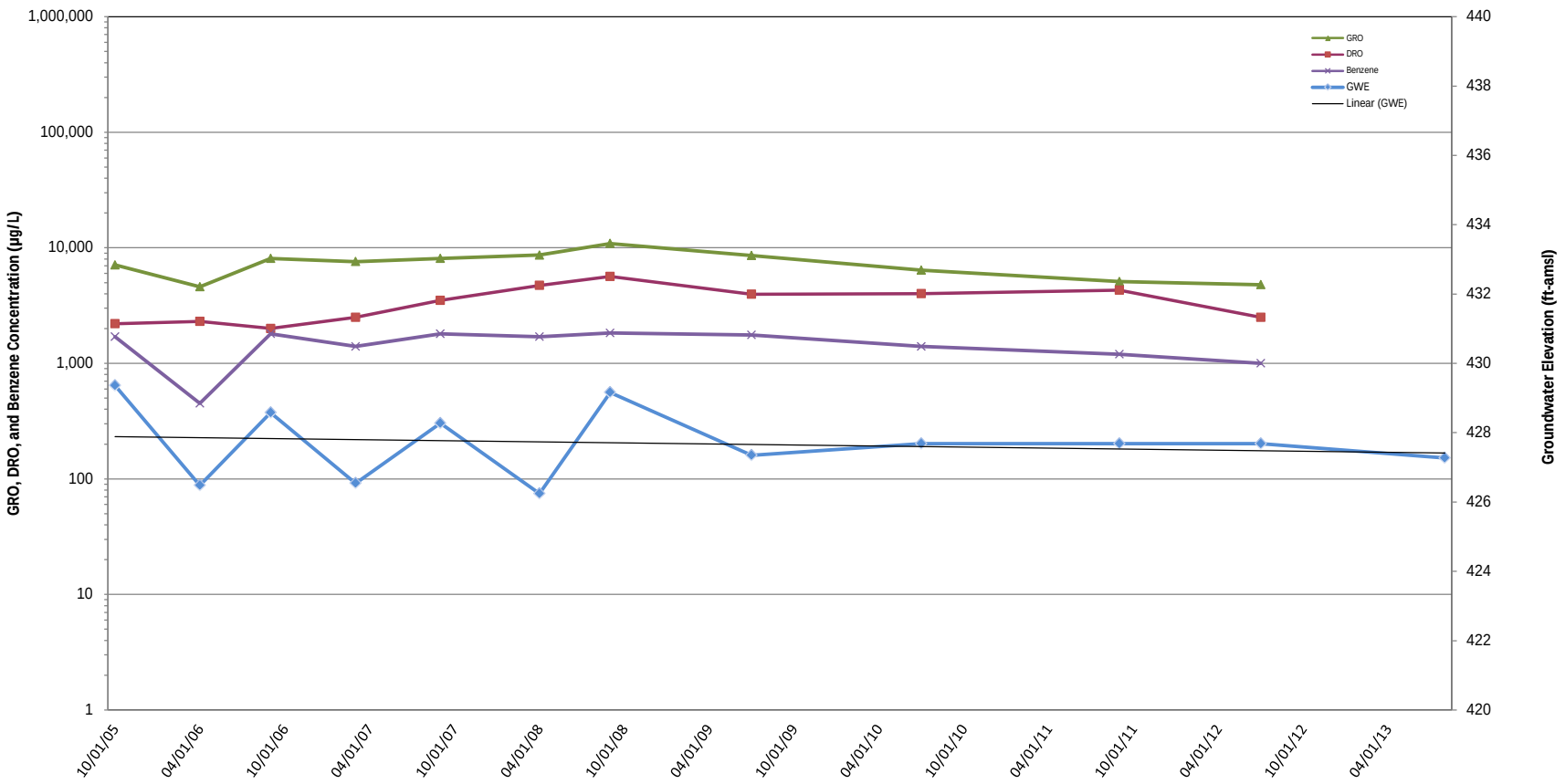
FIGURE
B-15



LEGEND:

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µg/L = micrograms per liter
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Monitoring Well MW-7 Historical Groundwater Elevation and Analytical Data

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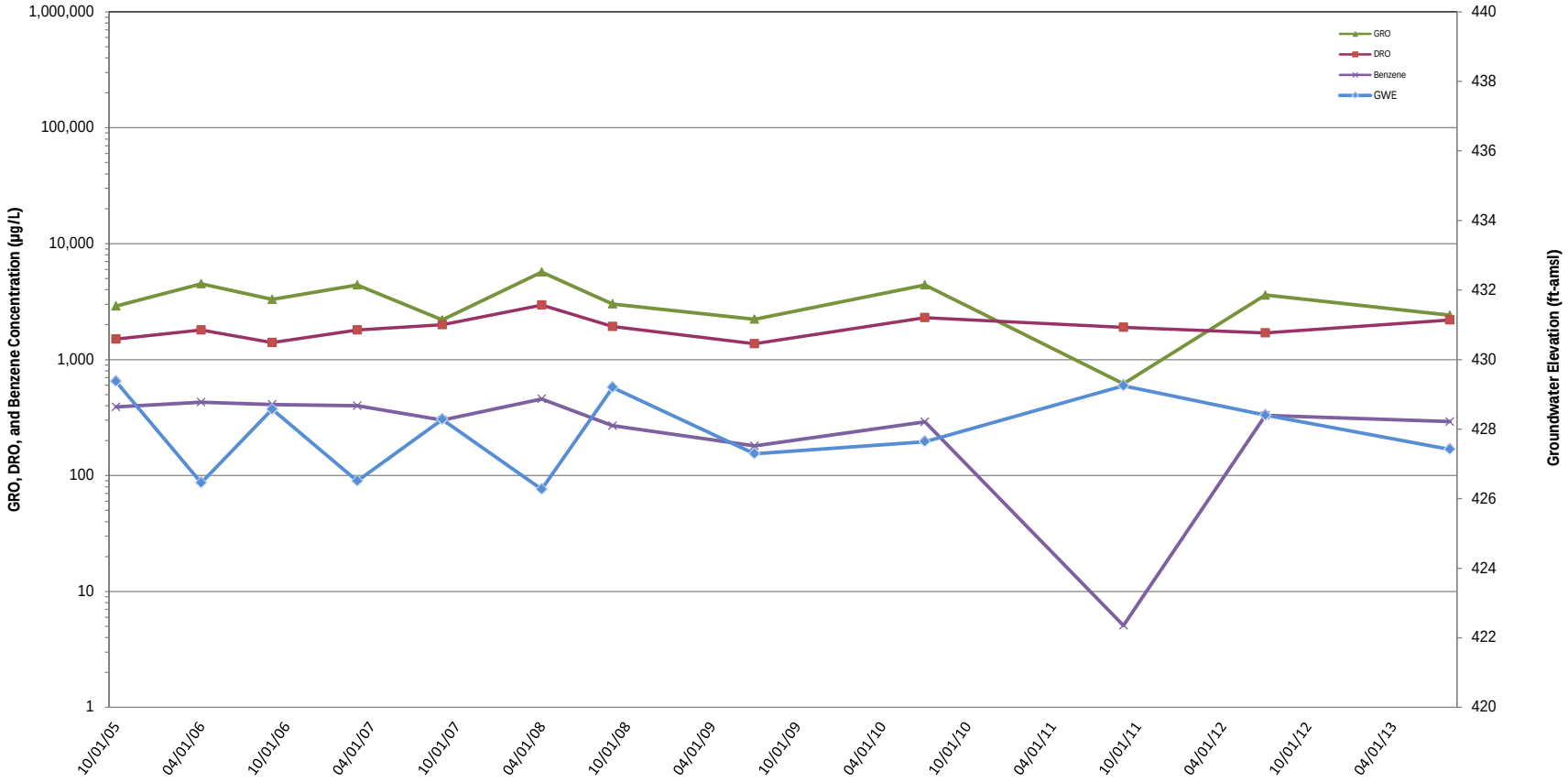
FIGURE
B-16



LEGEND:

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410 DRIVEWAY ST, FAIRBANKS, ALASKA
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Monitoring Well MW-8 Historical Groundwater Elevation and Analytical Data

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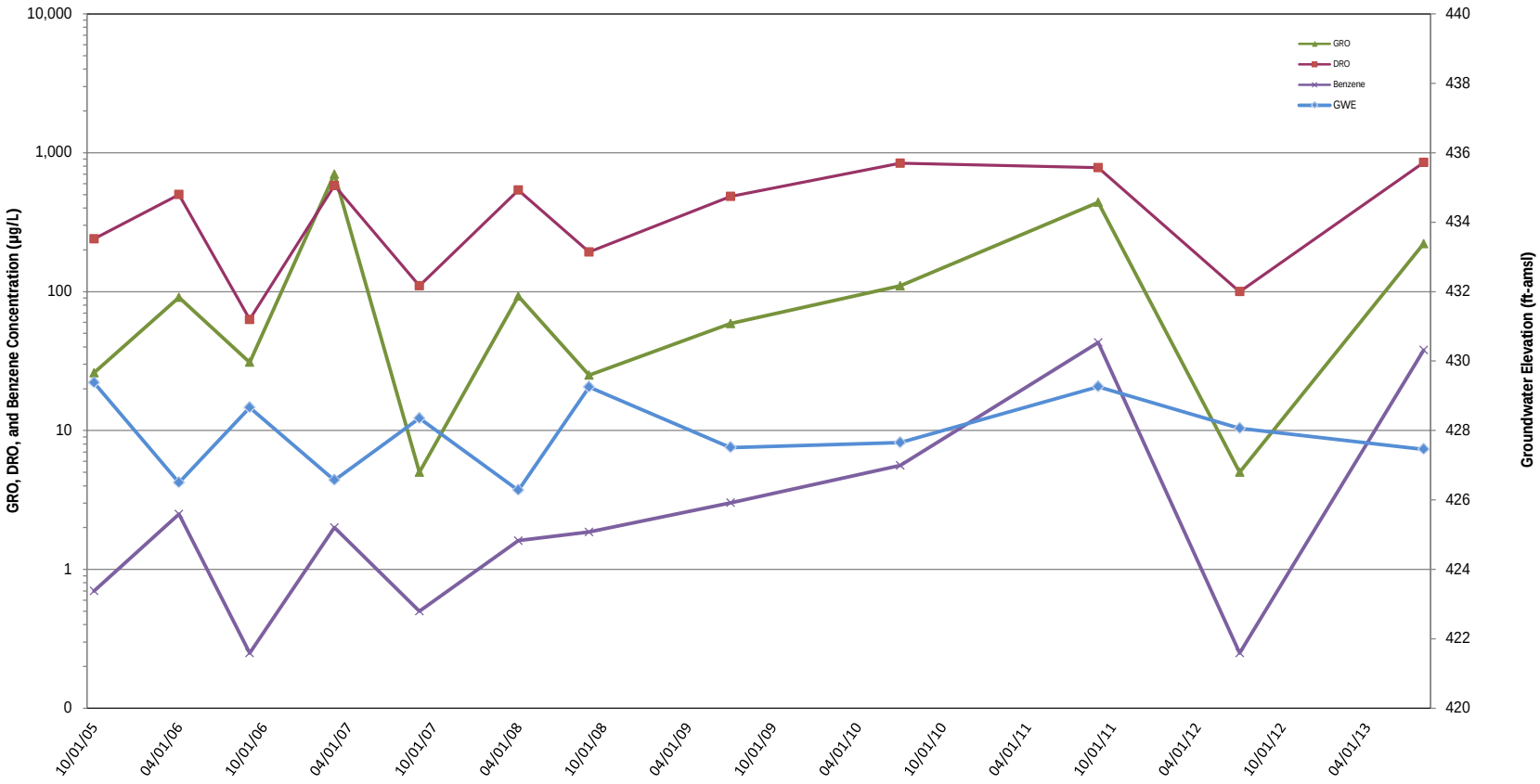
FIGURE
B-17



LEGEND:

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410 DRIVEWAY ST. FAIRBANKS. ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-9 Historical Groundwater Elevation and Analytical Data

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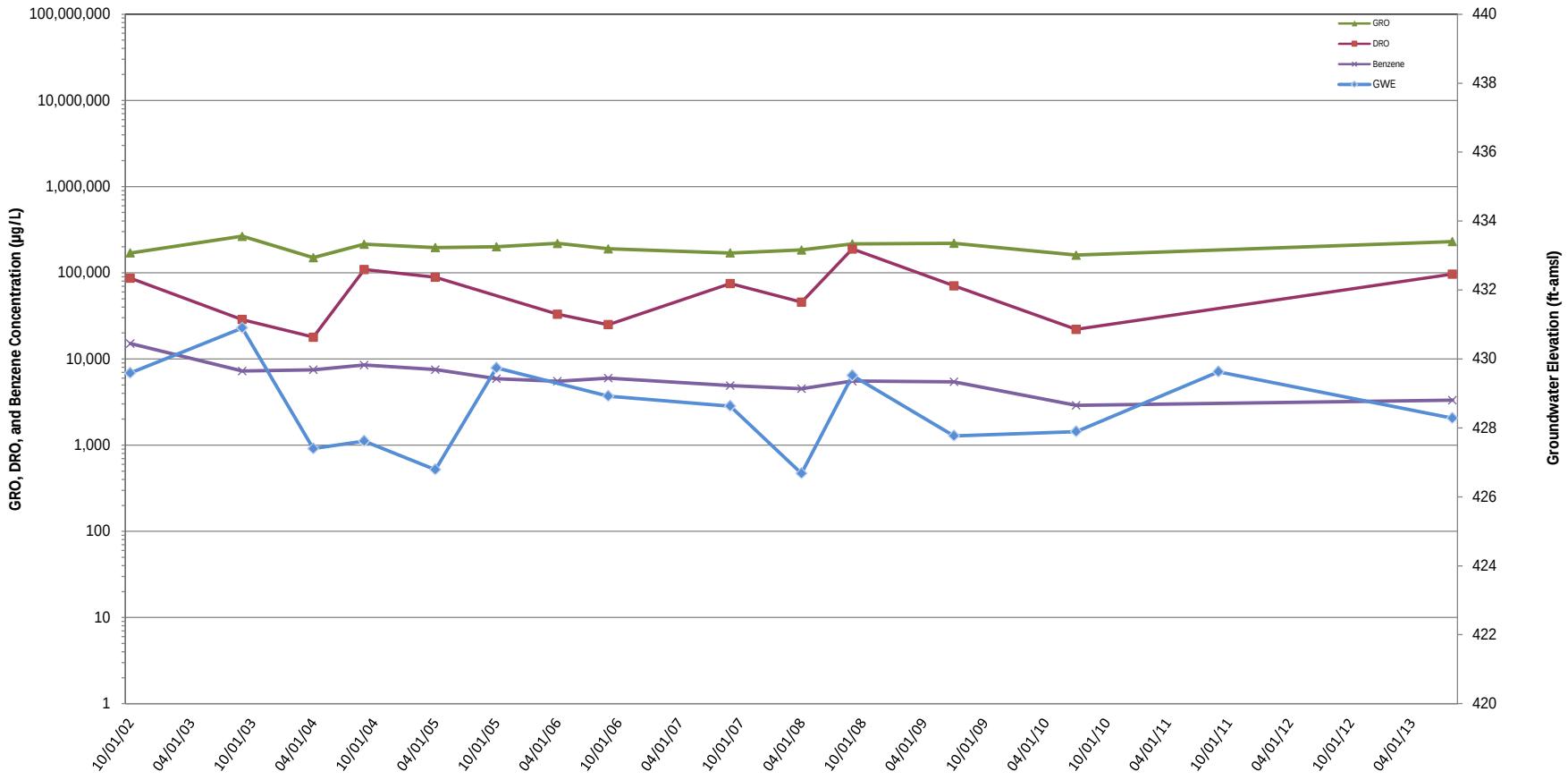
FIGURE
B-18



LEGEND:

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GWE = Groundwater elevation
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FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-2 Historical Groundwater Elevation and Analytical Data

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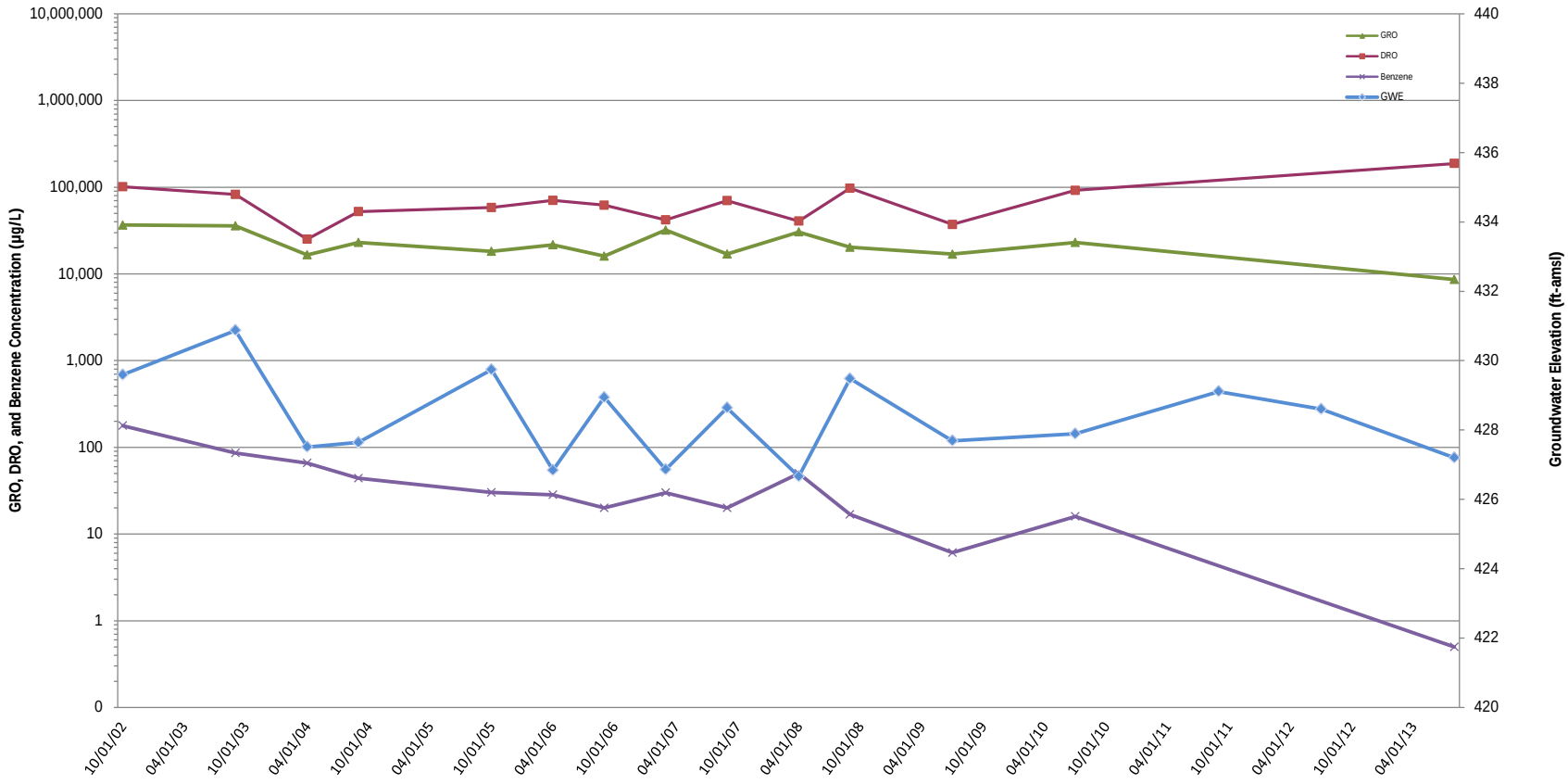
FIGURE
B-19



LEGEND:

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328.5 ILLINOIS ST. FAIRBANKS. ALASKA
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Monitoring Well GEI-3 Historical Groundwater Elevation and Analytical Data

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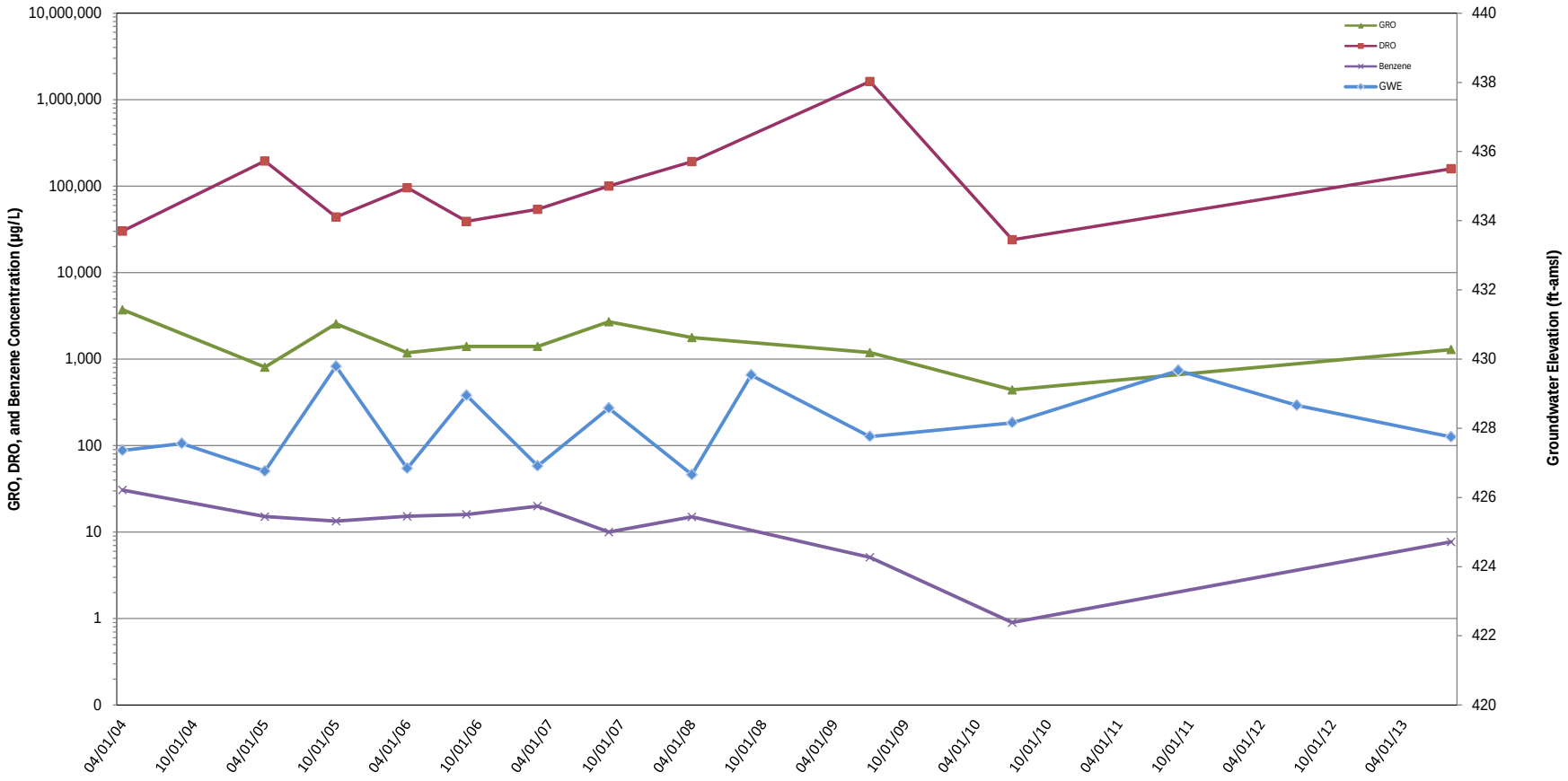
FIGURE
B-20



LEGEND:

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328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-4 Historical Groundwater Elevation and Analytical Data

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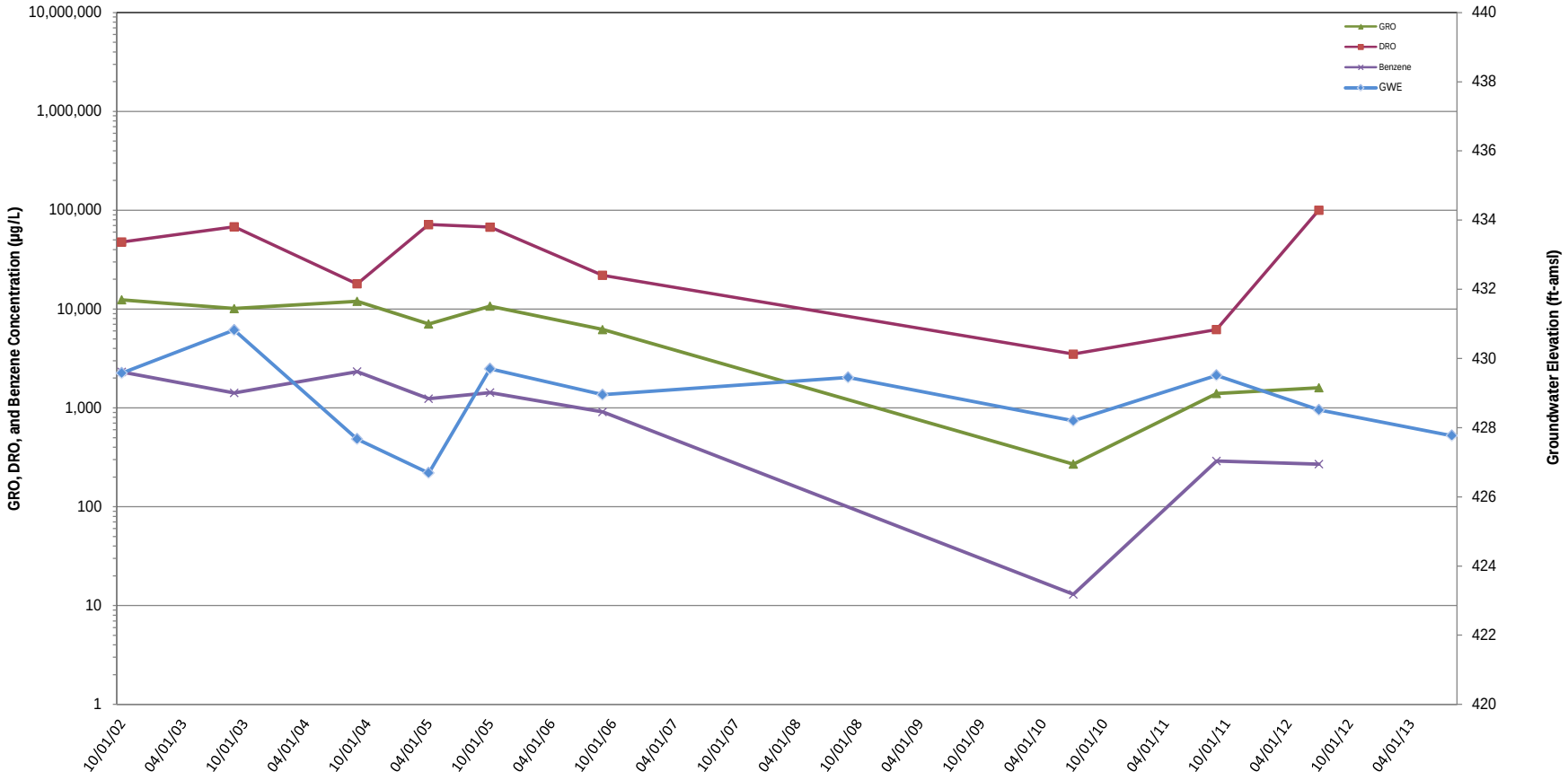
FIGURE
B-21



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328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-5 Historical Groundwater Elevation and Analytical Data

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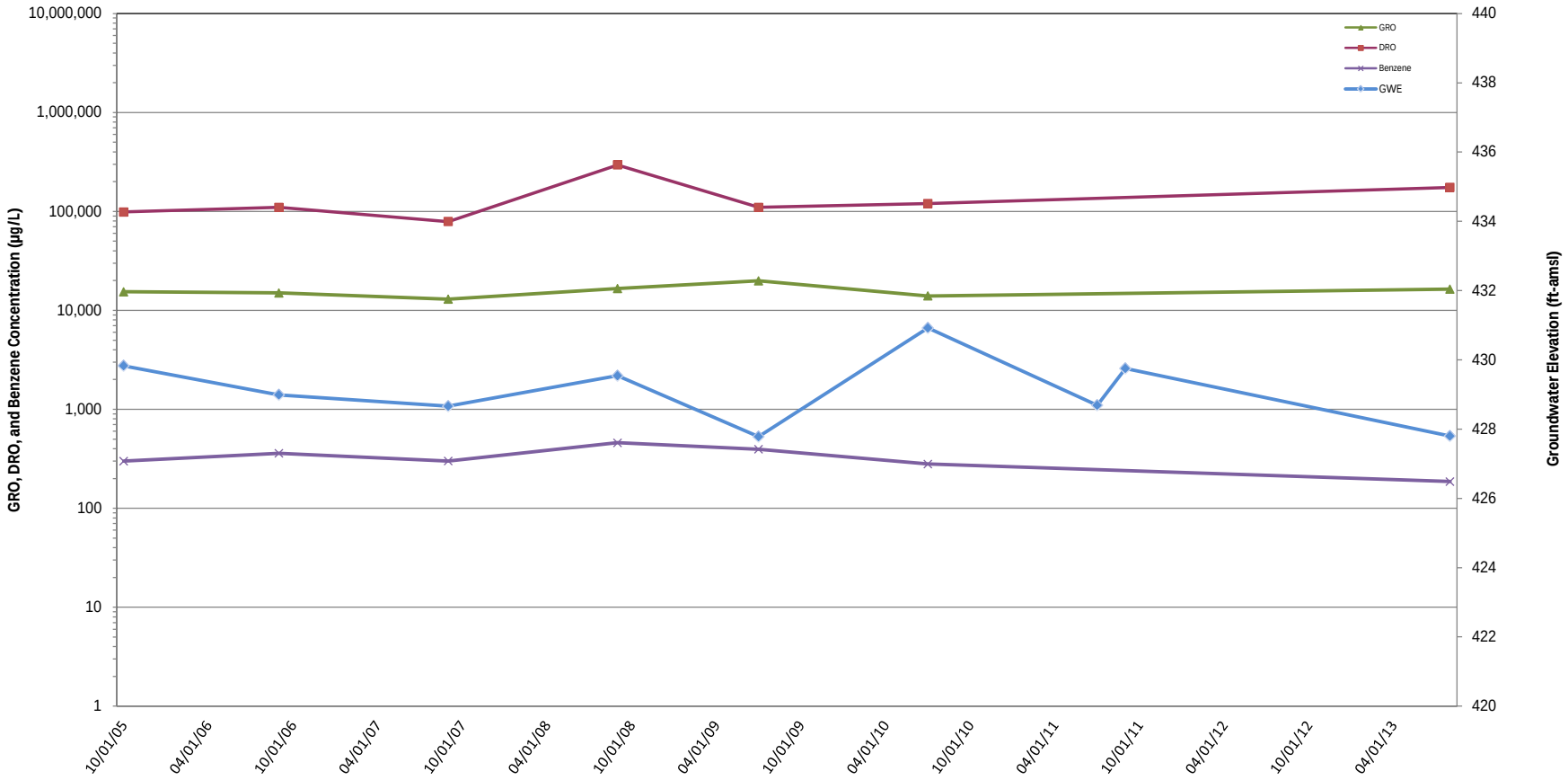
FIGURE
B-22



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FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-7 Historical Groundwater Elevation and Analytical Data

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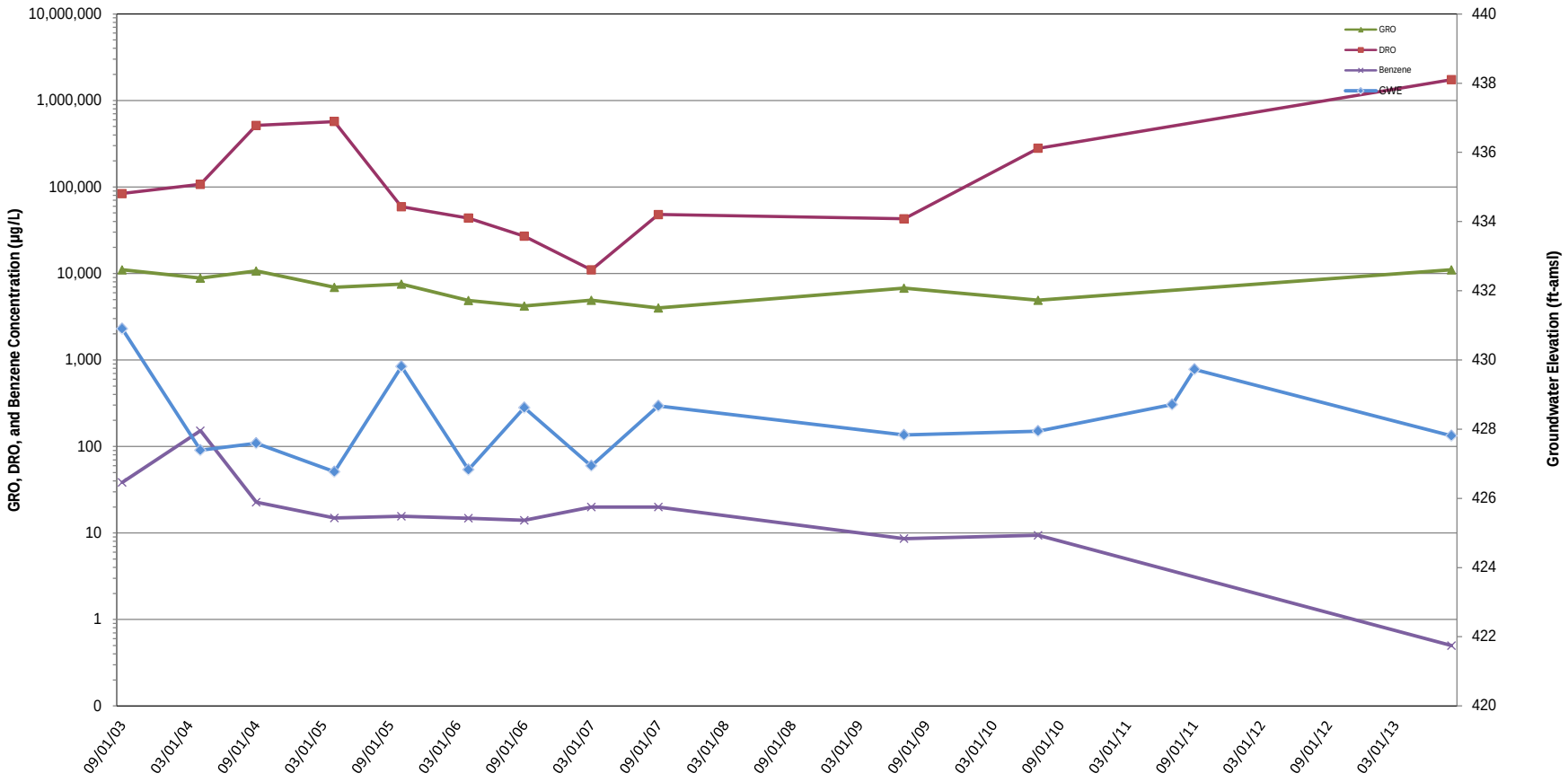
FIGURE
B-23



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328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-8 Historical Groundwater Elevation and Analytical Data

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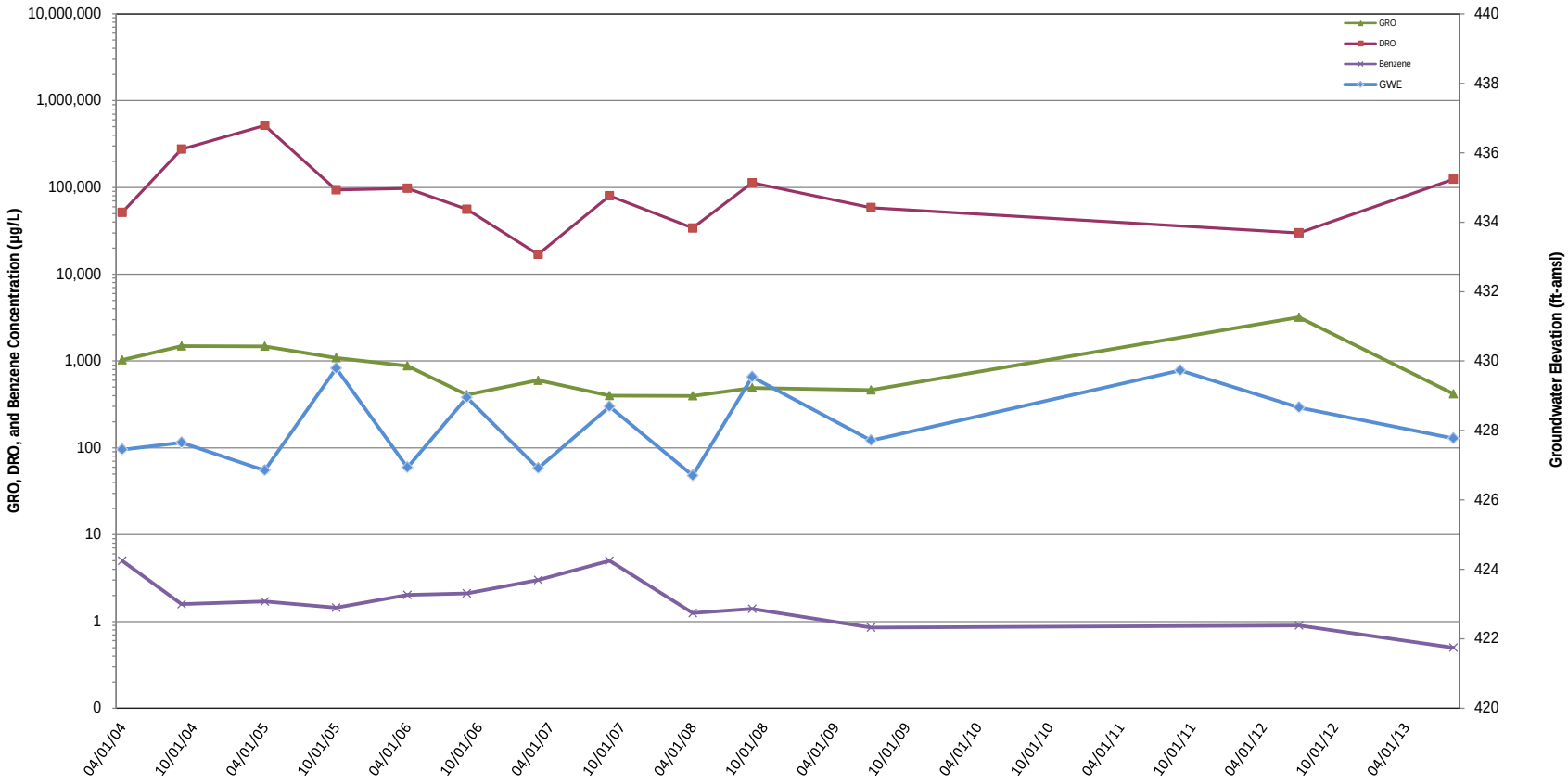
FIGURE
B-24



LEGEND:

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ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-9 Historical Groundwater Elevation and Analytical Data

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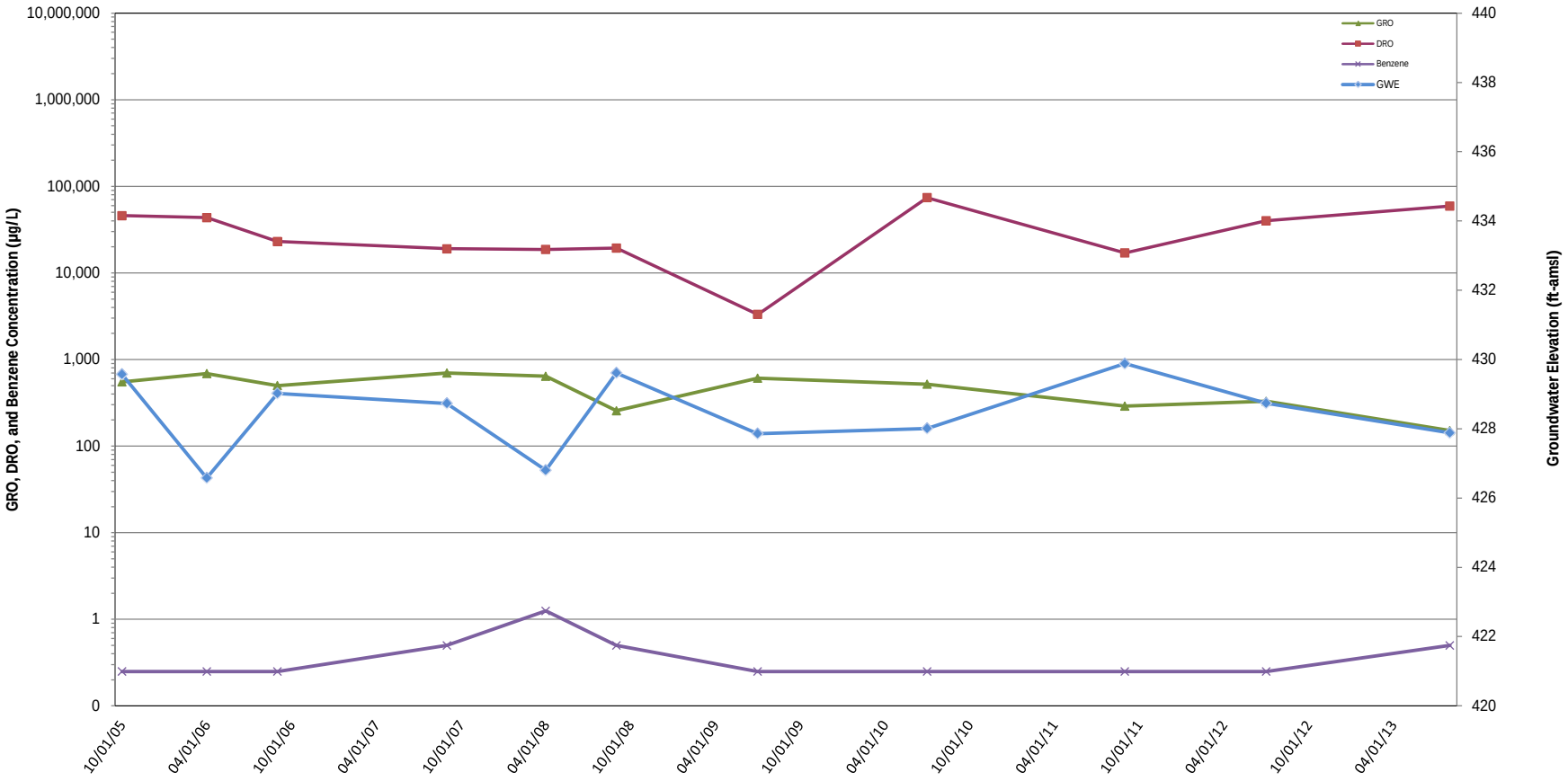
FIGURE
B-25



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ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-10 Historical Groundwater Elevation and Analytical Data

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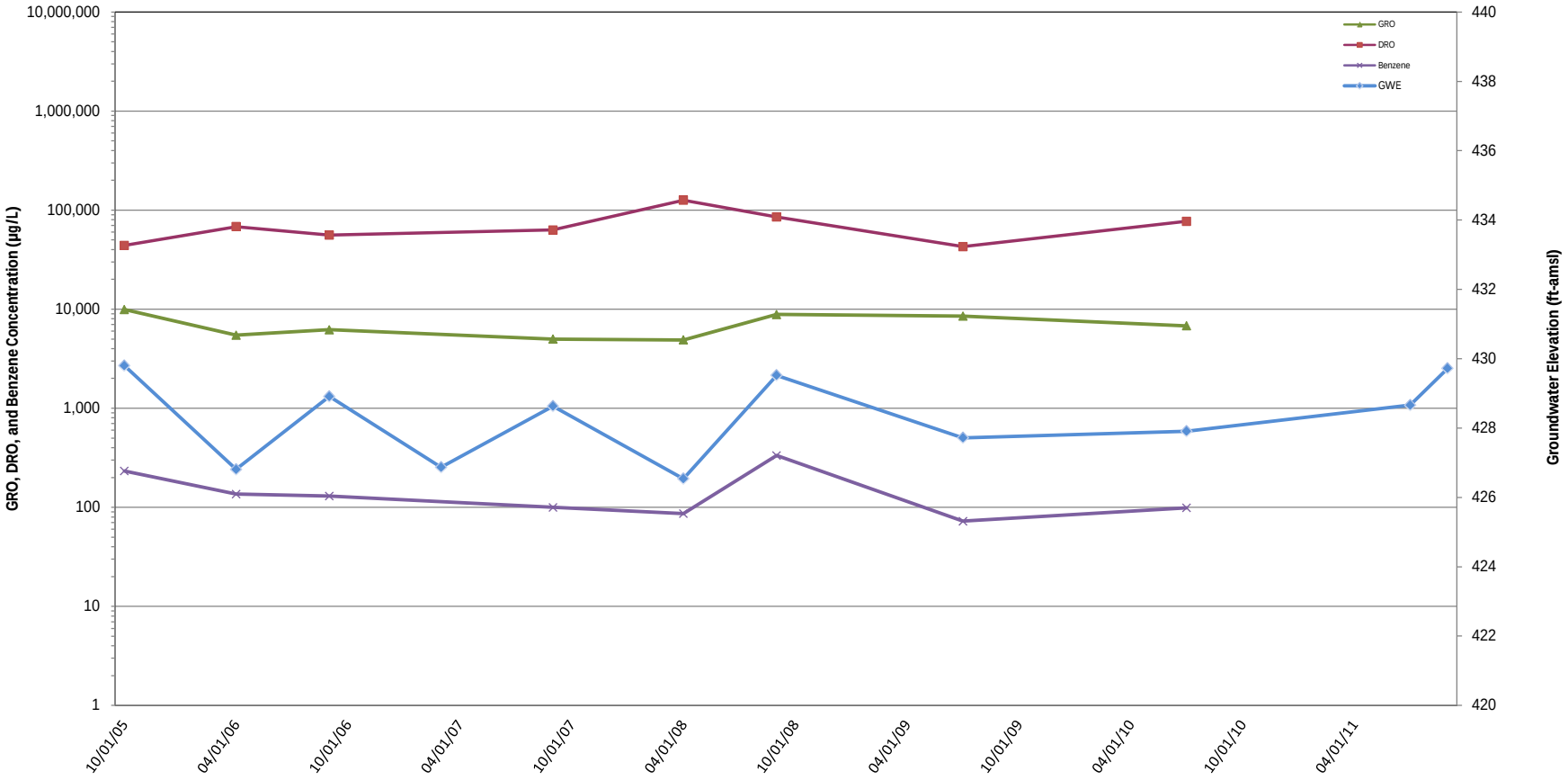
FIGURE
B-26



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well GEI-12 Historical Groundwater Elevation and Analytical Data

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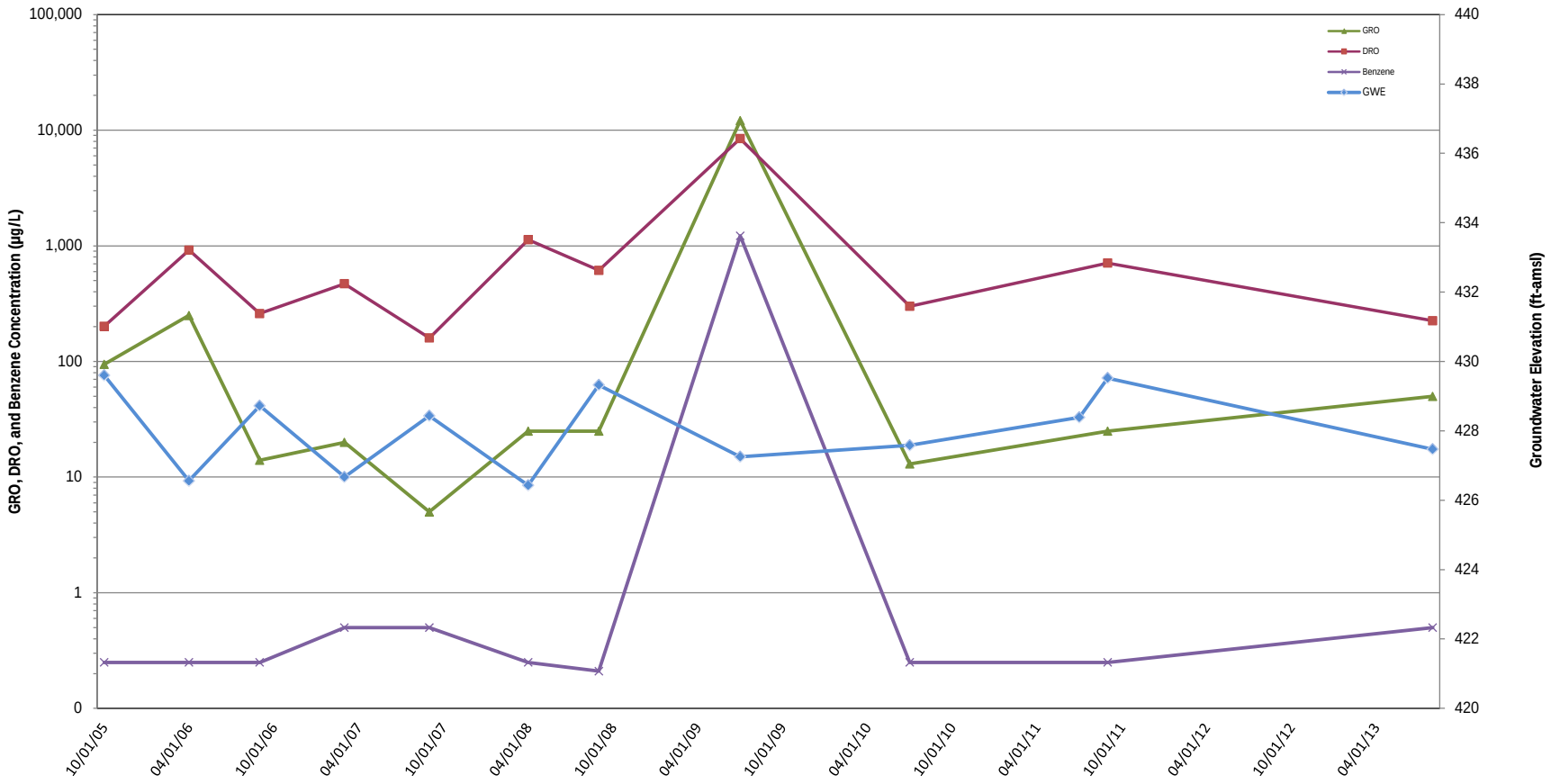
FIGURE
B-27



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-2 Historical Groundwater Elevation and Analytical Data

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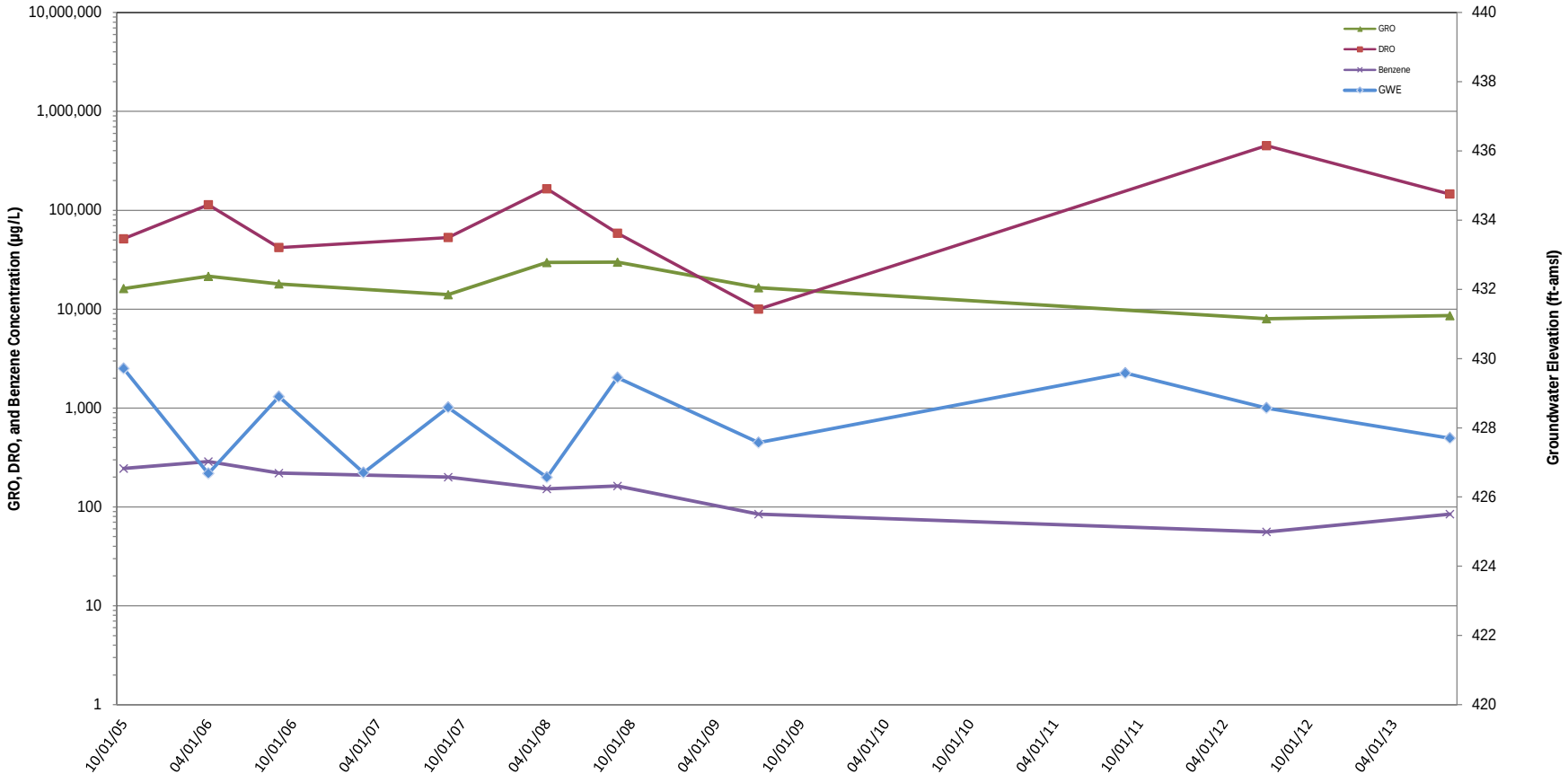
FIGURE
B-28



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-5 Historical Groundwater Elevation and Analytical Data

ARCADIS
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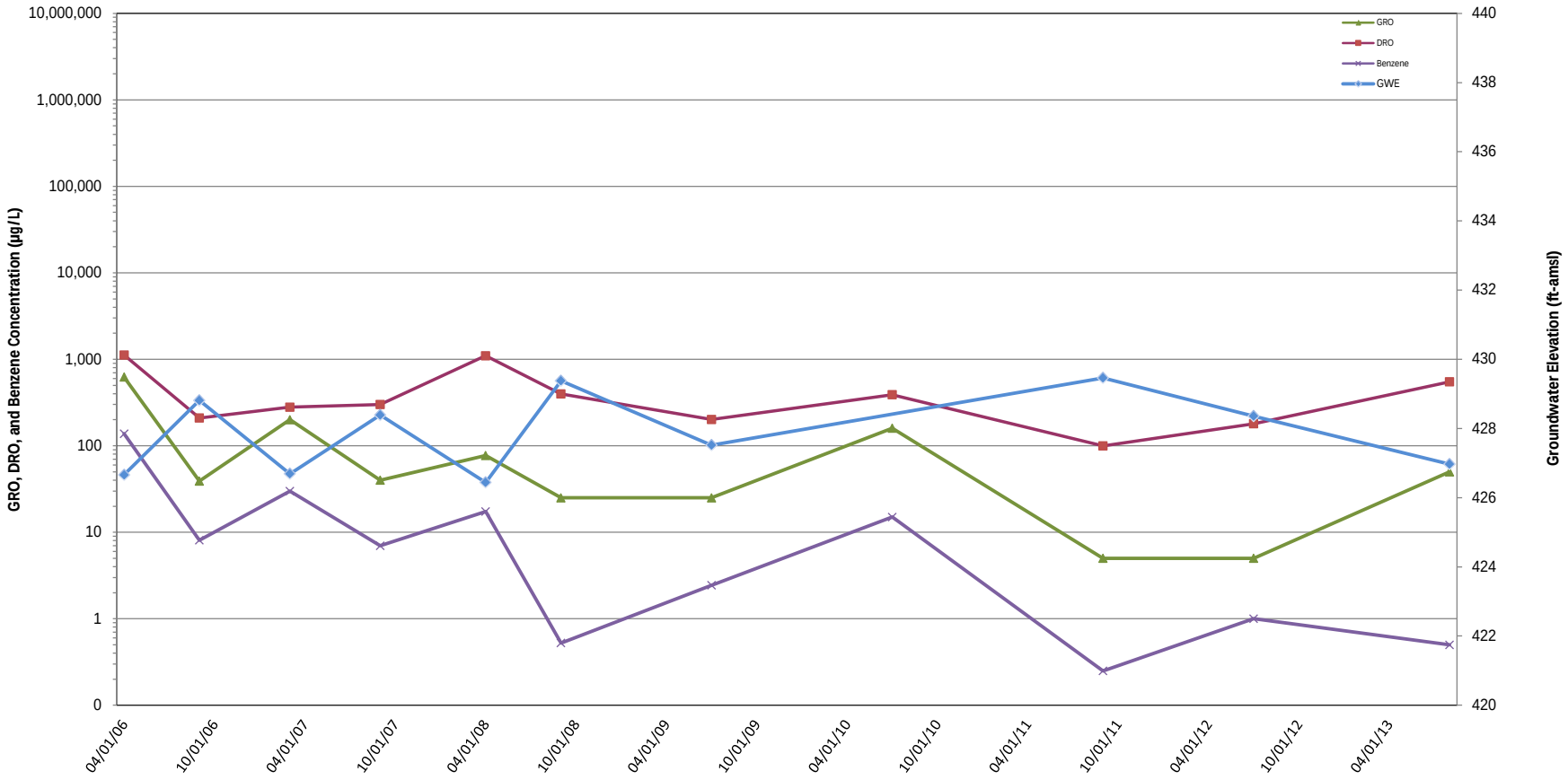
FIGURE
B-29



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well MW-6 Historical Groundwater Elevation and Analytical Data

ARCADIS
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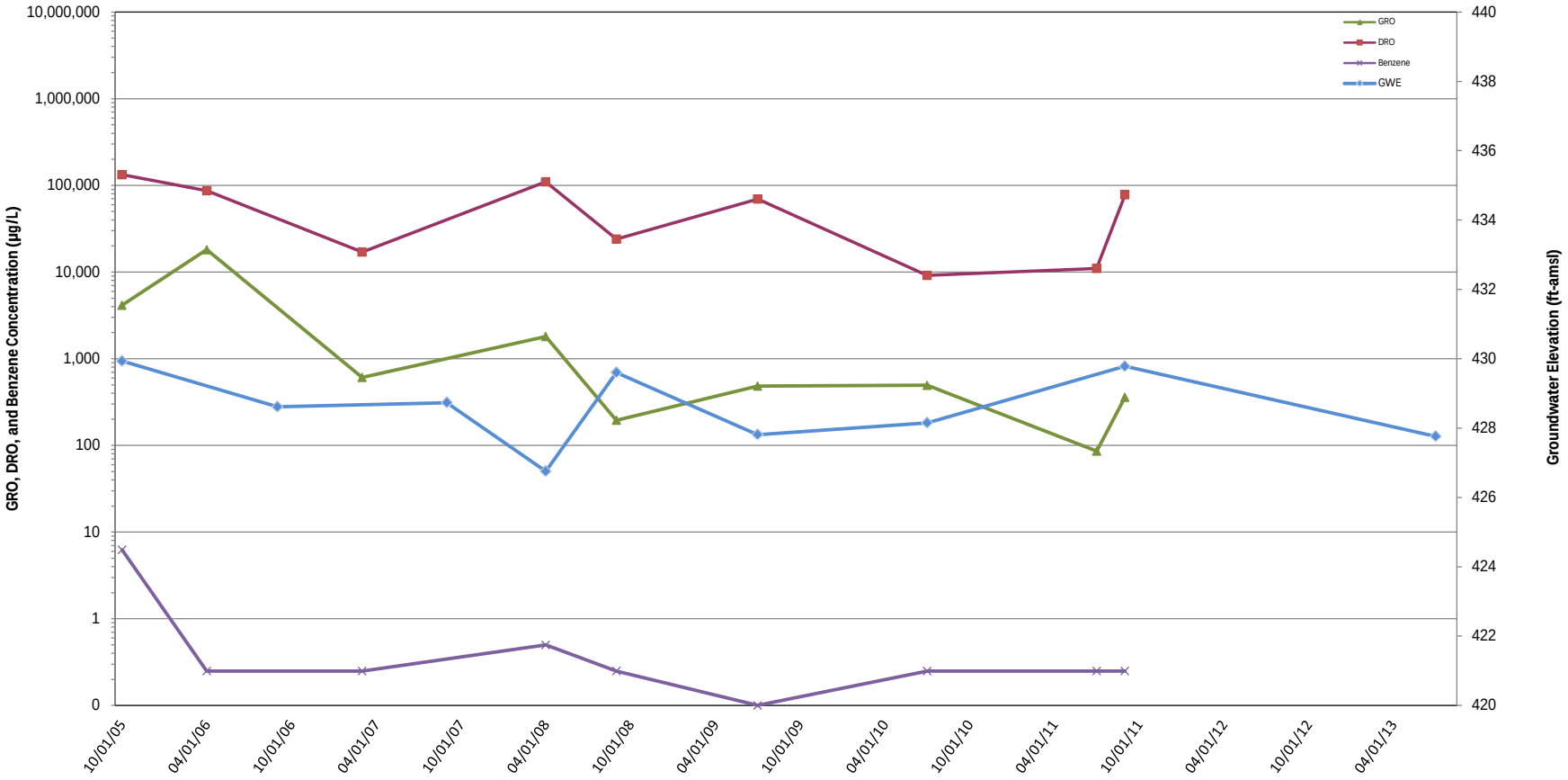
FIGURE
B-30



LEGEND:

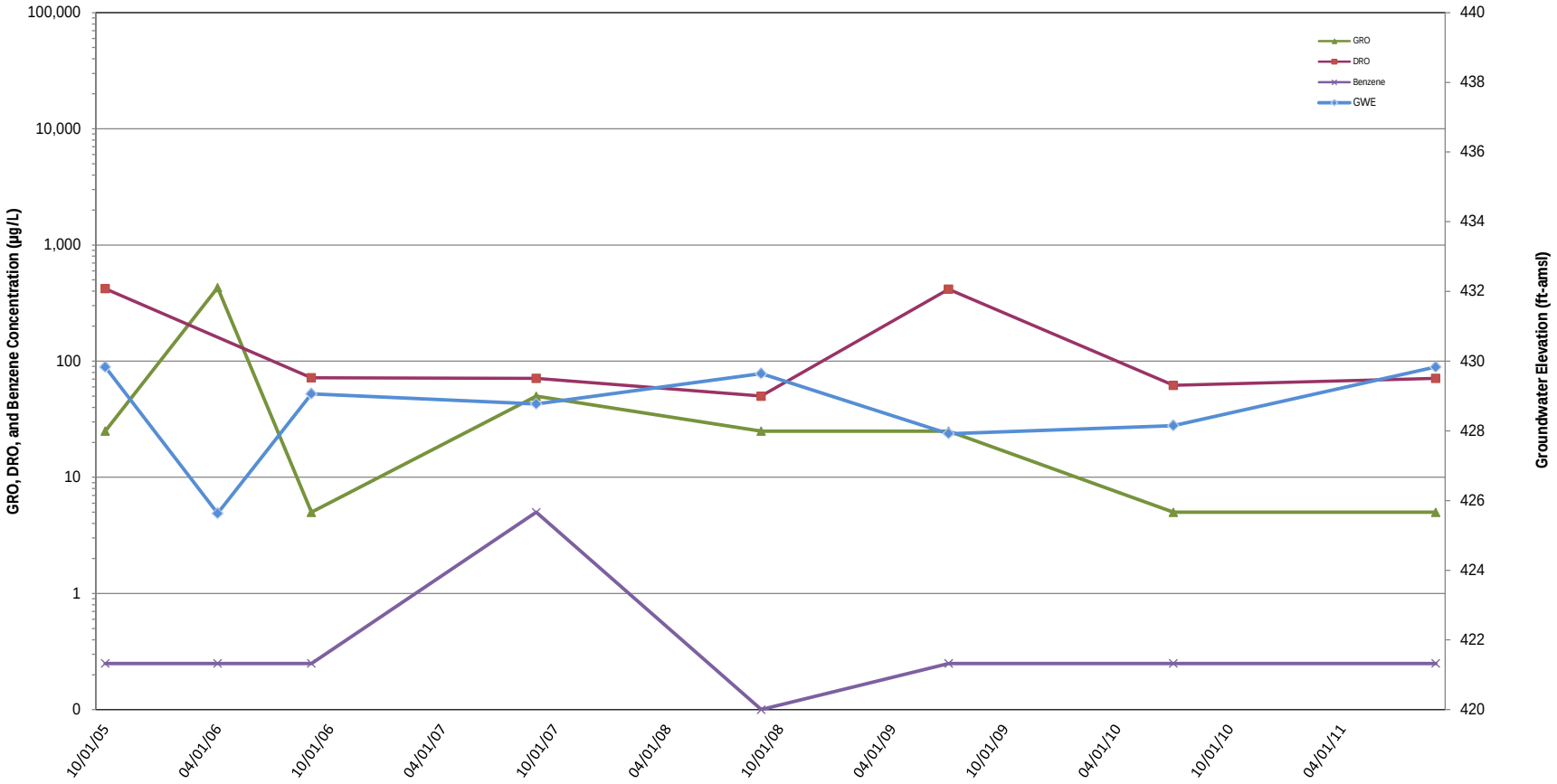
GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well K-5 Historical Groundwater Elevation and Analytical Data

ARCADIS
Infrastructure · Water · Environment · Buildings

FIGURE
B-31



LEGEND:

GRO = Gasoline range organics
DRO = Diesel range organics
GWE = Groundwater elevation
µg/L = micrograms per liter
ft-amsl = Feet above mean sea level
Used half of detection limit value for non-detect results

FORMER UNOCAL TERMINAL 306456
328.5 ILLINOIS ST, FAIRBANKS, ALASKA
ANNUAL 2013 GROUNDWATER MONITORING REPORT

Monitoring Well K-7 Historical Groundwater Elevation and Analytical Data

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FIGURE
B-32

ARCADIS

Appendix A

Field Data Sheets

7/30/13

FAIR Chevron #7001430

418 Illinois st. Fairbanks, AK

2013 Annual Groundwork Monitoring

10:35 AKST FAIR HASP Approval Received from Dan Carrier

10:35 Mobilize to the site, Review HASP, Take HASP Test, Sign HASP, Review JSA's, Pick up JSAs, Sign up JSAs; Review, OE Tents, Hot ID, of Use, No FOBK, stop work Authority, Completed site tour stopping in to say hi & check in w/ Sourdough Fuel, ABC; ACS Calibrate PID

Review Scope - starting @ FAIR Chevron Begin Gauging Wells & setting Hydra Sleeves

Well ID	DTP (ft btoc)	DTW (ft btoc)	DTB (ft btoc)	PID (ppm)	Comment
TH-10	N/A	15.55	23.90	4.0	
TH-7	N/A	17.26	23.56	0.0	
TH-1	N/A	17.58	23.14	150.4	
TH-5	N/A	14.62	22.42	31.8	
TH-2	N/A	14.64	21.55	480	
MW-23*	N/A	17.33	30.60	0.5	Casing and Cover bent
MW-25	17.80	17.90	—	122.7	No hydra Sleeve set

Notes: * Do not use GW elevation for GW contouring

13:40 Complete Mid-day health & Safety Tailgate Meeting

DGB

7/30/13

FAIR Texaco #211815

410 Driveway Street, Fairbanks, AK

2013 GW/M Event (Annual)

13:45 Mobilize to ACS to get key to gate access; MW-14 (4 inch)

Well ID	DTP (ft btoc)	DTW (ft btoc)	DTB (ft btoc)	PID (ppm)	Comments
MW-2	Could	Not	Lo -	ca -	te
MW-10	Could	Not	Lo -	ca -	te
MW-9	N/A	13.99	21.59	0.0	
MW-1	~~NA~~	13.57 ~~Not~~	~~[illegible]~~ 26.90	0.1	Weights 1/2"
MW-3	N/A	14.98	17.33	0.0	
MW-5	N/A	13.80	20.43	0.0	
MW-8	N/A	14.19	21.12	0.0	
MW-7	N/A	15.93	21.13	0.0	
MW-4	N/A	14.65	20.18	576	
AR-81	N/A	14.36	18.64	0.0	
AR-85	N/A	14.50	17.73	0.0	

DVan Parked over well

Begin Gauging @ 06456

Hydra Sleeves Set in all 211815 wells w/ exception of MW-7

DGB

7/30/13 FAIR Unocal #306456

328 1/2 Illinois Street

2013 Annual GW/M Event

Begin Gauging Wells & Setting HydraSleeves

Well ID	DTP (ft btoc)	DTW (ft btoc)	DTB (ft btoc)	PID (ppm)	Comments ~~product~~
K-7	NOT GAUGED (NO ACCESS)				
K-5		16.00		18.3	
GEI-11	No Access Agreement				
MW-13	No Access Agreement				
MW-6	N/A	19.95	25.24	0.0	
GEI-6	N/A	13.90	17.24	3.3	
MW-1	N/A	16.47 ~~13.57~~	21.99 ~~21.44~~	0.6 ~~0.1~~	~~No Bolts~~ (1/2")
MW-2	N/A ~~Can't~~	16.47 ~~Not~~	21.94 ~~Locate~~	0.0 ~~0.1~~	
MW-4	N/A	19.63	24.20	15.3	
MW-14	N/A	15.79	19.12	0.4	
GEI-10	N/A	15.34	17.50	0.0	Well Monument Needs Replacing
GEI-5	N/A	14.38	15.21	104.8	
GEI-9	N/A	16.50 ~~12.6~~	19.64 ~~21.41~~	0.3 ~~12.6~~	FROM HEAVED BROKEN TOP
MW-3	N/A	16.55	20.05	0.0	
MW-5	N/A	16.30	21.41	12.6	
GEI-1	N/A	16.20	18.70	0.0	
GEI-2	N/A	16.50 ~~17.06~~	Not Measured	~~360~~ 130	
GEI-3	N/A	17.04	20.06	360	
GEI-4	N/A	16.74	19.99	112	
GEI-7	N/A	16.38	—	144	
GEI-8	N/A	16.70	19.56	0.0	
GEI-12	obstructed by tanks		—	—	
MW-15	N/A	15.64	19.13	213.8	

7/30/13 FAIR

2013 Annual GW M Event

1800 Complete Field Work for the day - Mobilize to eat dinner

18:30 Complete Emailing JD H's to Dan Carrier.

DGB

7/31/2013 FAIR Fairbanks, AK

2013 Annual GW Monitoring

8:00 Arrive Onsite, Complete PTW and H&S meeting, Review & dirty up JSAs, Review Emergency Procedures, OE Tent, Operational Discipline, Stop Work Authority, + H2 F03K

8:30 Complete PPE Check
Prep to Begin Gauging Remaining wells.

12-12:30 Mob off site for Lunch

12:30-12:45 Mid-Day Safety Meeting

12:45-17:45 Complete Well Gauging and Hydro Sleeve Installation

8/01/13 FAIR Chevron #1001480
418 Illinois st. Fairbanks, AK

8:00 Mobilize to Get a Coffee
8:00 - 8:30 prepare sample bottle labels
8:30 - Mobilize to site
Personnel: D. Beaudoin, S. McGuire
Activity: Annual GWM - 2013
Weather: 70s Clear
9:30 Complete PTW, JSAs, Check in w/ Sourdough Fuel
9:40 - Mobilize to pick up ice & additional Delineators
10:00 - Begin Sampling Wells

Well ID	Sample Time	by	Analytes
TH-1	10:15	SM	GRO, DRO,
TH-5	10:50	SM	DRO SGC,
TH-2	12:15	SM	RRO, BTEX
TH-10	13:15	SM	↓
MW-23	13:40	SM	↓
TH-7 (BD-1)	14:10	SM	↓
MW-25	Not Sampled	SM	↓

8/2/13 FAIR Unocal 306456 328½ Illinois St.

Activity: Annual GWM Sampling
Weather: Sunny
Personnel: S. McGuire & M. MacDaniel

800 Arrive on site. Conduct A+S tailgate, review SOW, review Hazards, review HASP, complete PTW.

820 Mob to MW-9 to begin Sampling. Sampling summary table will follow:

Well ID	Sample Time	Comments
GEI-1	1230	LNAPL Present
GEI-2	1300	LNAPL Present
GEI-3	1330	" "
GEI-4	1000	" "
GEI-5	1400	
GEI-6	1430	
GEI-7	920	LNAPL Present
GEI-8	850	" "
GEI-9	1030	" "
MW-5	1600	" "
MW-6	1630	
~~MW-10~~ GEI-10	830	

8/2/13 FAIR Unocal 306456
Annual GWM Continued...

1700 After gain access to MW-14, ~~could~~ the correct bottle ware could not be determined for the rest of the sample locations on site due to missing the packing list. Could not contact lab to confirm bottles needed for select analytes.

1730 Mobbed off site. Plan to return 8/5 to complete sampling.

8/5/13 Fair Unocal 306456

Activity: 2013 Annual GWM

Personnel: S. McGuire & M. MacDaniel

Weather: Sunny, 80F

920 Arrive on Site. Conducted H+S tailgate, reviewed HASP, reviewed SOW, discussed hazards, completed PTW.

940 Obtained key for fence to access MW-14

950 Began Sampling remaining wells.

Sample Summary table:

Well ID	Sample Time	Comments
MW-1	1200	MS/MSD & BD-1
MW-2	11:15	
MW-3	12:45	
MW-4	13:30	
MW-14	10:00	
MW-15	10:30	

1340 Completed Sampling. Mobbed off-site for lunch.

MM

Texaco 211815

8/5/13 PAH ~~Unocal 306456~~

Activity: 2013 Annual GWM

Personnel: S. McGuire & M. MacDaniel

Weather: Sunny, 80F

1410 Arrive on site. Review HASP, conduct Mid-day H+S tailgate, review SOW, review hazards, complete PTW.

1430 Begin sampling MW-8 via hydra-sleeve Sampling Summary Table follows:

Well ID	Sample Time	Comments
MW-1	1615	
MW-3	1815	
MW-4	1850	MS/MSD
MW-5	1950	
MW-7	NS	
MW-8	1430	BD-1
MW-9	1515	
AR-81	1745	
AR-85	1700	

2000 Completed Sampling. Mobbed off-site.

MM

ARCADIS

Appendix B

Laboratory Analytical Reports

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 23, 2013

Gregory Montgomery
Arcadis US, Inc.
1100 Olive Way
Suite 800
Seattle, WA 98101

RE: Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Dear Gregory Montgomery:
Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Michael MacDaniel, Arcadis US, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10237827001	**TH-1-W-080113**	Water	08/01/13 10:15	08/07/13 09:11
10237827002	**TH-2-W-080113**	Water	08/01/13 12:15	08/07/13 09:11
10237827003	**TH-5-W-080113**	Water	08/01/13 10:50	08/07/13 09:11
10237827004	**TH-7-W-080113**	Water	08/01/13 14:10	08/07/13 09:11
10237827005	**TH-10-W-080113**	Water	08/01/13 13:15	08/07/13 09:11
10237827006	**MW-23-W-080113**	Water	08/01/13 13:40	08/07/13 09:11
10237827007	**BD-1-W-080113**	Water	08/01/13 00:00	08/07/13 09:11
10237827008	**Trip Blank**	Water	08/01/13 00:00	08/07/13 09:11

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10237827001	**TH-1-W-080113**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237827002	**TH-2-W-080113**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237827003	**TH-5-W-080113**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237827004	**TH-7-W-080113**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237827005	**TH-10-W-080113**	Alaska 102/103	MT	4	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237827006	**MW-23-W-080113**	Alaska 102/103	MT	4	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237827007	**BD-1-W-080113**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 23, 2013

General Information:
7 samples were analyzed for Alaska 102/103. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/22616

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237828003

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 1499959)
  - DRO by AK 102
- MSD (Lab ID: 1499960)
  - DRO by AK 102

R1: RPD value was outside control limits.

- MSD (Lab ID: 1499960)
  - DRO by AK 102

QC Batch: OEXT/22719

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237828003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1505493)
  - DRO by AK 102 Silica Gel Clean
- MSD (Lab ID: 1505494)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 23, 2013

QC Batch: OEXT/22719

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237828003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- DRO by AK 102 Silica Gel Clean

R1: RPD value was outside control limits.

- MSD (Lab ID: 1505494)
  - DRO by AK 102 Silica Gel Clean

Additional Comments:

Analyte Comments:

QC Batch: OEXT/22601

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1498326)
  - DRO by AK 102
  - Residual Range Organics AK103
- LCS (Lab ID: 1498327)
  - DRO by AK 102
  - Residual Range Organics AK103
- MS (Lab ID: 1498328)
  - DRO by AK 102
  - Residual Range Organics AK103
- MSD (Lab ID: 1498329)
  - DRO by AK 102
  - Residual Range Organics AK103
- TH-1-W-080113 (Lab ID: 10237827001)
  - DRO by AK 102
  - Residual Range Organics AK103

QC Batch: OEXT/22616

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1499959)
  - DRO by AK 102
- MSD (Lab ID: 1499960)
  - DRO by AK 102

N2: The lab does not hold TNI accreditation for this parameter.

- BD-1-W-080113 (Lab ID: 10237827007)
  - DRO by AK 102
  - Residual Range Organics AK103
- BLANK (Lab ID: 1499957)
  - DRO by AK 102
  - Residual Range Organics AK103
- LCS (Lab ID: 1499958)
  - DRO by AK 102
  - Residual Range Organics AK103

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 23, 2013

Analyte Comments:

QC Batch: OEXT/22616

N2: The lab does not hold TNI accreditation for this parameter.

- MS (Lab ID: 1499959)
  - DRO by AK 102
  - Residual Range Organics AK103
- MSD (Lab ID: 1499960)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-23-W-080113 (Lab ID: 10237827006)
  - DRO by AK 102
  - Residual Range Organics AK103
- TH-10-W-080113 (Lab ID: 10237827005)
  - DRO by AK 102
  - Residual Range Organics AK103
- TH-2-W-080113 (Lab ID: 10237827002)
  - DRO by AK 102
  - Residual Range Organics AK103
- TH-5-W-080113 (Lab ID: 10237827003)
  - DRO by AK 102
  - Residual Range Organics AK103
- TH-7-W-080113 (Lab ID: 10237827004)
  - DRO by AK 102
  - Residual Range Organics AK103

QC Batch: OEXT/22684

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1502585)
  - DRO by AK 102 Silica Gel Clean
- LCS (Lab ID: 1502586)
  - DRO by AK 102 Silica Gel Clean
- TH-1-W-080113 (Lab ID: 10237827001)
  - DRO by AK 102 Silica Gel Clean

QC Batch: OEXT/22719

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1505493)
  - DRO by AK 102 Silica Gel Clean
- MSD (Lab ID: 1505494)
  - DRO by AK 102 Silica Gel Clean

N2: The lab does not hold TNI accreditation for this parameter.

- BD-1-W-080113 (Lab ID: 10237827007)
  - DRO by AK 102 Silica Gel Clean
- BLANK (Lab ID: 1505491)
  - DRO by AK 102 Silica Gel Clean

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PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 23, 2013

Analyte Comments:

QC Batch: OEXT/22719

N2: The lab does not hold TNI accreditation for this parameter.

- LCS (Lab ID: 1505492)
  - DRO by AK 102 Silica Gel Clean
- MS (Lab ID: 1505493)
  - DRO by AK 102 Silica Gel Clean
- MSD (Lab ID: 1505494)
  - DRO by AK 102 Silica Gel Clean
- TH-2-W-080113 (Lab ID: 10237827002)
  - DRO by AK 102 Silica Gel Clean
- TH-5-W-080113 (Lab ID: 10237827003)
  - DRO by AK 102 Silica Gel Clean
- TH-7-W-080113 (Lab ID: 10237827004)
  - DRO by AK 102 Silica Gel Clean

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PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **Alaska 101**
Description: AK101 GCV
Client: Arcadis_Chevron
Date: August 23, 2013

General Information:
7 samples were analyzed for Alaska 101. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/11180

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237828003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1497257)
  - AK101 Gasoline Range Organics
- MSD (Lab ID: 1497258)
  - AK101 Gasoline Range Organics

Additional Comments:

Analyte Comments:

QC Batch: GCV/11180

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 1497258)
  - AK101 Gasoline Range Organics

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PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **Alaska 101**
Description: AK101 GCV
Client: Arcadis_Chevron
Date: August 23, 2013

Analyte Comments:

QC Batch: GCV/11180

N2: The lab does not hold TNI accreditation for this parameter.

- BD-1-W-080113 (Lab ID: 10237827007)
  - AK101 Gasoline Range Organics
- BLANK (Lab ID: 1497254)
  - AK101 Gasoline Range Organics
- LCS (Lab ID: 1497255)
  - AK101 Gasoline Range Organics
- LCSD (Lab ID: 1497256)
  - AK101 Gasoline Range Organics
- MS (Lab ID: 1497257)
  - AK101 Gasoline Range Organics
- MSD (Lab ID: 1497258)
  - AK101 Gasoline Range Organics
- MW-23-W-080113 (Lab ID: 10237827006)
  - AK101 Gasoline Range Organics
- TH-1-W-080113 (Lab ID: 10237827001)
  - AK101 Gasoline Range Organics
- TH-10-W-080113 (Lab ID: 10237827005)
  - AK101 Gasoline Range Organics
- TH-2-W-080113 (Lab ID: 10237827002)
  - AK101 Gasoline Range Organics
- TH-5-W-080113 (Lab ID: 10237827003)
  - AK101 Gasoline Range Organics
- TH-7-W-080113 (Lab ID: 10237827004)
  - AK101 Gasoline Range Organics

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PROJECT NARRATIVE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Arcadis_Chevron
Date: August 23, 2013

General Information:
7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/24592

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237814003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1501685)
  - Toluene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Sample: TH-1-W-080113 **Lab ID: 10237827001** Collected: 08/01/13 10:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**63.4**	mg/L	9.1	20	08/09/13 07:22	08/13/13 13:48		N2
DRO by AK 102 Silica Gel Clean	**31.9**	mg/L	2.3	5	08/09/13 07:22	08/20/13 12:46		N2
Residual Range Organics AK103	**4.4**	mg/L	1.1	1	08/09/13 07:22	08/12/13 15:14		N2
Surrogates								
o-Terphenyl (S)	123	%	50-150	1	08/09/13 07:22	08/12/13 15:14	84-15-1	
o-Terphenyl (S) SG	75	%	50-150	5	08/09/13 07:22	08/20/13 12:46	84-15-1	
n-Triacontane (S)	83	%	50-150	1	08/09/13 07:22	08/12/13 15:14	638-68-6	
n-Triacontane (S) SG	82	%	50-150	5	08/09/13 07:22	08/20/13 12:46		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**459**	ug/L	100	1		08/10/13 13:30		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%	60-120	1		08/10/13 13:30	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 21:46	71-43-2	
Ethylbenzene	**7.3**	ug/L	1.0	1		08/12/13 21:46	100-41-4	
Toluene	ND	ug/L	1.0	1		08/12/13 21:46	108-88-3	
Xylene (Total)	**17.5**	ug/L	3.0	1		08/12/13 21:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		08/12/13 21:46	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		08/12/13 21:46	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/12/13 21:46	460-00-4	

Sample: TH-2-W-080113 **Lab ID: 10237827002** Collected: 08/01/13 12:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**8.7**	mg/L	0.83	2	08/12/13 07:19	08/18/13 19:01		N2
DRO by AK 102 Silica Gel Clean	**4.0**	mg/L	0.42	1	08/12/13 07:19	08/22/13 17:48		N2
Residual Range Organics AK103	**1.6**	mg/L	1.0	1	08/12/13 07:19	08/13/13 19:00		N2
Surrogates								
o-Terphenyl (S)	83	%	50-150	1	08/12/13 07:19	08/13/13 19:00	84-15-1	
o-Terphenyl (S) SG	87	%	50-150	1	08/12/13 07:19	08/22/13 17:48	84-15-1	
n-Triacontane (S)	82	%	50-150	1	08/12/13 07:19	08/13/13 19:00	638-68-6	
n-Triacontane (S) SG	81	%	50-150	1	08/12/13 07:19	08/22/13 17:48		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**40700**	ug/L	1000	10		08/10/13 17:10		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	106	%	60-120	10		08/10/13 17:10	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**477**	ug/L	20.0	20		08/09/13 21:59	71-43-2	
Ethylbenzene	**1050**	ug/L	20.0	20		08/09/13 21:59	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Sample: TH-2-W-080113 **Lab ID: 10237827002** Collected: 08/01/13 12:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Toluene	**2110**	ug/L	20.0	20		08/09/13 21:59	108-88-3	
Xylene (Total)	**7500**	ug/L	60.0	20		08/09/13 21:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	20		08/09/13 21:59	17060-07-0	
Toluene-d8 (S)	99	%	75-125	20		08/09/13 21:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	20		08/09/13 21:59	460-00-4	

Sample: TH-5-W-080113 **Lab ID: 10237827003** Collected: 08/01/13 10:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**2.9**	mg/L	0.40	1	08/12/13 07:19	08/13/13 19:23		N2
DRO by AK 102 Silica Gel Clean	**2.4**	mg/L	0.40	1	08/12/13 07:19	08/22/13 18:11		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/12/13 07:19	08/13/13 19:23		N2
Surrogates								
o-Terphenyl (S)	94	%	50-150	1	08/12/13 07:19	08/13/13 19:23	84-15-1	
o-Terphenyl (S) SG	89	%	50-150	1	08/12/13 07:19	08/22/13 18:11	84-15-1	
n-Triacontane (S)	96	%	50-150	1	08/12/13 07:19	08/13/13 19:23	638-68-6	
n-Triacontane (S) SG	90	%	50-150	1	08/12/13 07:19	08/22/13 18:11		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**449**	ug/L	100	1		08/10/13 13:50		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	109	%	60-120	1		08/10/13 13:50	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 22:05	71-43-2	
Ethylbenzene	**1.4**	ug/L	1.0	1		08/12/13 22:05	100-41-4	
Toluene	ND	ug/L	1.0	1		08/12/13 22:05	108-88-3	
Xylene (Total)	**20.5**	ug/L	3.0	1		08/12/13 22:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		08/12/13 22:05	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		08/12/13 22:05	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125	1		08/12/13 22:05	460-00-4	

Sample: TH-7-W-080113 **Lab ID: 10237827004** Collected: 08/01/13 14:10 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**1.2**	mg/L	0.43	1	08/12/13 07:19	08/13/13 19:45		N2
DRO by AK 102 Silica Gel Clean	**0.80**	mg/L	0.43	1	08/12/13 07:19	08/22/13 18:33		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/12/13 07:19	08/13/13 19:45		N2

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ANALYTICAL RESULTS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Sample: TH-7-W-080113 **Lab ID: 10237827004** Collected: 08/01/13 14:10 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
Surrogates								
o-Terphenyl (S)	88	%	50-150	1	08/12/13 07:19	08/13/13 19:45	84-15-1	
o-Terphenyl (S) SG	83	%	50-150	1	08/12/13 07:19	08/22/13 18:33	84-15-1	
n-Triacontane (S)	90	%	50-150	1	08/12/13 07:19	08/13/13 19:45	638-68-6	
n-Triacontane (S) SG	87	%	50-150	1	08/12/13 07:19	08/22/13 18:33		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/10/13 14:10		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%	60-120	1		08/10/13 14:10	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/09/13 18:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/09/13 18:22	100-41-4	
Toluene	ND	ug/L	1.0	1		08/09/13 18:22	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/09/13 18:22	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		08/09/13 18:22	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		08/09/13 18:22	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/09/13 18:22	460-00-4	

Sample: TH-10-W-080113 **Lab ID: 10237827005** Collected: 08/01/13 13:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	ND	mg/L	0.40	1	08/12/13 07:19	08/13/13 20:07		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/12/13 07:19	08/13/13 20:07		N2
Surrogates								
o-Terphenyl (S)	88	%	50-150	1	08/12/13 07:19	08/13/13 20:07	84-15-1	
n-Triacontane (S)	94	%	50-150	1	08/12/13 07:19	08/13/13 20:07	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/10/13 14:30		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%	60-120	1		08/10/13 14:30	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/09/13 18:46	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/09/13 18:46	100-41-4	
Toluene	ND	ug/L	1.0	1		08/09/13 18:46	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/09/13 18:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		08/09/13 18:46	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		08/09/13 18:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		08/09/13 18:46	460-00-4	

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ANALYTICAL RESULTS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Sample: MW-23-W-080113 **Lab ID: 10237827006** Collected: 08/01/13 13:40 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	ND	mg/L	0.42	1	08/12/13 07:19	08/13/13 20:29		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/12/13 07:19	08/13/13 20:29		N2
Surrogates								
o-Terphenyl (S)	87	%	50-150	1	08/12/13 07:19	08/13/13 20:29	84-15-1	
n-Triacontane (S)	89	%	50-150	1	08/12/13 07:19	08/13/13 20:29	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/10/13 14:50		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%	60-120	1		08/10/13 14:50	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 22:24	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/12/13 22:24	100-41-4	
Toluene	ND	ug/L	1.0	1		08/12/13 22:24	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/12/13 22:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		08/12/13 22:24	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		08/12/13 22:24	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		08/12/13 22:24	460-00-4	

Sample: BD-1-W-080113 **Lab ID: 10237827007** Collected: 08/01/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**0.96**	mg/L	0.39	1	08/12/13 07:19	08/13/13 20:51		N2
DRO by AK 102 Silica Gel Clean	**0.61**	mg/L	0.39	1	08/12/13 07:19	08/22/13 18:55		N2
Residual Range Organics AK103	ND	mg/L	0.98	1	08/12/13 07:19	08/13/13 20:51		N2
Surrogates								
o-Terphenyl (S)	87	%	50-150	1	08/12/13 07:19	08/13/13 20:51	84-15-1	
o-Terphenyl (S) SG	83	%	50-150	1	08/12/13 07:19	08/22/13 18:55	84-15-1	
n-Triacontane (S)	89	%	50-150	1	08/12/13 07:19	08/13/13 20:51	638-68-6	
n-Triacontane (S) SG	89	%	50-150	1	08/12/13 07:19	08/22/13 18:55		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/10/13 17:31		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%	60-120	1		08/10/13 17:31	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/09/13 17:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/09/13 17:58	100-41-4	
Toluene	ND	ug/L	1.0	1		08/09/13 17:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/09/13 17:58	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Sample: BD-1-W-080113 **Lab ID: 10237827007** Collected: 08/01/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	75-125	1		08/09/13 17:58	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		08/09/13 17:58	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		08/09/13 17:58	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: GCV/11180 Analysis Method: Alaska 101
QC Batch Method: Alaska 101 Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237827001, 10237827002, 10237827003, 10237827004, 10237827005, 10237827006, 10237827007

METHOD BLANK: 1497254 Matrix: Water
Associated Lab Samples: 10237827001, 10237827002, 10237827003, 10237827004, 10237827005, 10237827006, 10237827007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/10/13 12:50	N2
a,a,a-Trifluorotoluene (S)	%	96	60-120	08/10/13 12:50	

LABORATORY CONTROL SAMPLE & LCSD: 1497255 1497256

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	1000	1070	100	107	60-120	7	20	N2
a,a,a-Trifluorotoluene (S)	%				106	106	60-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497257 1497258

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
AK101 Gasoline Range Organics	ug/L	67900	20000	20000	96900	100000	145	160	70-142	3	30	E,M1, N2
a,a,a-Trifluorotoluene (S)	%						110	114	60-120			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: MSV/24557 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237827002, 10237827004, 10237827005, 10237827007

METHOD BLANK: 1498600 Matrix: Water
Associated Lab Samples: 10237827002, 10237827004, 10237827005, 10237827007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/09/13 15:33	
Ethylbenzene	ug/L	ND	1.0	08/09/13 15:33	
Toluene	ug/L	ND	1.0	08/09/13 15:33	
Xylene (Total)	ug/L	ND	3.0	08/09/13 15:33	
1,2-Dichloroethane-d4 (S)	%	96	75-125	08/09/13 15:33	
4-Bromofluorobenzene (S)	%	97	75-125	08/09/13 15:33	
Toluene-d8 (S)	%	99	75-125	08/09/13 15:33	

LABORATORY CONTROL SAMPLE: 1498601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.9	99	75-125	
Ethylbenzene	ug/L	20	19.6	98	75-125	
Toluene	ug/L	20	19.5	98	75-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498602 1498603

Parameter	Units	10237814010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.5	19.8	107	99	70-135	8	30	
Ethylbenzene	ug/L	ND	20	20	21.8	19.8	109	99	75-125	10	30	
Toluene	ug/L	ND	20	20	21.7	19.6	108	98	75-125	10	30	
Xylene (Total)	ug/L	ND	60	60	66.1	60.6	110	101	75-125	9	30	
1,2-Dichloroethane-d4 (S)	%						94	92	75-125			
4-Bromofluorobenzene (S)	%						97	98	75-125			
Toluene-d8 (S)	%						99	99	75-125			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: MSV/24592 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237827001, 10237827003, 10237827006

METHOD BLANK: 1500424 Matrix: Water
Associated Lab Samples: 10237827001, 10237827003, 10237827006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/12/13 19:34	
Ethylbenzene	ug/L	ND	1.0	08/12/13 19:34	
Toluene	ug/L	ND	1.0	08/12/13 19:34	
Xylene (Total)	ug/L	ND	3.0	08/12/13 19:34	
1,2-Dichloroethane-d4 (S)	%	107	75-125	08/12/13 19:34	
4-Bromofluorobenzene (S)	%	103	75-125	08/12/13 19:34	
Toluene-d8 (S)	%	100	75-125	08/12/13 19:34	

LABORATORY CONTROL SAMPLE: 1500425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.3	97	75-125	
Ethylbenzene	ug/L	20	17.6	88	75-125	
Toluene	ug/L	20	18.0	90	75-125	
Xylene (Total)	ug/L	60	54.9	92	75-125	
1,2-Dichloroethane-d4 (S)	%			109	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501684 1501685

Parameter	Units	10237814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	100	100	120	133	119	132	70-135	10	30	
Ethylbenzene	ug/L	63.7	100	100	169	185	105	121	75-125	9	30	
Toluene	ug/L	144	100	100	255	272	111	128	75-125	6	30	M1
Xylene (Total)	ug/L	2100	300	300	2390	2530	96	143	75-125	6	30	MS
1,2-Dichloroethane-d4 (S)	%						110	111	75-125			
4-Bromofluorobenzene (S)	%						101	104	75-125			
Toluene-d8 (S)	%						101	101	75-125			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: OEXT/22601 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237827001

METHOD BLANK: 1498326 Matrix: Water
Associated Lab Samples: 10237827001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102	mg/L	ND	0.40	08/12/13 13:23	N2
Residual Range Organics AK103	mg/L	ND	1.0	08/12/13 13:23	N2
n-Triacontane (S)	%	92	60-120	08/12/13 13:23	
o-Terphenyl (S)	%	83	60-120	08/12/13 13:23	

LABORATORY CONTROL SAMPLE: 1498327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102	mg/L	2	1.6	81	75-125	N2
Residual Range Organics AK103	mg/L	2	1.9	93	60-120	N2
n-Triacontane (S)	%			84	60-120	
o-Terphenyl (S)	%			89	60-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498328 1498329

Parameter	Units	10237814010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
DRO by AK 102	mg/L	ND	2.2	2.4	1.9	2.1	74	74	50-150	8	20	N2
Residual Range Organics AK103	mg/L	ND	2.2	2.4	2.1	2.2	86	86	50-150	8	20	N2
n-Triacontane (S)	%						79	82	50-150			
o-Terphenyl (S)	%						79	78	50-150			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: OEXT/22616 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237827002, 10237827003, 10237827004, 10237827005, 10237827006, 10237827007

METHOD BLANK: 1499957 Matrix: Water
Associated Lab Samples: 10237827002, 10237827003, 10237827004, 10237827005, 10237827006, 10237827007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102	mg/L	ND	0.40	08/13/13 18:16	N2
Residual Range Organics AK103	mg/L	ND	1.0	08/13/13 18:16	N2
n-Triacontane (S)	%	88	60-120	08/13/13 18:16	
o-Terphenyl (S)	%	81	60-120	08/13/13 18:16	

LABORATORY CONTROL SAMPLE: 1499958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102	mg/L	2	1.9	95	75-125	N2
Residual Range Organics AK103	mg/L	2	2.2	109	60-120	N2
n-Triacontane (S)	%			85	60-120	
o-Terphenyl (S)	%			93	60-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499959 1499960

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
DRO by AK 102	mg/L	37.4	2.5	2.1	20.5	61.9	-676	1180	50-150	100	20	E,M3, N2,R1
Residual Range Organics AK103	mg/L	1.4	2.5	2.1	4.0	4.0	105	129	50-150	2	20	N2
n-Triacontane (S)	%						87	87	50-150			
o-Terphenyl (S)	%						84	120	50-150			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: OEXT/22684
QC Batch Method: EPA 3510
Analysis Method: Alaska 102/103
Analysis Description: AK1023 GCS
Associated Lab Samples: 10237827001

METHOD BLANK: 1502585 Matrix: Water
Associated Lab Samples: 10237827001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	ND	0.40	08/20/13 08:18	N2
n-Triacontane (S) SG	%	92	60-120	08/20/13 08:18	
o-Terphenyl (S) SG	%	82	60-120	08/20/13 08:18	

LABORATORY CONTROL SAMPLE: 1502586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	2	1.7	83	75-125	N2
n-Triacontane (S) SG	%			86	60-120	
o-Terphenyl (S) SG	%			97	60-120	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

QC Batch: OEXT/22719 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237827002, 10237827003, 10237827004, 10237827007

METHOD BLANK: 1505491 Matrix: Water
Associated Lab Samples: 10237827002, 10237827003, 10237827004, 10237827007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	ND	0.40	08/22/13 17:04	N2
n-Triacontane (S) SG	%	86	60-120	08/22/13 17:04	
o-Terphenyl (S) SG	%	82	60-120	08/22/13 17:04	

LABORATORY CONTROL SAMPLE: 1505492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	2	1.6	81	75-125	N2
n-Triacontane (S) SG	%			84	60-120	
o-Terphenyl (S) SG	%			94	60-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1505493 1505494

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
DRO by AK 102 Silica Gel Clean	mg/L	27.1	2.5	2.1	12.1	51.5	-601	1170	50-150	124	20	E,M1, N2,R1
n-Triacontane (S) SG	%						84	85	50-150			
o-Terphenyl (S) SG	%						82	124	50-150			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron# 1001430 Fair
Pace Project No.: 10237827

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10237827001	**TH-1-W-080113**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237827001	**TH-1-W-080113**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237827002	**TH-2-W-080113**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237827002	**TH-2-W-080113**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237827003	**TH-5-W-080113**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237827003	**TH-5-W-080113**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237827004	**TH-7-W-080113**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237827004	**TH-7-W-080113**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237827005	**TH-10-W-080113**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237827006	**MW-23-W-080113**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237827007	**BD-1-W-080113**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237827007	**BD-1-W-080113**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237827001	**TH-1-W-080113**	Alaska 101	GCV/11180		
10237827002	**TH-2-W-080113**	Alaska 101	GCV/11180		
10237827003	**TH-5-W-080113**	Alaska 101	GCV/11180		
10237827004	**TH-7-W-080113**	Alaska 101	GCV/11180		
10237827005	**TH-10-W-080113**	Alaska 101	GCV/11180		
10237827006	**MW-23-W-080113**	Alaska 101	GCV/11180		
10237827007	**BD-1-W-080113**	Alaska 101	GCV/11180		
10237827001	**TH-1-W-080113**	EPA 8260	MSV/24592		
10237827002	**TH-2-W-080113**	EPA 8260	MSV/24557		
10237827003	**TH-5-W-080113**	EPA 8260	MSV/24592		
10237827004	**TH-7-W-080113**	EPA 8260	MSV/24557		
10237827005	**TH-10-W-080113**	EPA 8260	MSV/24557		
10237827006	**MW-23-W-080113**	EPA 8260	MSV/24592		
10237827007	**BD-1-W-080113**	EPA 8260	MSV/24557		

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1132121

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10237527

Page: of

1681739

Section A Required Client Information:

Company: ARCADIS
Address: 1100 Olive Way, Seattle, WA 98102
Email To: Gregory-Montgomery@arcadis-us.com
Phone: 206-726-4708 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: David.Bearden@arcadis-us.com
Copy To: Michael.MacDaniel@arcadis-us.com
Purchase Order No.: B0045512-0008
Project Name: FAIR Chevron
Project Number: 1601430

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: ______

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Collected: the "Composite Start" date and time were not filled in. The date and time below are under "Composite End/Grab".

Sample Temp at Collection, Residual Chlorine (Y/N) and Requested Analysis Filtered (Y/N) were not filled in for any sample.

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other. HCl was marked for every sample; no other preservative was marked.

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Date (Composite End/Grab)	Time (Composite End/Grab)	# OF CONTAINERS	HCl	BTEX by 8260	GRO by AK 101	DRO by AK 102	DRO SG by AK 102	RRO by AK 102	Pace Project No./ Lab I.D.
1	TH-1-W-080113	WT	G	8/1/13	10:15	9	X	X	X	X	X	X	001
2	TH-2-W-080113	WT	G	8/1/13	12:15	9	X	X	X	X	X	X	002
3	TH-5-W-080113	WT	G	8/1/13	10:50	9	X	X	X	X	X	X	003
4	TH-7-W-080113	WT	G	8/1/13	14:10	9	X	X	X	X	X	X	004
5	TH-10-W-080113	WT	G	8/1/13	13:15	9	X	X	X	X	X	X	005
6	TH-23-W-080113	WT	G	8/1/13	13:40	9	X	X	X	X	X	X	006
7	BB-1-W-080113	WT	G	8/1/13	—	8	X	X	X	X		X	007
8	Trip Blank	WT	G	—	—	4	X	X	X				008
9													
10													
11													
12													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DRO SG: DRO with Silica Gel	[signature] / ARCADIS	8/5/13	900	CS1 / Pace	8-7-13	8:11	0.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

ORIGINAL

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.06	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Arcadis

Project #: WO#: 10237827

10237827

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 795806502028

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ B88A912167504 ☐ 80512447 ☑ 72337080 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 0.2 **Cooler Temp Corrected (°C):** 0.5 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +0.3 **Date and Initials of Person Examining Contents:** CJ 8-7-13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12. NOTB
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☐ No	☑ N/A	Initial when completed: CJ Lot # of added preservative:
	☑ Yes	☐ No		
Headspace in VOA Vials (>6mm)?	☑ Yes	☐ No	☐ N/A	14. 1 Vial TH-1 / 1 Vial TH-5 / 1 Vial 23 /
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	15. 1 Vial BD-1
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Greg, Dave, Michael @ Arcadis **Date/Time:** 8/7/13 12:15 Email

Comments/Resolution:

Notified we did not receive the Trip Blank. 8/7/13

Project Manager Review: JENN GROSS **Date:** 8/7/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

August 23, 2013

Gregory Montgomery
1100 Olive Way
Suite 800
Seattle, WA 98102

RE: Project: 211815 FAR Texaco
Pace Project No.: 10237828

Dear Gregory Montgomery:
Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mariah Peronto

mariah.peronto@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Arcadis U.S., Inc.

CERTIFICATIONS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

SAMPLE SUMMARY

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10237828001	**MW-1-W-080513**	Water	08/05/13 16:15	08/07/13 09:11
10237828002	**MW-3-W-080513**	Water	08/05/13 18:15	08/07/13 09:11
10237828003	**MW-4-W-080513**	Water	08/05/13 18:50	08/07/13 09:11
10237828004	**MW-5-W-080513**	Water	08/05/13 19:50	08/07/13 09:11
10237828005	**MW-8-W-080513**	Water	08/05/13 14:30	08/07/13 09:11
10237828006	**MW-9-W-080513**	Water	08/05/13 15:15	08/07/13 09:11
10237828007	**AR-81-W-080513**	Water	08/05/13 17:45	08/07/13 09:11
10237828008	**AR-85-W-080513**	Water	08/05/13 17:00	08/07/13 09:11
10237828009	**BD-3-W-080513**	Water	08/05/13 00:00	08/07/13 09:11
10237828010	**Trip Blank**	Water	08/05/13 00:00	08/07/13 09:11

SAMPLE ANALYTE COUNT

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10237828001	**MW-1-W-080513**	Alaska 102/103	JRH, MT	7
		Alaska 101	MJH	2
		EPA 8260	LPM	7
10237828002	**MW-3-W-080513**	EPA 8011	KL1	2
		Alaska 102/103	JRH, MT	7
		Alaska 101	MJH	2
		EPA 8260	LPM	70
10237828003	**MW-4-W-080513**	EPA 8011	KL1	2
		Alaska 102/103	JRH, MT	7
		Alaska 101	MJH	2
		EPA 8260	LPM	70
10237828004	**MW-5-W-080513**	Alaska 102/103	JRH, MT	7
		Alaska 101	MJH	2
		EPA 8260	EB2	7
10237828005	**MW-8-W-080513**	EPA 8011	KL1	2
		Alaska 102/103	JRH, MT	7
		Alaska 101	MJH	2
		EPA 8260	EB2	70
10237828006	**MW-9-W-080513**	EPA 8011	KL1	2
		Alaska 102/103	JRH, MT	7
		Alaska 101	LLC	2
		EPA 8260	EB2	70
10237828007	**AR-81-W-080513**	Alaska 102/103	JRH, MT	7
		Alaska 101	LLC	2
		EPA 8260	EB2	7
10237828008	**AR-85-W-080513**	Alaska 102/103	JRH, MT	7
		Alaska 101	LLC	2
		EPA 8260	EB2	7
10237828009	**BD-3-W-080513**	Alaska 102/103	MT	4
		Alaska 101	LLC	2
		EPA 8260	LPM	7
10237828010	**Trip Blank**	Alaska 101	LLC	2
		EPA 8260	LPM	7

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-1-W-080513 **Lab ID: 10237828001** Collected: 08/05/13 16:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**0.39**	mg/L	0.38	1	08/12/13 07:19	08/13/13 21:14		N2
DRO by AK 102 Silica Gel Clean	ND	mg/L	0.38	1	08/12/13 07:19	08/22/13 19:18		N2
Residual Range Organics AK103	ND	mg/L	0.96	1	08/12/13 07:19	08/13/13 21:14		N2
Surrogates								
o-Terphenyl (S)	90	%	50-150	1	08/12/13 07:19	08/13/13 21:14	84-15-1	
o-Terphenyl (S) SG	83	%	50-150	1	08/12/13 07:19	08/22/13 19:18	84-15-1	
n-Triacontane (S)	98	%	50-150	1	08/12/13 07:19	08/13/13 21:14	638-68-6	
n-Triacontane (S) SG	93	%	50-150	1	08/12/13 07:19	08/22/13 19:18		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/10/13 19:11		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%	60-120	1		08/10/13 19:11	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/09/13 17:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/09/13 17:33	100-41-4	
Toluene	ND	ug/L	1.0	1		08/09/13 17:33	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/09/13 17:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		08/09/13 17:33	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		08/09/13 17:33	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		08/09/13 17:33	460-00-4	

Sample: MW-3-W-080513 **Lab ID: 10237828002** Collected: 08/05/13 18:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.010	1	08/19/13 17:28	08/19/13 21:01	106-93-4	
Surrogates								
4-Bromofluorobenzene (S)	197	%	70-130	1	08/19/13 17:28	08/19/13 21:01	460-00-4	S3
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**2.5**	mg/L	0.40	1	08/12/13 07:19	08/13/13 21:36		N2
DRO by AK 102 Silica Gel Clean	**0.57**	mg/L	0.40	1	08/12/13 07:19	08/22/13 19:40		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/12/13 07:19	08/13/13 21:36		N2
Surrogates								
o-Terphenyl (S)	85	%	50-150	1	08/12/13 07:19	08/13/13 21:36	84-15-1	
o-Terphenyl (S) SG	86	%	50-150	1	08/12/13 07:19	08/22/13 19:40	84-15-1	
n-Triacontane (S)	88	%	50-150	1	08/12/13 07:19	08/13/13 21:36	638-68-6	
n-Triacontane (S) SG	95	%	50-150	1	08/12/13 07:19	08/22/13 19:40		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**734**	ug/L	100	1		08/10/13 16:30		N2

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-3-W-080513 **Lab ID: 10237828002** Collected: 08/05/13 18:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101							
Surrogates								
a,a,a-Trifluorotoluene (S)	104	%	60-120	1		08/10/13 16:30	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/11/13 02:14	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/11/13 02:14	107-05-1	
Benzene	**59.3**	ug/L	1.0	1		08/11/13 02:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/11/13 02:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/11/13 02:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/11/13 02:14	75-27-4	
Bromoform	ND	ug/L	4.0	1		08/11/13 02:14	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/11/13 02:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		08/11/13 02:14	78-93-3	
n-Butylbenzene	**1.0**	ug/L	1.0	1		08/11/13 02:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/11/13 02:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/11/13 02:14	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		08/11/13 02:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/11/13 02:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/11/13 02:14	75-00-3	L3
Chloroform	ND	ug/L	1.0	1		08/11/13 02:14	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/11/13 02:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/11/13 02:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/11/13 02:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/11/13 02:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/11/13 02:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/11/13 02:14	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/11/13 02:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/11/13 02:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/11/13 02:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/11/13 02:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/11/13 02:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/11/13 02:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/11/13 02:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/11/13 02:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/13 02:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/11/13 02:14	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	1		08/11/13 02:14	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		08/11/13 02:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/11/13 02:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/11/13 02:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/11/13 02:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/11/13 02:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/11/13 02:14	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/11/13 02:14	60-29-7	
Ethylbenzene	**37.3**	ug/L	1.0	1		08/11/13 02:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		08/11/13 02:14	87-68-3	
Isopropylbenzene (Cumene)	**4.9**	ug/L	1.0	1		08/11/13 02:14	98-82-8	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-3-W-080513 **Lab ID: 10237828002** Collected: 08/05/13 18:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		08/11/13 02:14	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/11/13 02:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/11/13 02:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/11/13 02:14	1634-04-4	
Naphthalene	**14.1**	ug/L	4.0	1		08/11/13 02:14	91-20-3	
n-Propylbenzene	**11.0**	ug/L	1.0	1		08/11/13 02:14	103-65-1	
Styrene	ND	ug/L	1.0	1		08/11/13 02:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/13 02:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/11/13 02:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/11/13 02:14	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/11/13 02:14	109-99-9	
Toluene	**2.8**	ug/L	1.0	1		08/11/13 02:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/11/13 02:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/11/13 02:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/11/13 02:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/11/13 02:14	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		08/11/13 02:14	79-01-6	
Trichlorofluoromethane	**2.5**	ug/L	1.0	1		08/11/13 02:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/11/13 02:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/11/13 02:14	76-13-1	
1,2,4-Trimethylbenzene	**79.2**	ug/L	1.0	1		08/11/13 02:14	95-63-6	
1,3,5-Trimethylbenzene	**37.6**	ug/L	1.0	1		08/11/13 02:14	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		08/11/13 02:14	75-01-4	
Xylene (Total)	**80.4**	ug/L	3.0	1		08/11/13 02:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		08/11/13 02:14	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		08/11/13 02:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		08/11/13 02:14	460-00-4	

Sample: MW-4-W-080513 **Lab ID: 10237828003** Collected: 08/05/13 18:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.045**	ug/L	0.0097	1	08/16/13 12:59	08/17/13 02:40	106-93-4	
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1	08/16/13 12:59	08/17/13 02:40	460-00-4	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**37.4**	mg/L	4.0	10	08/12/13 07:19	08/18/13 19:23		M3,N2,R1
DRO by AK 102 Silica Gel Clean	**27.1**	mg/L	2.0	5	08/12/13 07:19	08/22/13 20:25		M1,N2,R1
Residual Range Organics AK103	**1.4**	mg/L	1.0	1	08/12/13 07:19	08/13/13 21:58		N2
Surrogates								
o-Terphenyl (S)	99	%	50-150	1	08/12/13 07:19	08/13/13 21:58	84-15-1	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-4-W-080513 **Lab ID: 10237828003** Collected: 08/05/13 18:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
Surrogates								
o-Terphenyl (S) SG	136	%	50-150	5	08/12/13 07:19	08/22/13 20:25	84-15-1	
n-Triacontane (S)	82	%	50-150	1	08/12/13 07:19	08/13/13 21:58	638-68-6	
n-Triacontane (S) SG	88	%	50-150	5	08/12/13 07:19	08/22/13 20:25		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**67900**	ug/L	2000	20		08/10/13 13:10		M1,N2
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%	50-150	20		08/10/13 13:10	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	50		08/10/13 18:35	67-64-1	
Allyl chloride	ND	ug/L	200	50		08/10/13 18:35	107-05-1	
Benzene	**3120**	ug/L	50.0	50		08/10/13 18:35	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		08/10/13 18:35	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		08/10/13 18:35	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		08/10/13 18:35	75-27-4	
Bromoform	ND	ug/L	200	50		08/10/13 18:35	75-25-2	
Bromomethane	ND	ug/L	200	50		08/10/13 18:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	50		08/10/13 18:35	78-93-3	
n-Butylbenzene	ND	ug/L	50.0	50		08/10/13 18:35	104-51-8	
sec-Butylbenzene	ND	ug/L	50.0	50		08/10/13 18:35	135-98-8	
tert-Butylbenzene	ND	ug/L	50.0	50		08/10/13 18:35	98-06-6	
Carbon tetrachloride	ND	ug/L	50.0	50		08/10/13 18:35	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		08/10/13 18:35	108-90-7	
Chloroethane	ND	ug/L	50.0	50		08/10/13 18:35	75-00-3	L3,M0
Chloroform	ND	ug/L	50.0	50		08/10/13 18:35	67-66-3	
Chloromethane	ND	ug/L	200	50		08/10/13 18:35	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		08/10/13 18:35	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		08/10/13 18:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	50		08/10/13 18:35	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		08/10/13 18:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		08/10/13 18:35	106-93-4	
Dibromomethane	ND	ug/L	200	50		08/10/13 18:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		08/10/13 18:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		08/10/13 18:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		08/10/13 18:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		08/10/13 18:35	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	50.0	50		08/10/13 18:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		08/10/13 18:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	50		08/10/13 18:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		08/10/13 18:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		08/10/13 18:35	156-60-5	
Dichlorofluoromethane	ND	ug/L	50.0	50		08/10/13 18:35	75-43-4	
1,2-Dichloropropane	ND	ug/L	200	50		08/10/13 18:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		08/10/13 18:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	50		08/10/13 18:35	594-20-7	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-4-W-080513 **Lab ID: 10237828003** Collected: 08/05/13 18:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
1,1-Dichloropropene	ND	ug/L	50.0	50		08/10/13 18:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	50		08/10/13 18:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	50		08/10/13 18:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	200	50		08/10/13 18:35	60-29-7	
Ethylbenzene	**1250**	ug/L	50.0	50		08/10/13 18:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		08/10/13 18:35	87-68-3	
Isopropylbenzene (Cumene)	**57.1**	ug/L	50.0	50		08/10/13 18:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	50.0	50		08/10/13 18:35	99-87-6	
Methylene Chloride	ND	ug/L	200	50		08/10/13 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		08/10/13 18:35	108-10-1	
Methyl-tert-butyl ether	**83.0**	ug/L	50.0	50		08/10/13 18:35	1634-04-4	
Naphthalene	**342**	ug/L	200	50		08/10/13 18:35	91-20-3	
n-Propylbenzene	**125**	ug/L	50.0	50		08/10/13 18:35	103-65-1	
Styrene	ND	ug/L	50.0	50		08/10/13 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		08/10/13 18:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		08/10/13 18:35	79-34-5	
Tetrachloroethene	ND	ug/L	50.0	50		08/10/13 18:35	127-18-4	
Tetrahydrofuran	ND	ug/L	500	50		08/10/13 18:35	109-99-9	
Toluene	**7190**	ug/L	50.0	50		08/10/13 18:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		08/10/13 18:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		08/10/13 18:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	50.0	50		08/10/13 18:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		08/10/13 18:35	79-00-5	
Trichloroethene	ND	ug/L	20.0	50		08/10/13 18:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		08/10/13 18:35	75-69-4	M1
1,2,3-Trichloropropane	ND	ug/L	200	50		08/10/13 18:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	50.0	50		08/10/13 18:35	76-13-1	M1
1,2,4-Trimethylbenzene	**1580**	ug/L	50.0	50		08/10/13 18:35	95-63-6	
1,3,5-Trimethylbenzene	**441**	ug/L	50.0	50		08/10/13 18:35	108-67-8	
Vinyl chloride	ND	ug/L	10.0	50		08/10/13 18:35	75-01-4	
Xylene (Total)	**10800**	ug/L	150	50		08/10/13 18:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	50		08/10/13 18:35	17060-07-0	
Toluene-d8 (S)	97	%	75-125	50		08/10/13 18:35	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	50		08/10/13 18:35	460-00-4	

Sample: MW-5-W-080513 **Lab ID: 10237828004** Collected: 08/05/13 19:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**4.1**	mg/L	0.43	1	08/12/13 07:19	08/13/13 23:05		N2
DRO by AK 102 Silica Gel Clean	**1.3**	mg/L	0.43	1	08/12/13 07:19	08/22/13 21:32		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/12/13 07:19	08/13/13 23:05		N2
Surrogates								
o-Terphenyl (S)	87	%	50-150	1	08/12/13 07:19	08/13/13 23:05	84-15-1	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-5-W-080513 **Lab ID: 10237828004** Collected: 08/05/13 19:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
Surrogates								
o-Terphenyl (S) SG	82	%	50-150	1	08/12/13 07:19	08/22/13 21:32	84-15-1	
n-Triacontane (S)	93	%	50-150	1	08/12/13 07:19	08/13/13 23:05	638-68-6	
n-Triacontane (S) SG	94	%	50-150	1	08/12/13 07:19	08/22/13 21:32		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**1310**	ug/L	100	1		08/10/13 18:11		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	106	%	60-120	1		08/10/13 18:11	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**202**	ug/L	1.0	1		08/14/13 10:02	71-43-2	
Ethylbenzene	**25.5**	ug/L	1.0	1		08/14/13 10:02	100-41-4	
Toluene	**9.3**	ug/L	1.0	1		08/14/13 10:02	108-88-3	
Xylene (Total)	**186**	ug/L	3.0	1		08/14/13 10:02	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		08/14/13 10:02	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		08/14/13 10:02	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		08/14/13 10:02	460-00-4	

Sample: MW-8-W-080513 **Lab ID: 10237828005** Collected: 08/05/13 14:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.0095	1	08/16/13 12:59	08/17/13 04:00	106-93-4	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1	08/16/13 12:59	08/17/13 04:00	460-00-4	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**2.2**	mg/L	0.42	1	08/12/13 07:19	08/13/13 23:27		N2
DRO by AK 102 Silica Gel Clean	**0.72**	mg/L	0.42	1	08/12/13 07:19	08/22/13 21:54		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/12/13 07:19	08/13/13 23:27		N2
Surrogates								
o-Terphenyl (S)	84	%	50-150	1	08/12/13 07:19	08/13/13 23:27	84-15-1	
o-Terphenyl (S) SG	77	%	50-150	1	08/12/13 07:19	08/22/13 21:54	84-15-1	
n-Triacontane (S)	93	%	50-150	1	08/12/13 07:19	08/13/13 23:27	638-68-6	
n-Triacontane (S) SG	92	%	50-150	1	08/12/13 07:19	08/22/13 21:54		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**2410**	ug/L	100	1		08/10/13 18:31		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	109	%	60-120	1		08/10/13 18:31	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	40.0	2		08/19/13 17:38	67-64-1	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-8-W-080513 **Lab ID: 10237828005** Collected: 08/05/13 14:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Allyl chloride	ND	ug/L	8.0	2		08/19/13 17:38	107-05-1	
Benzene	**292**	ug/L	2.0	2		08/19/13 17:38	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		08/19/13 17:38	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		08/19/13 17:38	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		08/19/13 17:38	75-27-4	
Bromoform	ND	ug/L	8.0	2		08/19/13 17:38	75-25-2	
Bromomethane	ND	ug/L	8.0	2		08/19/13 17:38	74-83-9	L3
2-Butanone (MEK)	ND	ug/L	10.0	2		08/19/13 17:38	78-93-3	
n-Butylbenzene	**3.9**	ug/L	2.0	2		08/19/13 17:38	104-51-8	
sec-Butylbenzene	**3.0**	ug/L	2.0	2		08/19/13 17:38	135-98-8	
tert-Butylbenzene	**13.5**	ug/L	2.0	2		08/19/13 17:38	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	2		08/19/13 17:38	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		08/19/13 17:38	108-90-7	
Chloroethane	ND	ug/L	2.0	2		08/19/13 17:38	75-00-3	
Chloroform	ND	ug/L	2.0	2		08/19/13 17:38	67-66-3	
Chloromethane	ND	ug/L	8.0	2		08/19/13 17:38	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		08/19/13 17:38	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		08/19/13 17:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	2		08/19/13 17:38	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		08/19/13 17:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		08/19/13 17:38	106-93-4	
Dibromomethane	ND	ug/L	8.0	2		08/19/13 17:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		08/19/13 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		08/19/13 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		08/19/13 17:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		08/19/13 17:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	2		08/19/13 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		08/19/13 17:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	2		08/19/13 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		08/19/13 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		08/19/13 17:38	156-60-5	
Dichlorofluoromethane	ND	ug/L	2.0	2		08/19/13 17:38	75-43-4	
1,2-Dichloropropane	ND	ug/L	8.0	2		08/19/13 17:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		08/19/13 17:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	8.0	2		08/19/13 17:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		08/19/13 17:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	8.0	2		08/19/13 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	8.0	2		08/19/13 17:38	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	8.0	2		08/19/13 17:38	60-29-7	
Ethylbenzene	**92.3**	ug/L	2.0	2		08/19/13 17:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		08/19/13 17:38	87-68-3	
Isopropylbenzene (Cumene)	**13.4**	ug/L	2.0	2		08/19/13 17:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	2.0	2		08/19/13 17:38	99-87-6	
Methylene Chloride	ND	ug/L	8.0	2		08/19/13 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		08/19/13 17:38	108-10-1	
Methyl-tert-butyl ether	**3.4**	ug/L	2.0	2		08/19/13 17:38	1634-04-4	
Naphthalene	**29.1**	ug/L	8.0	2		08/19/13 17:38	91-20-3	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-8-W-080513 **Lab ID: 10237828005** Collected: 08/05/13 14:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
n-Propylbenzene	**30.1**	ug/L	2.0	2		08/19/13 17:38	103-65-1	
Styrene	ND	ug/L	2.0	2		08/19/13 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		08/19/13 17:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		08/19/13 17:38	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		08/19/13 17:38	127-18-4	
Tetrahydrofuran	ND	ug/L	20.0	2		08/19/13 17:38	109-99-9	
Toluene	**3.9**	ug/L	2.0	2		08/19/13 17:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		08/19/13 17:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		08/19/13 17:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		08/19/13 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		08/19/13 17:38	79-00-5	
Trichloroethene	ND	ug/L	0.80	2		08/19/13 17:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		08/19/13 17:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	8.0	2		08/19/13 17:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	2.0	2		08/19/13 17:38	76-13-1	
1,2,4-Trimethylbenzene	**92.0**	ug/L	2.0	2		08/19/13 17:38	95-63-6	
1,3,5-Trimethylbenzene	**40.9**	ug/L	2.0	2		08/19/13 17:38	108-67-8	
Vinyl chloride	ND	ug/L	0.40	2		08/19/13 17:38	75-01-4	
Xylene (Total)	**174**	ug/L	6.0	2		08/19/13 17:38	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	2		08/19/13 17:38	17060-07-0	
Toluene-d8 (S)	100	%	75-125	2		08/19/13 17:38	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125	2		08/19/13 17:38	460-00-4	

Sample: MW-9-W-080513 **Lab ID: 10237828006** Collected: 08/05/13 15:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.0097	1	08/16/13 12:59	08/17/13 04:26	106-93-4	
Surrogates								
4-Bromofluorobenzene (S)	73	%	70-130	1	08/16/13 12:59	08/17/13 04:26	460-00-4	
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**0.85**	mg/L	0.43	1	08/12/13 07:19	08/13/13 23:50		N2
DRO by AK 102 Silica Gel Clean	ND	mg/L	0.43	1	08/12/13 07:19	08/22/13 22:16		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/12/13 07:19	08/13/13 23:50		N2
Surrogates								
o-Terphenyl (S)	82	%	50-150	1	08/12/13 07:19	08/13/13 23:50	84-15-1	
o-Terphenyl (S) SG	80	%	50-150	1	08/12/13 07:19	08/22/13 22:16	84-15-1	
n-Triacontane (S)	93	%	50-150	1	08/12/13 07:19	08/13/13 23:50	638-68-6	
n-Triacontane (S) SG	95	%	50-150	1	08/12/13 07:19	08/22/13 22:16		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**221**	ug/L	100	1		08/13/13 18:59		N2

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-9-W-080513 **Lab ID: 10237828006** Collected: 08/05/13 15:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101							
Surrogates								
a,a,a-Trifluorotoluene (S)	111	%	60-120	1		08/13/13 18:59	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	1		08/16/13 04:30	67-64-1	
Allyl chloride	ND	ug/L	4.0	1		08/16/13 04:30	107-05-1	
Benzene	**37.9**	ug/L	1.0	1		08/16/13 04:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		08/16/13 04:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		08/16/13 04:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		08/16/13 04:30	75-27-4	
Bromoform	ND	ug/L	4.0	1		08/16/13 04:30	75-25-2	
Bromomethane	ND	ug/L	4.0	1		08/16/13 04:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		08/16/13 04:30	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		08/16/13 04:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		08/16/13 04:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		08/16/13 04:30	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	1		08/16/13 04:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		08/16/13 04:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		08/16/13 04:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		08/16/13 04:30	67-66-3	
Chloromethane	ND	ug/L	4.0	1		08/16/13 04:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		08/16/13 04:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		08/16/13 04:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	1		08/16/13 04:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		08/16/13 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		08/16/13 04:30	106-93-4	
Dibromomethane	ND	ug/L	4.0	1		08/16/13 04:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		08/16/13 04:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		08/16/13 04:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		08/16/13 04:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		08/16/13 04:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		08/16/13 04:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		08/16/13 04:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		08/16/13 04:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		08/16/13 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		08/16/13 04:30	156-60-5	
Dichlorofluoromethane	**1.1**	ug/L	1.0	1		08/16/13 04:30	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	1		08/16/13 04:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		08/16/13 04:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	1		08/16/13 04:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		08/16/13 04:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	1		08/16/13 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	1		08/16/13 04:30	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	1		08/16/13 04:30	60-29-7	
Ethylbenzene	**2.7**	ug/L	1.0	1		08/16/13 04:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		08/16/13 04:30	87-68-3	
Isopropylbenzene (Cumene)	**1.7**	ug/L	1.0	1		08/16/13 04:30	98-82-8	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: MW-9-W-080513 **Lab ID: 10237828006** Collected: 08/05/13 15:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	1.0	1		08/16/13 04:30	99-87-6	
Methylene Chloride	ND	ug/L	4.0	1		08/16/13 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		08/16/13 04:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/16/13 04:30	1634-04-4	
Naphthalene	ND	ug/L	4.0	1		08/16/13 04:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		08/16/13 04:30	103-65-1	
Styrene	ND	ug/L	1.0	1		08/16/13 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		08/16/13 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		08/16/13 04:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		08/16/13 04:30	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1		08/16/13 04:30	109-99-9	
Toluene	ND	ug/L	1.0	1		08/16/13 04:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		08/16/13 04:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		08/16/13 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		08/16/13 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		08/16/13 04:30	79-00-5	
Trichloroethene	ND	ug/L	0.40	1		08/16/13 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		08/16/13 04:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	1		08/16/13 04:30	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		08/16/13 04:30	76-13-1	
1,2,4-Trimethylbenzene	**1.9**	ug/L	1.0	1		08/16/13 04:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		08/16/13 04:30	108-67-8	
Vinyl chloride	ND	ug/L	0.20	1		08/16/13 04:30	75-01-4	
Xylene (Total)	**8.7**	ug/L	3.0	1		08/16/13 04:30	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		08/16/13 04:30	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		08/16/13 04:30	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	1		08/16/13 04:30	460-00-4	

Sample: AR-81-W-080513 **Lab ID: 10237828007** Collected: 08/05/13 17:45 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**1.1**	mg/L	0.42	1	08/12/13 07:19	08/14/13 00:12		N2
DRO by AK 102 Silica Gel Clean	ND	mg/L	0.42	1	08/12/13 07:19	08/22/13 22:39		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/12/13 07:19	08/14/13 00:12		N2
Surrogates								
o-Terphenyl (S)	83	%	50-150	1	08/12/13 07:19	08/14/13 00:12	84-15-1	
o-Terphenyl (S) SG	81	%	50-150	1	08/12/13 07:19	08/22/13 22:39	84-15-1	
n-Triacontane (S)	93	%	50-150	1	08/12/13 07:19	08/14/13 00:12	638-68-6	
n-Triacontane (S) SG	97	%	50-150	1	08/12/13 07:19	08/22/13 22:39		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/13/13 13:13		N2

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: AR-81-W-080513 **Lab ID: 10237828007** Collected: 08/05/13 17:45 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101							
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%	60-120	1		08/13/13 13:13	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/14/13 09:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/14/13 09:11	100-41-4	
Toluene	ND	ug/L	1.0	1		08/14/13 09:11	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/14/13 09:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	75-125	1		08/14/13 09:11	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		08/14/13 09:11	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		08/14/13 09:11	460-00-4	

Sample: AR-85-W-080513 **Lab ID: 10237828008** Collected: 08/05/13 17:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**0.71**	mg/L	0.49	1	08/12/13 07:19	08/14/13 00:35		N2
DRO by AK 102 Silica Gel Clean	ND	mg/L	0.49	1	08/12/13 07:19	08/22/13 23:01		N2
Residual Range Organics AK103	ND	mg/L	1.2	1	08/12/13 07:19	08/14/13 00:35		N2
Surrogates								
o-Terphenyl (S)	77	%	50-150	1	08/12/13 07:19	08/14/13 00:35	84-15-1	
o-Terphenyl (S) SG	79	%	50-150	1	08/12/13 07:19	08/22/13 23:01	84-15-1	
n-Triacontane (S)	87	%	50-150	1	08/12/13 07:19	08/14/13 00:35	638-68-6	
n-Triacontane (S) SG	96	%	50-150	1	08/12/13 07:19	08/22/13 23:01		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/13/13 13:33		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	98	%	60-120	1		08/13/13 13:33	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/14/13 09:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/14/13 09:27	100-41-4	
Toluene	ND	ug/L	1.0	1		08/14/13 09:27	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/14/13 09:27	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		08/14/13 09:27	17060-07-0	
Toluene-d8 (S)	101	%	75-125	1		08/14/13 09:27	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	1		08/14/13 09:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Sample: BD-3-W-080513 **Lab ID: 10237828009** Collected: 08/05/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**2.0**	mg/L	0.39	1	08/12/13 07:19	08/14/13 00:57		N2
Residual Range Organics AK103	ND	mg/L	0.98	1	08/12/13 07:19	08/14/13 00:57		N2
Surrogates								
o-Terphenyl (S)	83	%	50-150	1	08/12/13 07:19	08/14/13 00:57	84-15-1	
n-Triacontane (S)	92	%	50-150	1	08/12/13 07:19	08/14/13 00:57	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**2900**	ug/L	200	2		08/15/13 22:23		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	105	%	60-120	2		08/15/13 22:23	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**273**	ug/L	2.0	2		08/12/13 22:04	71-43-2	
Ethylbenzene	**106**	ug/L	1.0	1		08/09/13 19:10	100-41-4	
Toluene	**4.2**	ug/L	1.0	1		08/09/13 19:10	108-88-3	
Xylene (Total)	**208**	ug/L	3.0	1		08/09/13 19:10	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	75-125	1		08/09/13 19:10	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		08/09/13 19:10	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	1		08/09/13 19:10	460-00-4	

Sample: Trip Blank **Lab ID: 10237828010** Collected: 08/05/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/13/13 12:33		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	97	%	60-120	1		08/13/13 12:33	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 13:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/12/13 13:50	100-41-4	
Toluene	ND	ug/L	1.0	1		08/12/13 13:50	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/12/13 13:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	75-125	1		08/12/13 13:50	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		08/12/13 13:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/12/13 13:50	460-00-4	

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: GCV/11180 Analysis Method: Alaska 101
QC Batch Method: Alaska 101 Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237828001, 10237828002, 10237828003, 10237828004, 10237828005

METHOD BLANK: 1497254 Matrix: Water
Associated Lab Samples: 10237828001, 10237828002, 10237828003, 10237828004, 10237828005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/10/13 12:50	N2
a,a,a-Trifluorotoluene (S)	%	96	60-120	08/10/13 12:50	

LABORATORY CONTROL SAMPLE & LCSD: 1497255 1497256

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	1000	1070	100	107	60-120	7	20	N2
a,a,a-Trifluorotoluene (S)	%				106	106	60-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497257 1497258

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
AK101 Gasoline Range Organics	ug/L	67900	20000	20000	96900	100000	145	160	70-142	3	30	E,M1, N2
a,a,a-Trifluorotoluene (S)	%						110	114	60-120			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: GCV/11193 Analysis Method: Alaska 101
QC Batch Method: Alaska 101 Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237828006, 10237828007, 10237828008, 10237828010

METHOD BLANK: 1499855 Matrix: Water
Associated Lab Samples: 10237828006, 10237828007, 10237828008, 10237828010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/13/13 11:29	N2
a,a,a-Trifluorotoluene (S)	%	95	60-120	08/13/13 11:29	

LABORATORY CONTROL SAMPLE & LCSD: 1499856 1499857

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	849	890	85	89	60-120	5	20	N2
a,a,a-Trifluorotoluene (S)	%				102	112	60-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499858 1499859

Parameter	Units	10237814006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
AK101 Gasoline Range Organics	ug/L	16400	20000	20000	39800	42500	117	130	70-142	7	30	N2
a,a,a-Trifluorotoluene (S)	%						118	121	60-120			S0

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: GCV/11204
QC Batch Method: Alaska 101
Analysis Method: Alaska 101
Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237828009

METHOD BLANK: 1502666 Matrix: Water
Associated Lab Samples: 10237828009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/15/13 21:43	N2
a,a,a-Trifluorotoluene (S)	%	98	60-120	08/15/13 21:43	

LABORATORY CONTROL SAMPLE & LCSD: 1502667 1502668

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	1120	1150	112	115	60-120	2	20	N2
a,a,a-Trifluorotoluene (S)	%				104	101	60-120			

MATRIX SPIKE SAMPLE: 1503350

Parameter	Units	10238278018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
AK101 Gasoline Range Organics	ug/L	304	1000	1750	144	70-142	M1,N2
a,a,a-Trifluorotoluene (S)	%				110	60-120	

SAMPLE DUPLICATE: 1503351

Parameter	Units	10238278017 Result	Dup Result	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	313	289	8	30	N2
a,a,a-Trifluorotoluene (S)	%	99	100	2		

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: MSV/24567 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10237828002, 10237828003

METHOD BLANK: 1499090 Matrix: Water
Associated Lab Samples: 10237828002, 10237828003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/10/13 18:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/10/13 18:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/10/13 18:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/10/13 18:11	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/10/13 18:11	
1,1-Dichloroethane	ug/L	ND	1.0	08/10/13 18:11	
1,1-Dichloroethene	ug/L	ND	1.0	08/10/13 18:11	
1,1-Dichloropropene	ug/L	ND	1.0	08/10/13 18:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/10/13 18:11	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/10/13 18:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/10/13 18:11	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/10/13 18:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/10/13 18:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/10/13 18:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/10/13 18:11	
1,2-Dichloroethane	ug/L	ND	1.0	08/10/13 18:11	
1,2-Dichloropropane	ug/L	ND	4.0	08/10/13 18:11	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/10/13 18:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/10/13 18:11	
1,3-Dichloropropane	ug/L	ND	1.0	08/10/13 18:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/10/13 18:11	
2,2-Dichloropropane	ug/L	ND	4.0	08/10/13 18:11	
2-Butanone (MEK)	ug/L	ND	5.0	08/10/13 18:11	
2-Chlorotoluene	ug/L	ND	1.0	08/10/13 18:11	
4-Chlorotoluene	ug/L	ND	1.0	08/10/13 18:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/10/13 18:11	
Acetone	ug/L	ND	20.0	08/10/13 18:11	
Allyl chloride	ug/L	ND	4.0	08/10/13 18:11	
Benzene	ug/L	ND	1.0	08/10/13 18:11	
Bromobenzene	ug/L	ND	1.0	08/10/13 18:11	
Bromochloromethane	ug/L	ND	1.0	08/10/13 18:11	
Bromodichloromethane	ug/L	ND	1.0	08/10/13 18:11	
Bromoform	ug/L	ND	4.0	08/10/13 18:11	
Bromomethane	ug/L	ND	4.0	08/10/13 18:11	
Carbon tetrachloride	ug/L	ND	1.0	08/10/13 18:11	
Chlorobenzene	ug/L	ND	1.0	08/10/13 18:11	
Chloroethane	ug/L	ND	1.0	08/10/13 18:11	
Chloroform	ug/L	ND	1.0	08/10/13 18:11	
Chloromethane	ug/L	ND	4.0	08/10/13 18:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/10/13 18:11	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/10/13 18:11	
Dibromochloromethane	ug/L	ND	1.0	08/10/13 18:11	
Dibromomethane	ug/L	ND	4.0	08/10/13 18:11	

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

METHOD BLANK: 1499090 Matrix: Water

Associated Lab Samples: 10237828002, 10237828003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/10/13 18:11	
Dichlorofluoromethane	ug/L	ND	1.0	08/10/13 18:11	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/10/13 18:11	
Ethylbenzene	ug/L	ND	1.0	08/10/13 18:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/10/13 18:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/10/13 18:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/10/13 18:11	
Methylene Chloride	ug/L	ND	4.0	08/10/13 18:11	
n-Butylbenzene	ug/L	ND	1.0	08/10/13 18:11	
n-Propylbenzene	ug/L	ND	1.0	08/10/13 18:11	
Naphthalene	ug/L	ND	4.0	08/10/13 18:11	
p-Isopropyltoluene	ug/L	ND	1.0	08/10/13 18:11	
sec-Butylbenzene	ug/L	ND	1.0	08/10/13 18:11	
Styrene	ug/L	ND	1.0	08/10/13 18:11	
tert-Butylbenzene	ug/L	ND	1.0	08/10/13 18:11	
Tetrachloroethene	ug/L	ND	1.0	08/10/13 18:11	
Tetrahydrofuran	ug/L	ND	10.0	08/10/13 18:11	
Toluene	ug/L	ND	1.0	08/10/13 18:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/10/13 18:11	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/10/13 18:11	
Trichloroethene	ug/L	ND	0.40	08/10/13 18:11	
Trichlorofluoromethane	ug/L	ND	1.0	08/10/13 18:11	
Vinyl chloride	ug/L	ND	0.20	08/10/13 18:11	
Xylene (Total)	ug/L	ND	3.0	08/10/13 18:11	
1,2-Dichloroethane-d4 (S)	%	101	75-125	08/10/13 18:11	
4-Bromofluorobenzene (S)	%	99	75-125	08/10/13 18:11	
Toluene-d8 (S)	%	97	75-125	08/10/13 18:11	

LABORATORY CONTROL SAMPLE: 1499091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	75-125	
1,1,1-Trichloroethane	ug/L	20	20.5	102	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	75-125	
1,1,2-Trichloroethane	ug/L	20	19.1	95	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.9	100	51-139	
1,1-Dichloroethane	ug/L	20	21.1	105	75-125	
1,1-Dichloroethene	ug/L	20	20.4	102	71-126	
1,1-Dichloropropene	ug/L	20	19.9	99	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.6	98	75-125	
1,2,3-Trichloropropane	ug/L	20	18.5	93	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.2	96	75-125	
1,2,4-Trimethylbenzene	ug/L	20	18.8	94	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.0	94	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	19.2	96	75-125	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

LABORATORY CONTROL SAMPLE: 1499091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	18.5	93	75-125	
1,2-Dichloroethane	ug/L	20	20.3	101	74-125	
1,2-Dichloropropane	ug/L	20	19.7	99	75-125	
1,3,5-Trimethylbenzene	ug/L	20	18.7	94	75-125	
1,3-Dichlorobenzene	ug/L	20	18.4	92	75-125	
1,3-Dichloropropane	ug/L	20	19.3	97	75-125	
1,4-Dichlorobenzene	ug/L	20	18.1	91	75-125	
2,2-Dichloropropane	ug/L	20	20.8	104	67-132	
2-Butanone (MEK)	ug/L	100	95.5	96	68-126	
2-Chlorotoluene	ug/L	20	18.4	92	74-125	
4-Chlorotoluene	ug/L	20	18.5	92	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.6	99	72-125	
Acetone	ug/L	100	97.1	97	69-132	
Allyl chloride	ug/L	20	20.9	104	74-125	
Benzene	ug/L	20	20.0	100	75-125	
Bromobenzene	ug/L	20	18.7	93	75-125	
Bromochloromethane	ug/L	20	19.2	96	75-125	
Bromodichloromethane	ug/L	20	20.5	103	75-125	
Bromoform	ug/L	20	19.6	98	75-126	
Bromomethane	ug/L	20	20.4	102	30-150	
Carbon tetrachloride	ug/L	20	19.8	99	74-127	
Chlorobenzene	ug/L	20	18.3	91	75-125	
Chloroethane	ug/L	20	27.4	137	68-132	CH,L0
Chloroform	ug/L	20	19.9	100	75-125	
Chloromethane	ug/L	20	23.7	118	61-129	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	75-125	
Dibromochloromethane	ug/L	20	19.7	98	75-125	
Dibromomethane	ug/L	20	19.0	95	75-125	
Dichlorodifluoromethane	ug/L	20	21.5	108	49-137	
Dichlorofluoromethane	ug/L	20	22.9	114	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	20.4	102	75-125	
Ethylbenzene	ug/L	20	18.7	94	75-125	
Hexachloro-1,3-butadiene	ug/L	20	18.8	94	69-127	
Isopropylbenzene (Cumene)	ug/L	20	19.2	96	75-125	
Methyl-tert-butyl ether	ug/L	20	20.0	100	74-126	
Methylene Chloride	ug/L	20	20.6	103	75-125	
n-Butylbenzene	ug/L	20	18.7	94	72-126	
n-Propylbenzene	ug/L	20	18.9	94	73-125	
Naphthalene	ug/L	20	18.7	94	75-125	
p-Isopropyltoluene	ug/L	20	18.9	94	74-125	
sec-Butylbenzene	ug/L	20	19.1	96	73-125	
Styrene	ug/L	20	19.2	96	75-125	
tert-Butylbenzene	ug/L	20	18.9	94	73-125	
Tetrachloroethene	ug/L	20	17.8	89	75-125	
Tetrahydrofuran	ug/L	200	176	88	71-125	
Toluene	ug/L	20	18.7	94	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	74-125	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

LABORATORY CONTROL SAMPLE: 1499091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	20.0	100	75-125	
Trichloroethene	ug/L	20	19.3	96	75-125	
Trichlorofluoromethane	ug/L	20	22.8	114	69-129	
Vinyl chloride	ug/L	20	23.4	117	70-128	
Xylene (Total)	ug/L	60	56.6	94	75-125	
1,2-Dichloroethane-d4 (S)	%			104	75-125	
4-Bromofluorobenzene (S)	%			100	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499092 1499093

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	1000	1000	1020	1040	102	104	75-125	1	30	
1,1,1-Trichloroethane	ug/L	ND	1000	1000	1150	1140	115	114	75-136	.9	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1000	1000	991	975	99	97	66-131	2	30	
1,1,2-Trichloroethane	ug/L	ND	1000	1000	995	1010	100	101	75-125	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1000	1000	1790	1770	179	177	75-150	1	30	M1
1,1-Dichloroethane	ug/L	ND	1000	1000	1120	1110	112	111	75-131	1	30	
1,1-Dichloroethene	ug/L	ND	1000	1000	1170	1190	117	119	75-138	2	30	
1,1-Dichloropropene	ug/L	ND	1000	1000	1130	1120	113	112	75-136	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	1000	1000	1040	1030	104	103	75-125	1	30	
1,2,3-Trichloropropane	ug/L	ND	1000	1000	961	974	96	97	71-126	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	1000	1000	1030	1040	103	104	75-125	1	30	
1,2,4-Trimethylbenzene	ug/L	1580	1000	1000	2610	2640	103	106	70-126	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	2500	2500	2450	2420	98	97	69-127	1	30	
1,2-Dibromoethane (EDB)	ug/L	ND	1000	1000	972	990	97	99	75-125	2	30	
1,2-Dichlorobenzene	ug/L	ND	1000	1000	973	986	97	99	75-125	1	30	
1,2-Dichloroethane	ug/L	ND	1000	1000	1060	1050	104	103	74-128	1	30	
1,2-Dichloropropane	ug/L	ND	1000	1000	1060	1060	106	106	75-125	.1	30	
1,3,5-Trimethylbenzene	ug/L	441	1000	1000	1480	1490	104	105	72-126	.8	30	
1,3-Dichlorobenzene	ug/L	ND	1000	1000	1000	1010	100	101	75-125	.6	30	
1,3-Dichloropropane	ug/L	ND	1000	1000	997	1010	100	101	75-125	.9	30	
1,4-Dichlorobenzene	ug/L	ND	1000	1000	978	991	98	99	75-125	1	30	
2,2-Dichloropropane	ug/L	ND	1000	1000	1190	1170	119	117	71-143	1	30	
2-Butanone (MEK)	ug/L	ND	5000	5000	4860	4760	97	95	64-125	2	30	
2-Chlorotoluene	ug/L	ND	1000	1000	1050	1060	105	106	74-125	.8	30	
4-Chlorotoluene	ug/L	ND	1000	1000	993	997	99	100	75-125	.3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5000	5000	5070	5140	101	103	69-125	2	30	
Acetone	ug/L	ND	5000	5000	5300	5510	106	110	57-135	4	30	
Allyl chloride	ug/L	ND	1000	1000	1070	1070	107	107	73-134	.05	30	
Benzene	ug/L	3120	1000	1000	4140	4140	102	102	70-135	.07	30	
Bromobenzene	ug/L	ND	1000	1000	985	991	99	99	75-125	.6	30	
Bromochloromethane	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	30	
Bromodichloromethane	ug/L	ND	1000	1000	1080	1090	108	109	75-125	.4	30	
Bromoform	ug/L	ND	1000	1000	1030	1020	103	102	68-133	.9	30	
Bromomethane	ug/L	ND	1000	1000	1040	1020	104	102	56-150	1	30	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499092 1499093

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Carbon tetrachloride	ug/L	ND	1000	1000	1150	1140	115	114	75-137	.8	30	
Chlorobenzene	ug/L	ND	1000	1000	998	1010	100	101	75-125	.8	30	
Chloroethane	ug/L	ND	1000	1000	1510	1490	151	149	64-150	1	30	CH,M0
Chloroform	ug/L	ND	1000	1000	1060	1060	106	106	75-127	.6	30	
Chloromethane	ug/L	ND	1000	1000	1280	1240	128	124	65-140	3	30	
cis-1,2-Dichloroethene	ug/L	ND	1000	1000	1110	1080	111	108	75-129	3	30	
cis-1,3-Dichloropropene	ug/L	ND	1000	1000	1060	1070	106	107	75-125	.5	30	
Dibromochloromethane	ug/L	ND	1000	1000	1040	1040	104	104	75-125	.05	30	
Dibromomethane	ug/L	ND	1000	1000	1040	1040	104	104	75-125	.5	30	
Dichlorodifluoromethane	ug/L	ND	1000	1000	2040	1980	204	198	70-150	3	30	M1
Dichlorofluoromethane	ug/L	ND	1000	1000	1260	1250	126	125	69-142	.9	30	
Diethyl ether (Ethyl ether)	ug/L	ND	1000	1000	1040	1020	104	102	75-125	2	30	
Ethylbenzene	ug/L	1250	1000	1000	2320	2320	106	107	75-125	.3	30	
Hexachloro-1,3-butadiene	ug/L	ND	1000	1000	1120	1110	112	111	75-135	.3	30	
Isopropylbenzene (Cumene)	ug/L	57.1	1000	1000	1140	1150	108	109	75-125	1	30	
Methyl-tert-butyl ether	ug/L	83.0	1000	1000	1120	1110	104	102	70-132	1	30	
Methylene Chloride	ug/L	ND	1000	1000	1070	1070	106	106	73-125	.2	30	
n-Butylbenzene	ug/L	ND	1000	1000	1090	1090	108	108	75-130	.04	30	
n-Propylbenzene	ug/L	125	1000	1000	1160	1170	103	104	75-128	.8	30	
Naphthalene	ug/L	342	1000	1000	1380	1370	104	103	73-126	.7	30	
p-Isopropyltoluene	ug/L	ND	1000	1000	1110	1110	109	109	75-125	.09	30	
sec-Butylbenzene	ug/L	ND	1000	1000	1090	1090	108	107	75-126	.2	30	
Styrene	ug/L	ND	1000	1000	1050	1070	105	106	52-137	1	30	
tert-Butylbenzene	ug/L	ND	1000	1000	1030	1050	103	105	75-125	2	30	
Tetrachloroethene	ug/L	ND	1000	1000	1030	1040	103	104	75-130	1	30	
Tetrahydrofuran	ug/L	ND	10000	10000	9520	9660	95	96	69-125	2	30	
Toluene	ug/L	7190	1000	1000	8180	8240	99	105	75-125	.7	30	
trans-1,2-Dichloroethene	ug/L	ND	1000	1000	1110	1100	111	110	75-135	.7	30	
trans-1,3-Dichloropropene	ug/L	ND	1000	1000	1040	1050	104	105	75-125	1	30	
Trichloroethene	ug/L	ND	1000	1000	1080	1090	108	109	75-129	.5	30	
Trichlorofluoromethane	ug/L	ND	1000	1000	1560	1540	156	154	75-150	1	30	M1
Vinyl chloride	ug/L	ND	1000	1000	1320	1310	132	131	75-147	1	30	
Xylene (Total)	ug/L	10800	3000	3000	14000	14300	108	116	75-125	2	30	
1,2-Dichloroethane-d4 (S)	%						101	101	75-125			
4-Bromofluorobenzene (S)	%						98	97	75-125			
Toluene-d8 (S)	%						96	96	75-125			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: MSV/24615 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10237828006

METHOD BLANK: 1502682 Matrix: Water
Associated Lab Samples: 10237828006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/16/13 01:02	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/16/13 01:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/16/13 01:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/16/13 01:02	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/16/13 01:02	
1,1-Dichloroethane	ug/L	ND	1.0	08/16/13 01:02	
1,1-Dichloroethene	ug/L	ND	1.0	08/16/13 01:02	
1,1-Dichloropropene	ug/L	ND	1.0	08/16/13 01:02	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/16/13 01:02	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/16/13 01:02	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/16/13 01:02	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/16/13 01:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/16/13 01:02	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/16/13 01:02	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/16/13 01:02	
1,2-Dichloroethane	ug/L	ND	1.0	08/16/13 01:02	
1,2-Dichloropropane	ug/L	ND	4.0	08/16/13 01:02	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/16/13 01:02	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/16/13 01:02	
1,3-Dichloropropane	ug/L	ND	1.0	08/16/13 01:02	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/16/13 01:02	
2,2-Dichloropropane	ug/L	ND	4.0	08/16/13 01:02	
2-Butanone (MEK)	ug/L	ND	5.0	08/16/13 01:02	
2-Chlorotoluene	ug/L	ND	1.0	08/16/13 01:02	
4-Chlorotoluene	ug/L	ND	1.0	08/16/13 01:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/16/13 01:02	
Acetone	ug/L	ND	20.0	08/16/13 01:02	
Allyl chloride	ug/L	ND	4.0	08/16/13 01:02	
Benzene	ug/L	ND	1.0	08/16/13 01:02	
Bromobenzene	ug/L	ND	1.0	08/16/13 01:02	
Bromochloromethane	ug/L	ND	1.0	08/16/13 01:02	
Bromodichloromethane	ug/L	ND	1.0	08/16/13 01:02	
Bromoform	ug/L	ND	4.0	08/16/13 01:02	
Bromomethane	ug/L	ND	4.0	08/16/13 01:02	
Carbon tetrachloride	ug/L	ND	1.0	08/16/13 01:02	
Chlorobenzene	ug/L	ND	1.0	08/16/13 01:02	
Chloroethane	ug/L	ND	1.0	08/16/13 01:02	
Chloroform	ug/L	ND	1.0	08/16/13 01:02	
Chloromethane	ug/L	ND	4.0	08/16/13 01:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/16/13 01:02	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/16/13 01:02	
Dibromochloromethane	ug/L	ND	1.0	08/16/13 01:02	
Dibromomethane	ug/L	ND	4.0	08/16/13 01:02	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

METHOD BLANK: 1502682 Matrix: Water

Associated Lab Samples: 10237828006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/16/13 01:02	
Dichlorofluoromethane	ug/L	ND	1.0	08/16/13 01:02	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/16/13 01:02	
Ethylbenzene	ug/L	ND	1.0	08/16/13 01:02	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/16/13 01:02	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/16/13 01:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/16/13 01:02	
Methylene Chloride	ug/L	ND	4.0	08/16/13 01:02	
n-Butylbenzene	ug/L	ND	1.0	08/16/13 01:02	
n-Propylbenzene	ug/L	ND	1.0	08/16/13 01:02	
Naphthalene	ug/L	ND	4.0	08/16/13 01:02	
p-Isopropyltoluene	ug/L	ND	1.0	08/16/13 01:02	
sec-Butylbenzene	ug/L	ND	1.0	08/16/13 01:02	
Styrene	ug/L	ND	1.0	08/16/13 01:02	
tert-Butylbenzene	ug/L	ND	1.0	08/16/13 01:02	
Tetrachloroethene	ug/L	ND	1.0	08/16/13 01:02	
Tetrahydrofuran	ug/L	ND	10.0	08/16/13 01:02	
Toluene	ug/L	ND	1.0	08/16/13 01:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/16/13 01:02	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/16/13 01:02	
Trichloroethene	ug/L	ND	0.40	08/16/13 01:02	
Trichlorofluoromethane	ug/L	ND	1.0	08/16/13 01:02	
Vinyl chloride	ug/L	ND	0.20	08/16/13 01:02	
Xylene (Total)	ug/L	ND	3.0	08/16/13 01:02	
1,2-Dichloroethane-d4 (S)	%	100	75-125	08/16/13 01:02	
4-Bromofluorobenzene (S)	%	101	75-125	08/16/13 01:02	
Toluene-d8 (S)	%	101	75-125	08/16/13 01:02	

LABORATORY CONTROL SAMPLE: 1502683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.1	111	75-125	
1,1,1-Trichloroethane	ug/L	20	22.4	112	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	75-125	
1,1,2-Trichloroethane	ug/L	20	21.9	110	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.7	99	51-139	
1,1-Dichloroethane	ug/L	20	22.0	110	75-125	
1,1-Dichloroethene	ug/L	20	20.2	101	71-126	
1,1-Dichloropropene	ug/L	20	21.5	107	74-125	
1,2,3-Trichlorobenzene	ug/L	20	23.1	115	75-125	
1,2,3-Trichloropropane	ug/L	20	21.5	107	75-125	
1,2,4-Trichlorobenzene	ug/L	20	21.8	109	75-125	
1,2,4-Trimethylbenzene	ug/L	20	21.9	110	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	21.5	108	75-125	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

LABORATORY CONTROL SAMPLE: 1502683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	20.7	104	75-125	
1,2-Dichloroethane	ug/L	20	20.6	103	74-125	
1,2-Dichloropropane	ug/L	20	21.3	106	75-125	
1,3,5-Trimethylbenzene	ug/L	20	21.9	109	75-125	
1,3-Dichlorobenzene	ug/L	20	21.1	106	75-125	
1,3-Dichloropropane	ug/L	20	20.6	103	75-125	
1,4-Dichlorobenzene	ug/L	20	20.7	104	75-125	
2,2-Dichloropropane	ug/L	20	22.1	110	67-132	
2-Butanone (MEK)	ug/L	100	101	101	68-126	
2-Chlorotoluene	ug/L	20	21.3	106	74-125	
4-Chlorotoluene	ug/L	20	21.6	108	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	72-125	
Acetone	ug/L	100	103	103	69-132	
Allyl chloride	ug/L	20	20.8	104	74-125	
Benzene	ug/L	20	20.6	103	75-125	
Bromobenzene	ug/L	20	20.8	104	75-125	
Bromochloromethane	ug/L	20	21.4	107	75-125	
Bromodichloromethane	ug/L	20	22.1	110	75-125	
Bromoform	ug/L	20	21.9	110	75-126	
Bromomethane	ug/L	20	23.4	117	30-150	
Carbon tetrachloride	ug/L	20	23.8	119	74-127	
Chlorobenzene	ug/L	20	20.8	104	75-125	
Chloroethane	ug/L	20	21.7	109	68-132	
Chloroform	ug/L	20	19.7	98	75-125	
Chloromethane	ug/L	20	21.6	108	61-129	
cis-1,2-Dichloroethene	ug/L	20	21.3	107	75-125	
cis-1,3-Dichloropropene	ug/L	20	22.3	111	75-125	
Dibromochloromethane	ug/L	20	22.0	110	75-125	
Dibromomethane	ug/L	20	21.3	107	75-125	
Dichlorodifluoromethane	ug/L	20	17.6	88	49-137	
Dichlorofluoromethane	ug/L	20	20.2	101	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	22.2	111	75-125	
Ethylbenzene	ug/L	20	20.5	102	75-125	
Hexachloro-1,3-butadiene	ug/L	20	21.8	109	69-127	
Isopropylbenzene (Cumene)	ug/L	20	21.6	108	75-125	
Methyl-tert-butyl ether	ug/L	20	23.1	115	74-126	
Methylene Chloride	ug/L	20	19.7	99	75-125	
n-Butylbenzene	ug/L	20	21.8	109	72-126	
n-Propylbenzene	ug/L	20	21.4	107	73-125	
Naphthalene	ug/L	20	22.5	113	75-125	
p-Isopropyltoluene	ug/L	20	22.3	111	74-125	
sec-Butylbenzene	ug/L	20	21.9	109	73-125	
Styrene	ug/L	20	22.1	111	75-125	
tert-Butylbenzene	ug/L	20	21.7	108	73-125	
Tetrachloroethene	ug/L	20	21.2	106	75-125	
Tetrahydrofuran	ug/L	200	210	105	71-125	
Toluene	ug/L	20	20.6	103	75-125	
trans-1,2-Dichloroethene	ug/L	20	22.5	113	74-125	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

LABORATORY CONTROL SAMPLE: 1502683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	22.6	113	75-125	
Trichloroethene	ug/L	20	21.1	105	75-125	
Trichlorofluoromethane	ug/L	20	20.1	101	69-129	
Vinyl chloride	ug/L	20	20.2	101	70-128	
Xylene (Total)	ug/L	60	63.1	105	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE SAMPLE: 1505261

Parameter	Units	10238049003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	23.1	116	75-125	
1,1,1-Trichloroethane	ug/L	ND	20	24.6	123	75-136	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.3	107	66-131	
1,1,2-Trichloroethane	ug/L	ND	20	23.2	116	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	32.5	162	75-150	M1
1,1-Dichloroethane	ug/L	ND	20	22.8	114	75-131	
1,1-Dichloroethene	ug/L	ND	20	23.1	115	75-138	
1,1-Dichloropropene	ug/L	ND	20	23.3	117	75-136	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.2	111	75-125	
1,2,3-Trichloropropane	ug/L	ND	20	21.4	107	71-126	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.3	106	75-125	
1,2,4-Trimethylbenzene	ug/L	ND	20	22.0	110	70-126	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	54.0	108	69-127	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.9	110	75-125	
1,2-Dichlorobenzene	ug/L	ND	20	21.0	105	75-125	
1,2-Dichloroethane	ug/L	ND	20	21.8	109	74-128	
1,2-Dichloropropane	ug/L	ND	20	22.4	112	75-125	
1,3,5-Trimethylbenzene	ug/L	ND	20	21.7	108	72-126	
1,3-Dichlorobenzene	ug/L	ND	20	21.3	106	75-125	
1,3-Dichloropropane	ug/L	ND	20	21.8	109	75-125	
1,4-Dichlorobenzene	ug/L	ND	20	20.9	104	75-125	
2,2-Dichloropropane	ug/L	ND	20	24.5	123	71-143	
2-Butanone (MEK)	ug/L	ND	100	100	100	64-125	
2-Chlorotoluene	ug/L	ND	20	21.3	107	74-125	
4-Chlorotoluene	ug/L	ND	20	21.7	108	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	109	109	69-125	
Acetone	ug/L	ND	100	128	124	57-135	
Allyl chloride	ug/L	ND	20	24.4	122	73-134	
Benzene	ug/L	ND	20	22.2	111	70-135	
Bromobenzene	ug/L	ND	20	21.8	109	75-125	
Bromochloromethane	ug/L	ND	20	22.5	112	75-125	
Bromodichloromethane	ug/L	ND	20	23.5	117	75-125	
Bromoform	ug/L	ND	20	22.5	112	68-133	
Bromomethane	ug/L	ND	20	25.4	124	56-150	
Carbon tetrachloride	ug/L	ND	20	28.2	141	75-137	M1

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

MATRIX SPIKE SAMPLE: 1505261

Parameter	Units	10238049003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	ND	20	21.7	108	75-125	
Chloroethane	ug/L	ND	20	22.1	110	64-150	
Chloroform	ug/L	ND	20	20.9	105	75-127	
Chloromethane	ug/L	ND	20	21.0	104	65-140	
cis-1,2-Dichloroethene	ug/L	ND	20	22.7	114	75-129	
cis-1,3-Dichloropropene	ug/L	ND	20	22.8	114	75-125	
Dibromochloromethane	ug/L	ND	20	22.7	113	75-125	
Dibromomethane	ug/L	ND	20	21.7	108	75-125	
Dichlorodifluoromethane	ug/L	ND	20	27.6	138	70-150	
Dichlorofluoromethane	ug/L	ND	20	20.9	105	69-142	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20.5	102	75-125	
Ethylbenzene	ug/L	ND	20	21.4	107	75-125	
Hexachloro-1,3-butadiene	ug/L	ND	20	20.8	104	75-135	
Isopropylbenzene (Cumene)	ug/L	ND	20	22.5	112	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	25.1	122	70-132	
Methylene Chloride	ug/L	ND	20	21.1	106	73-125	
n-Butylbenzene	ug/L	ND	20	21.3	106	75-130	
n-Propylbenzene	ug/L	ND	20	21.7	108	75-128	
Naphthalene	ug/L	ND	20	21.6	108	73-126	
p-Isopropyltoluene	ug/L	ND	20	22.2	111	75-125	
sec-Butylbenzene	ug/L	ND	20	21.8	109	75-126	
Styrene	ug/L	ND	20	22.9	115	52-137	
tert-Butylbenzene	ug/L	ND	20	22.0	110	75-125	
Tetrachloroethene	ug/L	ND	20	22.3	112	75-130	
Tetrahydrofuran	ug/L	ND	200	248	124	69-125	
Toluene	ug/L	1.0	20	23.2	111	75-125	
trans-1,2-Dichloroethene	ug/L	ND	20	22.7	114	75-135	
trans-1,3-Dichloropropene	ug/L	ND	20	23.2	116	75-125	
Trichloroethene	ug/L	ND	20	22.6	113	75-129	
Trichlorofluoromethane	ug/L	ND	20	24.1	121	75-150	
Vinyl chloride	ug/L	ND	20	22.0	110	75-147	
Xylene (Total)	ug/L	ND	60	65.9	110	75-125	
1,2-Dichloroethane-d4 (S)	%				101	75-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 1505260

Parameter	Units	10238049002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

SAMPLE DUPLICATE: 1505260

Parameter	Units	10238049002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Allyl chloride	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	.41J		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Dichlorofluoromethane	ug/L	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

SAMPLE DUPLICATE: 1505260

Parameter	Units	10238049002 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Tetrahydrofuran	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	100	.1		
4-Bromofluorobenzene (S)	%	101	103	2		
Toluene-d8 (S)	%	101	101	.06		

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: MSV/24651 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10237828005

METHOD BLANK: 1505112 Matrix: Water
Associated Lab Samples: 10237828005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	08/19/13 12:55	
1,1,1-Trichloroethane	ug/L	ND	1.0	08/19/13 12:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/19/13 12:55	
1,1,2-Trichloroethane	ug/L	ND	1.0	08/19/13 12:55	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	08/19/13 12:55	
1,1-Dichloroethane	ug/L	ND	1.0	08/19/13 12:55	
1,1-Dichloroethene	ug/L	ND	1.0	08/19/13 12:55	
1,1-Dichloropropene	ug/L	ND	1.0	08/19/13 12:55	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	08/19/13 12:55	
1,2,3-Trichloropropane	ug/L	ND	4.0	08/19/13 12:55	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	08/19/13 12:55	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	08/19/13 12:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	08/19/13 12:55	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	08/19/13 12:55	
1,2-Dichlorobenzene	ug/L	ND	1.0	08/19/13 12:55	
1,2-Dichloroethane	ug/L	ND	1.0	08/19/13 12:55	
1,2-Dichloropropane	ug/L	ND	4.0	08/19/13 12:55	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	08/19/13 12:55	
1,3-Dichlorobenzene	ug/L	ND	1.0	08/19/13 12:55	
1,3-Dichloropropane	ug/L	ND	1.0	08/19/13 12:55	
1,4-Dichlorobenzene	ug/L	ND	1.0	08/19/13 12:55	
2,2-Dichloropropane	ug/L	ND	4.0	08/19/13 12:55	
2-Butanone (MEK)	ug/L	ND	5.0	08/19/13 12:55	
2-Chlorotoluene	ug/L	ND	1.0	08/19/13 12:55	
4-Chlorotoluene	ug/L	ND	1.0	08/19/13 12:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	08/19/13 12:55	
Acetone	ug/L	ND	20.0	08/19/13 12:55	
Allyl chloride	ug/L	ND	4.0	08/19/13 12:55	
Benzene	ug/L	ND	1.0	08/19/13 12:55	
Bromobenzene	ug/L	ND	1.0	08/19/13 12:55	
Bromochloromethane	ug/L	ND	1.0	08/19/13 12:55	
Bromodichloromethane	ug/L	ND	1.0	08/19/13 12:55	
Bromoform	ug/L	ND	4.0	08/19/13 12:55	
Bromomethane	ug/L	ND	4.0	08/19/13 12:55	
Carbon tetrachloride	ug/L	ND	1.0	08/19/13 12:55	
Chlorobenzene	ug/L	ND	1.0	08/19/13 12:55	
Chloroethane	ug/L	ND	1.0	08/19/13 12:55	
Chloroform	ug/L	ND	1.0	08/19/13 12:55	
Chloromethane	ug/L	ND	4.0	08/19/13 12:55	
cis-1,2-Dichloroethene	ug/L	ND	1.0	08/19/13 12:55	
cis-1,3-Dichloropropene	ug/L	ND	4.0	08/19/13 12:55	
Dibromochloromethane	ug/L	ND	1.0	08/19/13 12:55	
Dibromomethane	ug/L	ND	4.0	08/19/13 12:55	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

METHOD BLANK: 1505112 Matrix: Water

Associated Lab Samples: 10237828005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	08/19/13 12:55	
Dichlorofluoromethane	ug/L	ND	1.0	08/19/13 12:55	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	08/19/13 12:55	
Ethylbenzene	ug/L	ND	1.0	08/19/13 12:55	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	08/19/13 12:55	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	08/19/13 12:55	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/19/13 12:55	
Methylene Chloride	ug/L	ND	4.0	08/19/13 12:55	
n-Butylbenzene	ug/L	ND	1.0	08/19/13 12:55	
n-Propylbenzene	ug/L	ND	1.0	08/19/13 12:55	
Naphthalene	ug/L	ND	4.0	08/19/13 12:55	
p-Isopropyltoluene	ug/L	ND	1.0	08/19/13 12:55	
sec-Butylbenzene	ug/L	ND	1.0	08/19/13 12:55	
Styrene	ug/L	ND	1.0	08/19/13 12:55	
tert-Butylbenzene	ug/L	ND	1.0	08/19/13 12:55	
Tetrachloroethene	ug/L	ND	1.0	08/19/13 12:55	
Tetrahydrofuran	ug/L	ND	10.0	08/19/13 12:55	
Toluene	ug/L	ND	1.0	08/19/13 12:55	
trans-1,2-Dichloroethene	ug/L	ND	1.0	08/19/13 12:55	
trans-1,3-Dichloropropene	ug/L	ND	4.0	08/19/13 12:55	
Trichloroethene	ug/L	ND	0.40	08/19/13 12:55	
Trichlorofluoromethane	ug/L	ND	1.0	08/19/13 12:55	
Vinyl chloride	ug/L	ND	0.20	08/19/13 12:55	
Xylene (Total)	ug/L	ND	3.0	08/19/13 12:55	
1,2-Dichloroethane-d4 (S)	%	101	75-125	08/19/13 12:55	
4-Bromofluorobenzene (S)	%	101	75-125	08/19/13 12:55	
Toluene-d8 (S)	%	101	75-125	08/19/13 12:55	

LABORATORY CONTROL SAMPLE: 1505113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	75-125	
1,1,1-Trichloroethane	ug/L	20	21.2	106	75-126	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	75-125	
1,1,2-Trichloroethane	ug/L	20	20.2	101	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.3	102	51-139	
1,1-Dichloroethane	ug/L	20	21.6	108	75-125	
1,1-Dichloroethene	ug/L	20	20.7	104	71-126	
1,1-Dichloropropene	ug/L	20	21.1	106	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.9	99	75-125	
1,2,3-Trichloropropane	ug/L	20	21.1	105	75-125	
1,2,4-Trichlorobenzene	ug/L	20	20.2	101	75-125	
1,2,4-Trimethylbenzene	ug/L	20	20.9	105	75-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.5	101	73-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.8	104	75-125	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

LABORATORY CONTROL SAMPLE: 1505113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.6	98	75-125	
1,2-Dichloroethane	ug/L	20	20.6	103	74-125	
1,2-Dichloropropane	ug/L	20	20.1	101	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.8	104	75-125	
1,3-Dichlorobenzene	ug/L	20	19.9	99	75-125	
1,3-Dichloropropane	ug/L	20	20.0	100	75-125	
1,4-Dichlorobenzene	ug/L	20	19.3	96	75-125	
2,2-Dichloropropane	ug/L	20	21.9	109	67-132	
2-Butanone (MEK)	ug/L	100	100	100	68-126	
2-Chlorotoluene	ug/L	20	20.5	103	74-125	
4-Chlorotoluene	ug/L	20	20.4	102	74-125	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	72-125	
Acetone	ug/L	100	91.2	91	69-132	
Allyl chloride	ug/L	20	21.6	108	74-125	
Benzene	ug/L	20	20.8	104	75-125	
Bromobenzene	ug/L	20	20.7	103	75-125	
Bromochloromethane	ug/L	20	20.8	104	75-125	
Bromodichloromethane	ug/L	20	20.8	104	75-125	
Bromoform	ug/L	20	20.0	100	75-126	
Bromomethane	ug/L	20	35.9	179	30-150	CH,L0,SS
Carbon tetrachloride	ug/L	20	21.9	110	74-127	
Chlorobenzene	ug/L	20	20.1	100	75-125	
Chloroethane	ug/L	20	20.9	104	68-132	
Chloroform	ug/L	20	19.5	97	75-125	
Chloromethane	ug/L	20	22.2	111	61-129	
cis-1,2-Dichloroethene	ug/L	20	21.4	107	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	75-125	
Dibromochloromethane	ug/L	20	20.1	100	75-125	
Dibromomethane	ug/L	20	20.3	102	75-125	
Dichlorodifluoromethane	ug/L	20	21.1	105	49-137	
Dichlorofluoromethane	ug/L	20	21.3	107	66-133	
Diethyl ether (Ethyl ether)	ug/L	20	19.2	96	75-125	
Ethylbenzene	ug/L	20	20.1	100	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.6	98	69-127	
Isopropylbenzene (Cumene)	ug/L	20	21.5	108	75-125	
Methyl-tert-butyl ether	ug/L	20	19.8	99	74-126	
Methylene Chloride	ug/L	20	19.9	99	75-125	
n-Butylbenzene	ug/L	20	20.2	101	72-126	
n-Propylbenzene	ug/L	20	20.8	104	73-125	
Naphthalene	ug/L	20	21.5	108	75-125	
p-Isopropyltoluene	ug/L	20	21.2	106	74-125	
sec-Butylbenzene	ug/L	20	21.1	105	73-125	
Styrene	ug/L	20	20.7	104	75-125	
tert-Butylbenzene	ug/L	20	21.2	106	73-125	
Tetrachloroethene	ug/L	20	20.4	102	75-125	
Tetrahydrofuran	ug/L	200	203	102	71-125	
Toluene	ug/L	20	20.9	104	75-125	
trans-1,2-Dichloroethene	ug/L	20	20.7	104	74-125	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

LABORATORY CONTROL SAMPLE: 1505113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	20.7	104	75-125	
Trichloroethene	ug/L	20	20.5	102	75-125	
Trichlorofluoromethane	ug/L	20	21.7	109	69-129	
Vinyl chloride	ug/L	20	22.8	114	70-128	
Xylene (Total)	ug/L	60	63.1	105	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1505475 1505476

Parameter	Units	10238294016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L		20	20	21.4	23.3	107	116	75-125	9	30	
1,1,1-Trichloroethane	ug/L		20	20	23.3	24.8	116	124	75-136	6	30	
1,1,2,2-Tetrachloroethane	ug/L		20	20	21.4	22.4	107	112	66-131	5	30	
1,1,2-Trichloroethane	ug/L		20	20	20.1	22.0	100	110	75-125	9	30	
1,1,2-Trichlorotrifluoroethane	ug/L		20	20	24.7	26.1	123	131	75-150	6	30	
1,1-Dichloroethane	ug/L		20	20	22.3	25.8	111	129	75-131	15	30	
1,1-Dichloroethene	ug/L		20	20	23.4	25.4	117	127	75-138	8	30	
1,1-Dichloropropene	ug/L		20	20	22.5	24.0	113	120	75-136	6	30	
1,2,3-Trichlorobenzene	ug/L		20	20	21.0	22.7	105	113	75-125	8	30	
1,2,3-Trichloropropane	ug/L		20	20	21.7	22.7	109	113	71-126	4	30	
1,2,4-Trichlorobenzene	ug/L		20	20	21.1	22.9	105	115	75-125	8	30	
1,2,4-Trimethylbenzene	ug/L		20	20	22.8	24.6	114	123	70-126	8	30	
1,2-Dibromo-3-chloropropane	ug/L		50	50	50.7	54.8	101	110	69-127	8	30	
1,2-Dibromoethane (EDB)	ug/L		20	20	22.0	23.6	110	118	75-125	7	30	
1,2-Dichlorobenzene	ug/L		20	20	20.4	22.1	102	110	75-125	8	30	
1,2-Dichloroethane	ug/L		20	20	22.6	24.5	113	122	74-128	8	30	
1,2-Dichloropropane	ug/L		20	20	20.9	22.6	104	113	75-125	8	30	
1,3,5-Trimethylbenzene	ug/L		20	20	22.5	24.1	112	121	72-126	7	30	
1,3-Dichlorobenzene	ug/L		20	20	21.1	22.7	105	113	75-125	7	30	
1,3-Dichloropropane	ug/L		20	20	20.1	21.8	101	109	75-125	8	30	
1,4-Dichlorobenzene	ug/L		20	20	20.6	22.1	103	111	75-125	7	30	
2,2-Dichloropropane	ug/L		20	20	24.4	26.4	122	132	71-143	8	30	
2-Butanone (MEK)	ug/L		100	100	107	115	104	112	64-125	7	30	
2-Chlorotoluene	ug/L		20	20	21.7	23.1	109	116	74-125	6	30	
4-Chlorotoluene	ug/L		20	20	21.2	22.5	106	112	75-125	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L		100	100	118	126	117	125	69-125	7	30	
Acetone	ug/L		100	100	99.4	109	94	104	57-135	9	30	
Allyl chloride	ug/L		20	20	23.5	25.8	118	129	73-134	9	30	
Benzene	ug/L	ND	20	20	22.4	23.9	112	120	70-135	7	30	
Bromobenzene	ug/L		20	20	21.8	23.2	109	116	75-125	7	30	
Bromochloromethane	ug/L		20	20	22.0	23.5	110	117	75-125	7	30	
Bromodichloromethane	ug/L		20	20	21.5	23.4	107	117	75-125	9	30	
Bromoform	ug/L		20	20	20.3	21.8	101	109	68-133	7	30	

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1505475 1505476

Parameter	Units	10238294016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromomethane	ug/L		20	20	29.9	36.2	150	181	56-150	19	30	CH, M0, SS
Carbon tetrachloride	ug/L		20	20	23.7	25.6	119	128	75-137	7	30	
Chlorobenzene	ug/L		20	20	21.2	22.7	106	113	75-125	7	30	
Chloroethane	ug/L		20	20	23.1	22.4	115	112	64-150	3	30	
Chloroform	ug/L		20	20	19.4	21.0	97	105	75-127	8	30	
Chloromethane	ug/L		20	20	24.4	25.2	122	126	65-140	3	30	
cis-1,2-Dichloroethene	ug/L		20	20	23.0	24.4	115	122	75-129	6	30	
cis-1,3-Dichloropropene	ug/L		20	20	22.7	24.5	113	123	75-125	8	30	
Dibromochloromethane	ug/L		20	20	20.0	21.5	100	108	75-125	7	30	
Dibromomethane	ug/L		20	20	21.7	23.7	109	118	75-125	9	30	
Dichlorodifluoromethane	ug/L		20	20	28.9	27.5	144	137	70-150	5	30	
Dichlorofluoromethane	ug/L		20	20	23.2	22.4	116	112	69-142	4	30	
Diethyl ether (Ethyl ether)	ug/L		20	20	20.1	21.8	101	109	75-125	8	30	
Ethylbenzene	ug/L	ND	20	20	21.5	22.9	108	114	75-125	6	30	
Hexachloro-1,3-butadiene	ug/L		20	20	21.2	22.6	106	113	75-135	6	30	
Isopropylbenzene (Cumene)	ug/L		20	20	22.9	24.9	115	124	75-125	8	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.1	23.6	101	118	70-132	16	30	
Methylene Chloride	ug/L		20	20	20.8	22.7	104	113	73-125	9	30	
n-Butylbenzene	ug/L		20	20	22.5	24.4	112	122	75-130	8	30	
n-Propylbenzene	ug/L		20	20	23.0	24.3	115	121	75-128	5	30	
Naphthalene	ug/L	ND	20	20	22.7	24.8	113	124	73-126	9	30	
p-Isopropyltoluene	ug/L		20	20	22.6	24.5	113	122	75-125	8	30	
sec-Butylbenzene	ug/L		20	20	22.9	24.7	114	123	75-126	7	30	
Styrene	ug/L		20	20	21.5	23.5	108	118	52-137	9	30	
tert-Butylbenzene	ug/L		20	20	23.3	24.9	116	124	75-125	7	30	
Tetrachloroethene	ug/L		20	20	22.7	24.3	113	121	75-130	7	30	
Tetrahydrofuran	ug/L		200	200	221	236	111	118	69-125	6	30	
Toluene	ug/L	ND	20	20	21.9	23.4	109	117	75-125	7	30	
trans-1,2-Dichloroethene	ug/L		20	20	22.0	23.6	110	118	75-135	7	30	
trans-1,3-Dichloropropene	ug/L		20	20	19.6	21.1	98	106	75-125	8	30	
Trichloroethene	ug/L		20	20	22.9	24.2	114	121	75-129	6	30	
Trichlorofluoromethane	ug/L		20	20	25.8	24.4	129	122	75-150	5	30	
Vinyl chloride	ug/L		20	20	26.9	26.1	135	130	75-147	3	30	
Xylene (Total)	ug/L	ND	60	60	67.6	73.0	113	122	75-125	8	30	
1,2-Dichloroethane-d4 (S)	%						102	102	75-125			
4-Bromofluorobenzene (S)	%						101	100	75-125			
Toluene-d8 (S)	%						101	100	75-125			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: MSV/24557 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237828001, 10237828009

METHOD BLANK: 1498600 Matrix: Water
Associated Lab Samples: 10237828001, 10237828009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/09/13 15:33	
Ethylbenzene	ug/L	ND	1.0	08/09/13 15:33	
Toluene	ug/L	ND	1.0	08/09/13 15:33	
Xylene (Total)	ug/L	ND	3.0	08/09/13 15:33	
1,2-Dichloroethane-d4 (S)	%	96	75-125	08/09/13 15:33	
4-Bromofluorobenzene (S)	%	97	75-125	08/09/13 15:33	
Toluene-d8 (S)	%	99	75-125	08/09/13 15:33	

LABORATORY CONTROL SAMPLE: 1498601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.9	99	75-125	
Ethylbenzene	ug/L	20	19.6	98	75-125	
Toluene	ug/L	20	19.5	98	75-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498602 1498603

Parameter	Units	10237814010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.5	19.8	107	99	70-135	8	30	
Ethylbenzene	ug/L	ND	20	20	21.8	19.8	109	99	75-125	10	30	
Toluene	ug/L	ND	20	20	21.7	19.6	108	98	75-125	10	30	
Xylene (Total)	ug/L	ND	60	60	66.1	60.6	110	101	75-125	9	30	
1,2-Dichloroethane-d4 (S)	%						94	92	75-125			
4-Bromofluorobenzene (S)	%						97	98	75-125			
Toluene-d8 (S)	%						99	99	75-125			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: MSV/24577
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237828010

METHOD BLANK: 1499937 Matrix: Water
Associated Lab Samples: 10237828010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/12/13 12:37	
Ethylbenzene	ug/L	ND	1.0	08/12/13 12:37	
Toluene	ug/L	ND	1.0	08/12/13 12:37	
Xylene (Total)	ug/L	ND	3.0	08/12/13 12:37	
1,2-Dichloroethane-d4 (S)	%	96	75-125	08/12/13 12:37	
4-Bromofluorobenzene (S)	%	96	75-125	08/12/13 12:37	
Toluene-d8 (S)	%	102	75-125	08/12/13 12:37	

LABORATORY CONTROL SAMPLE: 1499938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.2	96	75-125	
Ethylbenzene	ug/L	20	18.6	93	75-125	
Toluene	ug/L	20	19.5	97	75-125	
Xylene (Total)	ug/L	60	56.1	94	75-125	
1,2-Dichloroethane-d4 (S)	%			99	75-125	
4-Bromofluorobenzene (S)	%			93	75-125	
Toluene-d8 (S)	%			105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499939 1499940

Parameter	Units	10238178017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	25.3	22.3	126	111	70-135	12	30	
Ethylbenzene	ug/L	ND	20	20	20.8	21.0	104	105	75-125	1	30	
Toluene	ug/L	ND	20	20	20.5	21.5	103	107	75-125	4	30	
Xylene (Total)	ug/L	ND	60	60	61.7	63.8	103	106	75-125	3	30	
1,2-Dichloroethane-d4 (S)	%						91	88	75-125			
4-Bromofluorobenzene (S)	%						95	95	75-125			
Toluene-d8 (S)	%						100	100	75-125			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: MSV/24600 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237828004, 10237828007, 10237828008

METHOD BLANK: 1501478 Matrix: Water
Associated Lab Samples: 10237828004, 10237828007, 10237828008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/14/13 08:37	
Ethylbenzene	ug/L	ND	1.0	08/14/13 08:37	
Toluene	ug/L	ND	1.0	08/14/13 08:37	
Xylene (Total)	ug/L	ND	3.0	08/14/13 08:37	
1,2-Dichloroethane-d4 (S)	%	100	75-125	08/14/13 08:37	
4-Bromofluorobenzene (S)	%	103	75-125	08/14/13 08:37	
Toluene-d8 (S)	%	102	75-125	08/14/13 08:37	

LABORATORY CONTROL SAMPLE: 1501479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.0	85	75-125	
Ethylbenzene	ug/L	20	16.8	84	75-125	
Toluene	ug/L	20	17.3	86	75-125	
Xylene (Total)	ug/L	60	52.0	87	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1502143 1502144

Parameter	Units	10238591002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	100	100	92.1	89.9	92	90	70-135	2	30	
Ethylbenzene	ug/L	ND	100	100	90.8	86.2	91	86	75-125	5	30	
Toluene	ug/L	ND	100	100	91.4	88.9	91	89	75-125	3	30	
Xylene (Total)	ug/L	ND	300	300	282	271	94	90	75-125	4	30	
1,2-Dichloroethane-d4 (S)	%						104	104	75-125			
4-Bromofluorobenzene (S)	%						103	102	75-125			
Toluene-d8 (S)	%						103	101	75-125			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: OEXT/22703 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 10237828003, 10237828005, 10237828006

METHOD BLANK: 1504127 Matrix: Water
Associated Lab Samples: 10237828003, 10237828005, 10237828006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.010	08/16/13 20:01	
4-Bromofluorobenzene (S)	%	103	70-130	08/16/13 20:01	

LABORATORY CONTROL SAMPLE: 1504128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.11	0.12	109	60-140	
4-Bromofluorobenzene (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1504129 1504130

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.045	.1	.1	0.15	0.16	102	111	60-140	5	20	
4-Bromofluorobenzene (S)	%						65	76	70-130			S0

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: OEXT/22740 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 10237828002

METHOD BLANK: 1506806 Matrix: Water
Associated Lab Samples: 10237828002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.010	08/19/13 20:29	
4-Bromofluorobenzene (S)	%	114	70-130	08/19/13 20:29	

LABORATORY CONTROL SAMPLE & LCSD: 1506807 1506808

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.11	0.14	0.12	129	114	60-140	12	20	CH
4-Bromofluorobenzene (S)	%				119	107	70-130			

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: OEXT/22616 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237828001, 10237828002, 10237828003, 10237828004, 10237828005, 10237828006, 10237828007, 10237828008, 10237828009

METHOD BLANK: 1499957 Matrix: Water
Associated Lab Samples: 10237828001, 10237828002, 10237828003, 10237828004, 10237828005, 10237828006, 10237828007, 10237828008, 10237828009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102	mg/L	ND	0.40	08/13/13 18:16	N2
Residual Range Organics AK103	mg/L	ND	1.0	08/13/13 18:16	N2
n-Triacontane (S)	%	88	60-120	08/13/13 18:16	
o-Terphenyl (S)	%	81	60-120	08/13/13 18:16	

LABORATORY CONTROL SAMPLE: 1499958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102	mg/L	2	1.9	95	75-125	N2
Residual Range Organics AK103	mg/L	2	2.2	109	60-120	N2
n-Triacontane (S)	%			85	60-120	
o-Terphenyl (S)	%			93	60-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499959 1499960

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
DRO by AK 102	mg/L	37.4	2.5	2.1	20.5	61.9	-676	1180	50-150	100	20	E,M3, N2,R1
Residual Range Organics AK103	mg/L	1.4	2.5	2.1	4.0	4.0	105	129	50-150	2	20	N2
n-Triacontane (S)	%						87	87	50-150			
o-Terphenyl (S)	%						84	120	50-150			

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 211815 FAR Texaco
Pace Project No.: 10237828

QC Batch: OEXT/22719 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237828001, 10237828002, 10237828003, 10237828004, 10237828005, 10237828006, 10237828007, 10237828008

METHOD BLANK: 1505491 Matrix: Water
Associated Lab Samples: 10237828001, 10237828002, 10237828003, 10237828004, 10237828005, 10237828006, 10237828007, 10237828008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	ND	0.40	08/22/13 17:04	N2
n-Triacontane (S) SG	%	86	60-120	08/22/13 17:04	
o-Terphenyl (S) SG	%	82	60-120	08/22/13 17:04	

LABORATORY CONTROL SAMPLE: 1505492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	2	1.6	81	75-125	N2
n-Triacontane (S) SG	%			84	60-120	
o-Terphenyl (S) SG	%			94	60-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1505493 1505494

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
DRO by AK 102 Silica Gel Clean	mg/L	27.1	2.5	2.1	12.1	51.5	-601	1170	50-150	124	20	E,M1, N2,R1
n-Triacontane (S) SG	%						84	85	50-150			
o-Terphenyl (S) SG	%						82	124	50-150			

REPORT OF LABORATORY ANALYSIS

QUALIFIERS

Project: 211815 FAR Texaco
Pace Project No.: 10237828

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10237828002	**MW-3-W-080513**	EPA 8011	OEXT/22740	EPA 8011	GCSV/11908
10237828003	**MW-4-W-080513**	EPA 8011	OEXT/22703	EPA 8011	GCSV/11895
10237828005	**MW-8-W-080513**	EPA 8011	OEXT/22703	EPA 8011	GCSV/11895
10237828006	**MW-9-W-080513**	EPA 8011	OEXT/22703	EPA 8011	GCSV/11895
10237828001	**MW-1-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828001	**MW-1-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828002	**MW-3-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828002	**MW-3-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828003	**MW-4-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828003	**MW-4-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828004	**MW-5-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828004	**MW-5-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828005	**MW-8-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828005	**MW-8-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828006	**MW-9-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828006	**MW-9-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828007	**AR-81-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828007	**AR-81-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828008	**AR-85-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828008	**AR-85-W-080513**	EPA 3510	OEXT/22719	Alaska 102/103	GCSV/11903
10237828009	**BD-3-W-080513**	EPA 3510	OEXT/22616	Alaska 102/103	GCSV/11865
10237828001	**MW-1-W-080513**	Alaska 101	GCV/11180		
10237828002	**MW-3-W-080513**	Alaska 101	GCV/11180		
10237828003	**MW-4-W-080513**	Alaska 101	GCV/11180		
10237828004	**MW-5-W-080513**	Alaska 101	GCV/11180		
10237828005	**MW-8-W-080513**	Alaska 101	GCV/11180		
10237828006	**MW-9-W-080513**	Alaska 101	GCV/11193		
10237828007	**AR-81-W-080513**	Alaska 101	GCV/11193		
10237828008	**AR-85-W-080513**	Alaska 101	GCV/11193		
10237828009	**BD-3-W-080513**	Alaska 101	GCV/11204		
10237828010	**Trip Blank**	Alaska 101	GCV/11193		
10237828002	**MW-3-W-080513**	EPA 8260	MSV/24567		
10237828003	**MW-4-W-080513**	EPA 8260	MSV/24567		
10237828005	**MW-8-W-080513**	EPA 8260	MSV/24651		
10237828006	**MW-9-W-080513**	EPA 8260	MSV/24615		
10237828001	**MW-1-W-080513**	EPA 8260	MSV/24557		

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 211815 FAR Texaco
Pace Project No.: 10237828

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10237828004	**MW-5-W-080513**	EPA 8260	MSV/24600		
10237828007	**AR-81-W-080513**	EPA 8260	MSV/24600		
10237828008	**AR-85-W-080513**	EPA 8260	MSV/24600		
10237828009	**BD-3-W-080513**	EPA 8260	MSV/24557		
10237828010	**Trip Blank**	EPA 8260	MSV/24577		

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www.pacelabs.com

1123,28,25

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10237629

Page: 1 of 1

1681741

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: David.Beaudoin@arcadis-us.com	Attention:
Address: 1100 Olive Way STE 300 Seattle, WA 98102	Copy To: Michael.MacDaniel@arcadis-us.com	Company Name:
Email To: Gregory.Montgomery@arcadis-us.com	Purchase Order No.: B00155[illegible].0009	Address:
Phone: 206-726-4743 Fax:	Project Name: FAR Chevron Texaco	Pace Quote Reference:
Requested Due Date/TAT: STANDARD	Project Number: 21815	Pace Project Manager:
		Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: AK

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: BTEX by 8260	GRO by AK 101	DRO by AK 102	DRO with SG by AK 102	RRO by AK 102	VOCs by 8260B	EDB by 8011	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1-W-080513	WT	G			8/5/13	1615						X						X	X	X	X	X					001
2	MW-3-W-080513	WT	G			8/5/13	1915						X						X	X	X	X	X	X	X			002
3	MW-4-W-080513	WT	G			8/5/13	1850						X						X	X	X	X	X	X	X			003
4	MW-5-W-080513	WT	G			8/5/13	1950						X						X	X	X	X	X					004
5	MW-8-W-080513	WT	G			8/5/13	1930						X						X	X	X	X	X	X	X			005
6	MW-9-W-080513	WT	G			8/5/13	1515						X						X	X	X	X	X	X	X			006
7	AR-81-W-080513	WT	G			8/5/13	1745						X						X	X	X	X	X					007
8	AR-85-W-080513	WT	G			8/5/13	1700						X						X	X	X	X	X					008
9	BD-3-W-080513	WT	G			8/5/13	—						X						X	X	X		X					009
10	MS-W-080513	WT	G			8/5/13	1850						X						X	X	X		X					003
11	MSD-W-080513	WT	G			8/5/13	1850						X						X	X	X		X					003
12	Trip Blank	WT	-			—							X						X	X								010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DRO SG = DRO with Silica Gel	MM / ARCADIS	8/6/13	1000	CSI / Pace	8-7-13	911	1.6 4.0	Y	Y	Y
MW-4, Suspected High TPH concentrations										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael MacDaniel

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/06/13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.06**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Arcadis **Project #:** WO#: 10237828

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 802669112607, 795806502939

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Optional:** Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ B88A912167504 ☐ 80512447 ☑ 72337080 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.3, 3.7, 4.8 **Cooler Temp Corrected (°C):** 1.6, 4.0 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +0.3 **Date and Initials of Person Examining Contents:** CJ 8-7-13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12. Only 1 Custody Seal
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: CJ Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☑ Yes	☐ No	☐ N/A	14. 5 TB
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 071CB/061IB-1				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Mariah Kleist **Date:** 8/7/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 21, 2013

Gregory Montgomery
Arcadis US, Inc.
1100 Olive Way
Suite 800
Seattle, WA 98101

RE: Project: Chevron# 306456
Pace Project No.: 10237814

Dear Gregory Montgomery:
Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Michael MacDaniel, Arcadis US, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Chevron# 306456
Pace Project No.: 10237814

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Chevron# 306456
Pace Project No.: 10237814

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10237814001	**GEI-1-W-080213**	Water	08/02/13 12:30	08/07/13 09:11
10237814002	**GEI-2-W-080213**	Water	08/02/13 13:00	08/07/13 09:11
10237814003	**GEI-3-W-080213**	Water	08/02/13 13:30	08/07/13 09:11
10237814004	**GEI-4-W-080213**	Water	08/02/13 10:00	08/07/13 09:11
10237814005	**GEI-6-W-080213**	Water	08/02/13 14:00	08/07/13 09:11
10237814006	**GEI-7-W-080213**	Water	08/02/13 09:20	08/07/13 09:11
10237814007	**GEI-8-W-080213**	Water	08/02/13 08:50	08/07/13 09:11
10237814008	**GEI-9-W-080213**	Water	08/02/13 10:30	08/07/13 09:11
10237814009	**GEI-10-W-080213**	Water	08/02/13 08:30	08/07/13 09:11
10237814010	**MW-1-W-080513**	Water	08/05/13 12:00	08/07/13 09:11
10237814011	**MW-2-W-080513**	Water	08/05/13 11:15	08/07/13 09:11
10237814012	**MW-3-W-080513**	Water	08/05/13 12:45	08/07/13 09:11
10237814013	**MW-4-W-080513**	Water	08/05/13 13:30	08/07/13 09:11
10237814014	**MW-5-W-080213**	Water	08/02/13 16:00	08/07/13 09:11
10237814015	**MW-6-W-080213**	Water	08/02/13 16:30	08/07/13 09:11
10237814016	**MW-14-W-080513**	Water	08/05/13 10:00	08/07/13 09:11
10237814017	**MW-15-W-080513**	Water	08/05/13 10:30	08/07/13 09:11
10237814018	**BD-2-W-080513**	Water	08/05/13 00:00	08/07/13 09:11
10237814019	**Trip Blank**	Water	08/02/13 00:00	08/07/13 09:11

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Chevron# 306456
Pace Project No.: 10237814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10237814001	**GEI-1-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814002	**GEI-2-W-080213**	EPA 8011	KL1	2	PASI-M
		Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	EB2, LPM	10	PASI-M
10237814003	**GEI-3-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814004	**GEI-4-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814005	**GEI-6-W-080213**	Alaska 102/103	JRH, MT	5	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814006	**GEI-7-W-080213**	EPA 8011	KL1	2	PASI-M
		Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	10	PASI-M
10237814007	**GEI-8-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814008	**GEI-9-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814009	**GEI-10-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814010	**MW-1-W-080513**	Alaska 102/103	JRH	4	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814011	**MW-2-W-080513**	Alaska 102/103	JRH	4	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814012	**MW-3-W-080513**	Alaska 102/103	JRH, MT	5	PASI-M
		Alaska 101	LLC	2	PASI-M

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SAMPLE ANALYTE COUNT

Project: Chevron# 306456
Pace Project No.: 10237814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	LPM	10	PASI-M
10237814013	**MW-4-W-080513**	Alaska 102/103	JRH	4	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	10	PASI-M
10237814014	**MW-5-W-080213**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	EB2, LPM	7	PASI-M
10237814015	**MW-6-W-080213**	Alaska 102/103	JRH, MT	5	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	EB2	7	PASI-M
10237814016	**MW-14-W-080513**	Alaska 102/103	JRH, MT	5	PASI-M
		Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	10	PASI-M
10237814017	**MW-15-W-080513**	Alaska 102/103	JRH, MT	7	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	EB2	10	PASI-M
10237814018	**BD-2-W-080513**	Alaska 102/103	JRH	4	PASI-M
		Alaska 101	MJH	2	PASI-M
		EPA 8260	LPM	7	PASI-M
10237814019	**Trip Blank**	Alaska 101	LLC	2	PASI-M
		EPA 8260	LPM	7	PASI-M

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: Arcadis_Chevron
Date: August 21, 2013

General Information:
2 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/22703

S0: Surrogate recovery outside laboratory control limits.
- MS (Lab ID: 1504129)
  - 4-Bromofluorobenzene (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- GEI-2-W-080213 (Lab ID: 10237814002)
  - 4-Bromofluorobenzene (S)
- GEI-7-W-080213 (Lab ID: 10237814006)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 21, 2013

General Information:
18 samples were analyzed for Alaska 102/103. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/22601

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- GEI-1-W-080213 (Lab ID: 10237814001)
  - o-Terphenyl (S)
- GEI-3-W-080213 (Lab ID: 10237814003)
  - o-Terphenyl (S)
- MW-5-W-080213 (Lab ID: 10237814014)
  - o-Terphenyl (S)

QC Batch: OEXT/22684

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GEI-1-W-080213 (Lab ID: 10237814001)
  - n-Triacontane (S) SG
  - o-Terphenyl (S) SG
- GEI-3-W-080213 (Lab ID: 10237814003)
  - n-Triacontane (S) SG
  - o-Terphenyl (S) SG
- GEI-4-W-080213 (Lab ID: 10237814004)
  - n-Triacontane (S) SG
  - o-Terphenyl (S) SG
- GEI-7-W-080213 (Lab ID: 10237814006)
  - n-Triacontane (S) SG
  - o-Terphenyl (S) SG
- GEI-8-W-080213 (Lab ID: 10237814007)
  - n-Triacontane (S) SG
  - o-Terphenyl (S) SG
- GEI-9-W-080213 (Lab ID: 10237814008)

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 21, 2013

QC Batch: OEXT/22684

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- n-Triacontane (S) SG
- o-Terphenyl (S) SG

- MW-5-W-080213 (Lab ID: 10237814014)
  - n-Triacontane (S) SG
  - o-Terphenyl (S) SG

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/22601

N2: The lab does not hold TNI accreditation for this parameter.
- BD-2-W-080513 (Lab ID: 10237814018)
  - DRO by AK 102
  - Residual Range Organics AK103
- BLANK (Lab ID: 1498326)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-1-W-080213 (Lab ID: 10237814001)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-10-W-080213 (Lab ID: 10237814009)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-2-W-080213 (Lab ID: 10237814002)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-3-W-080213 (Lab ID: 10237814003)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-4-W-080213 (Lab ID: 10237814004)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-6-W-080213 (Lab ID: 10237814005)
  - DRO by AK 102

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 21, 2013

Analyte Comments:

QC Batch: OEXT/22601

N2: The lab does not hold TNI accreditation for this parameter.

- GEI-6-W-080213 (Lab ID: 10237814005)
  - Residual Range Organics AK103
- GEI-7-W-080213 (Lab ID: 10237814006)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-8-W-080213 (Lab ID: 10237814007)
  - DRO by AK 102
  - Residual Range Organics AK103
- GEI-9-W-080213 (Lab ID: 10237814008)
  - DRO by AK 102
  - Residual Range Organics AK103
- LCS (Lab ID: 1498327)
  - DRO by AK 102
  - Residual Range Organics AK103
- MS (Lab ID: 1498328)
  - DRO by AK 102
  - Residual Range Organics AK103
- MSD (Lab ID: 1498329)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-1-W-080513 (Lab ID: 10237814010)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-14-W-080513 (Lab ID: 10237814016)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-15-W-080513 (Lab ID: 10237814017)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-2-W-080513 (Lab ID: 10237814011)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-3-W-080513 (Lab ID: 10237814012)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-4-W-080513 (Lab ID: 10237814013)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-5-W-080213 (Lab ID: 10237814014)
  - DRO by AK 102
  - Residual Range Organics AK103
- MW-6-W-080213 (Lab ID: 10237814015)
  - DRO by AK 102

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 102/103**
Description: DRO and RRO by AK102/103
Client: Arcadis_Chevron
Date: August 21, 2013

Analyte Comments:

QC Batch: OEXT/22601

N2: The lab does not hold TNI accreditation for this parameter.
- MW-6-W-080213 (Lab ID: 10237814015)
  - Residual Range Organics AK103

QC Batch: OEXT/22684

N2: The lab does not hold TNI accreditation for this parameter.
- BLANK (Lab ID: 1502585)
  - DRO by AK 102 Silica Gel Clean
- GEI-1-W-080213 (Lab ID: 10237814001)
  - DRO by AK 102 Silica Gel Clean
- GEI-10-W-080213 (Lab ID: 10237814009)
  - DRO by AK 102 Silica Gel Clean
- GEI-2-W-080213 (Lab ID: 10237814002)
  - DRO by AK 102 Silica Gel Clean
- GEI-3-W-080213 (Lab ID: 10237814003)
  - DRO by AK 102 Silica Gel Clean
- GEI-4-W-080213 (Lab ID: 10237814004)
  - DRO by AK 102 Silica Gel Clean
- GEI-6-W-080213 (Lab ID: 10237814005)
  - DRO by AK 102 Silica Gel Clean
- GEI-7-W-080213 (Lab ID: 10237814006)
  - DRO by AK 102 Silica Gel Clean
- GEI-8-W-080213 (Lab ID: 10237814007)
  - DRO by AK 102 Silica Gel Clean
- GEI-9-W-080213 (Lab ID: 10237814008)
  - DRO by AK 102 Silica Gel Clean
- LCS (Lab ID: 1502586)
  - DRO by AK 102 Silica Gel Clean
- MW-14-W-080513 (Lab ID: 10237814016)
  - DRO by AK 102 Silica Gel Clean
- MW-15-W-080513 (Lab ID: 10237814017)
  - DRO by AK 102 Silica Gel Clean
- MW-3-W-080513 (Lab ID: 10237814012)
  - DRO by AK 102 Silica Gel Clean
- MW-5-W-080213 (Lab ID: 10237814014)
  - DRO by AK 102 Silica Gel Clean
- MW-6-W-080213 (Lab ID: 10237814015)
  - DRO by AK 102 Silica Gel Clean

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 101**
Description: AK101 GCV
Client: Arcadis_Chevron
Date: August 21, 2013

General Information:
19 samples were analyzed for Alaska 101. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: GCV/11193

S0: Surrogate recovery outside laboratory control limits.

- MSD (Lab ID: 1499859)
  - a,a,a-Trifluorotoluene (S)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/11180

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237828003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1497257)
  - AK101 Gasoline Range Organics
- MSD (Lab ID: 1497258)
  - AK101 Gasoline Range Organics

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 101**
Description: AK101 GCV
Client: Arcadis_Chevron
Date: August 21, 2013

Analyte Comments:

QC Batch: GCV/11179

N2: The lab does not hold TNI accreditation for this parameter.
- BLANK (Lab ID: 1497245)
  - AK101 Gasoline Range Organics
- GEI-2-W-080213 (Lab ID: 10237814002)
  - AK101 Gasoline Range Organics
- GEI-6-W-080213 (Lab ID: 10237814005)
  - AK101 Gasoline Range Organics
- GEI-8-W-080213 (Lab ID: 10237814007)
  - AK101 Gasoline Range Organics
- GEI-9-W-080213 (Lab ID: 10237814008)
  - AK101 Gasoline Range Organics
- LCS (Lab ID: 1497246)
  - AK101 Gasoline Range Organics
- LCSD (Lab ID: 1497247)
  - AK101 Gasoline Range Organics
- MS (Lab ID: 1497248)
  - AK101 Gasoline Range Organics
- MSD (Lab ID: 1497249)
  - AK101 Gasoline Range Organics
- MW-1-W-080513 (Lab ID: 10237814010)
  - AK101 Gasoline Range Organics
- MW-2-W-080513 (Lab ID: 10237814011)
  - AK101 Gasoline Range Organics
- MW-5-W-080213 (Lab ID: 10237814014)
  - AK101 Gasoline Range Organics
- MW-6-W-080213 (Lab ID: 10237814015)
  - AK101 Gasoline Range Organics

QC Batch: GCV/11180

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MSD (Lab ID: 1497258)
  - AK101 Gasoline Range Organics

N2: The lab does not hold TNI accreditation for this parameter.
- BD-2-W-080513 (Lab ID: 10237814018)
  - AK101 Gasoline Range Organics
- BLANK (Lab ID: 1497254)
  - AK101 Gasoline Range Organics
- LCS (Lab ID: 1497255)
  - AK101 Gasoline Range Organics
- LCSD (Lab ID: 1497256)
  - AK101 Gasoline Range Organics
- MS (Lab ID: 1497257)
  - AK101 Gasoline Range Organics

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **Alaska 101**
Description: AK101 GCV
Client: Arcadis_Chevron
Date: August 21, 2013

Analyte Comments:

QC Batch: GCV/11180

N2: The lab does not hold TNI accreditation for this parameter.

- MSD (Lab ID: 1497258)
  - AK101 Gasoline Range Organics
- MW-15-W-080513 (Lab ID: 10237814017)
  - AK101 Gasoline Range Organics

QC Batch: GCV/11193

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1499855)
  - AK101 Gasoline Range Organics
- GEI-1-W-080213 (Lab ID: 10237814001)
  - AK101 Gasoline Range Organics
- GEI-10-W-080213 (Lab ID: 10237814009)
  - AK101 Gasoline Range Organics
- GEI-3-W-080213 (Lab ID: 10237814003)
  - AK101 Gasoline Range Organics
- GEI-4-W-080213 (Lab ID: 10237814004)
  - AK101 Gasoline Range Organics
- GEI-7-W-080213 (Lab ID: 10237814006)
  - AK101 Gasoline Range Organics
- LCS (Lab ID: 1499856)
  - AK101 Gasoline Range Organics
- LCSD (Lab ID: 1499857)
  - AK101 Gasoline Range Organics
- MS (Lab ID: 1499858)
  - AK101 Gasoline Range Organics
- MSD (Lab ID: 1499859)
  - AK101 Gasoline Range Organics
- MW-14-W-080513 (Lab ID: 10237814016)
  - AK101 Gasoline Range Organics
- MW-3-W-080513 (Lab ID: 10237814012)
  - AK101 Gasoline Range Organics
- MW-4-W-080513 (Lab ID: 10237814013)
  - AK101 Gasoline Range Organics
- Trip Blank (Lab ID: 10237814019)
  - AK101 Gasoline Range Organics

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **EPA 8260**
Description: 8260 VOC
Client: Arcadis_Chevron
Date: August 21, 2013

General Information:
6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Chevron# 306456
Pace Project No.: 10237814

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Arcadis_Chevron
Date: August 21, 2013

General Information:
13 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/24592

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10237814003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1501685)
  - Toluene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: GEI-1-W-080213 **Lab ID: 10237814001** Collected: 08/02/13 12:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**418**	mg/L	40.0	100	08/09/13 07:22	08/13/13 17:09		N2
DRO by AK 102 Silica Gel Clean	**330**	mg/L	40.0	100	08/09/13 07:22	08/20/13 09:25		N2
Residual Range Organics AK103	**4.2**	mg/L	1.0	1	08/09/13 07:22	08/12/13 17:06		N2
Surrogates								
o-Terphenyl (S)	235	%	50-150	1	08/09/13 07:22	08/12/13 17:06	84-15-1	S5
o-Terphenyl (S) SG	0	%	50-150	100	08/09/13 07:22	08/20/13 09:25	84-15-1	S4
n-Triacontane (S)	58	%	50-150	1	08/09/13 07:22	08/12/13 17:06	638-68-6	
n-Triacontane (S) SG	0	%	50-150	100	08/09/13 07:22	08/20/13 09:25		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**42200**	ug/L	5000	50		08/13/13 20:19		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	110	%	60-120	50		08/13/13 20:19	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**2920**	ug/L	50.0	50		08/08/13 19:12	71-43-2	
Ethylbenzene	**538**	ug/L	50.0	50		08/08/13 19:12	100-41-4	
Toluene	**5060**	ug/L	50.0	50		08/08/13 19:12	108-88-3	
Xylene (Total)	**3410**	ug/L	150	50		08/08/13 19:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	75-125	50		08/08/13 19:12	17060-07-0	
Toluene-d8 (S)	100	%	75-125	50		08/08/13 19:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	50		08/08/13 19:12	460-00-4	

Sample: GEI-2-W-080213 **Lab ID: 10237814002** Collected: 08/02/13 13:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**89.8**	ug/L	4.8	500	08/16/13 12:59	08/16/13 23:27	106-93-4	
Surrogates								
4-Bromofluorobenzene (S)	0	%	70-130	500	08/16/13 12:59	08/16/13 23:27	460-00-4	S4
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**96.3**	mg/L	10.0	20	08/09/13 07:22	08/13/13 14:32		N2
DRO by AK 102 Silica Gel Clean	**68.1**	mg/L	5.0	10	08/09/13 07:22	08/20/13 12:24		N2
Residual Range Organics AK103	**3.2**	mg/L	1.2	1	08/09/13 07:22	08/12/13 16:43		N2
Surrogates								
o-Terphenyl (S)	98	%	50-150	1	08/09/13 07:22	08/12/13 16:43	84-15-1	
o-Terphenyl (S) SG	99	%	50-150	10	08/09/13 07:22	08/20/13 12:24	84-15-1	
n-Triacontane (S)	88	%	50-150	1	08/09/13 07:22	08/12/13 16:43	638-68-6	
n-Triacontane (S) SG	95	%	50-150	10	08/09/13 07:22	08/20/13 12:24		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**230000**	ug/L	5000	50		08/09/13 18:42		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: GEI-2-W-080213 **Lab ID: 10237814002** Collected: 08/02/13 13:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101							
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%	60-120	50		08/09/13 18:42	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	**3330**	ug/L	100	100		08/08/13 19:24	71-43-2	
Ethylbenzene	**3210**	ug/L	100	100		08/08/13 19:24	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	100	100		08/08/13 19:24	1634-04-4	
Tetrachloroethene	ND	ug/L	100	100		08/08/13 19:24	127-18-4	
Toluene	**37100**	ug/L	500	500		08/10/13 04:23	108-88-3	
Trichloroethene	ND	ug/L	40.0	100		08/08/13 19:24	79-01-6	
Xylene (Total)	**26700**	ug/L	300	100		08/08/13 19:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	75-125	100		08/08/13 19:24	17060-07-0	
Toluene-d8 (S)	99	%	75-125	100		08/08/13 19:24	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125	100		08/08/13 19:24	460-00-4	

Sample: GEI-3-W-080213 **Lab ID: 10237814003** Collected: 08/02/13 13:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**188**	mg/L	20.8	50	08/09/13 07:22	08/13/13 15:39		N2
DRO by AK 102 Silica Gel Clean	**141**	mg/L	8.3	20	08/09/13 07:22	08/20/13 10:32		N2
Residual Range Organics AK103	**5.2**	mg/L	1.0	1	08/09/13 07:22	08/12/13 14:52		N2
Surrogates								
o-Terphenyl (S)	160	%	50-150	1	08/09/13 07:22	08/12/13 14:52	84-15-1	S5
o-Terphenyl (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 10:32	84-15-1	S4
n-Triacontane (S)	86	%	50-150	1	08/09/13 07:22	08/12/13 14:52	638-68-6	
n-Triacontane (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 10:32		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**8620**	ug/L	1000	10		08/13/13 19:59		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	110	%	60-120	10		08/13/13 19:59	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	5		08/12/13 20:07	71-43-2	
Ethylbenzene	**63.7**	ug/L	5.0	5		08/12/13 20:07	100-41-4	
Toluene	**144**	ug/L	5.0	5		08/12/13 20:07	108-88-3	M1
Xylene (Total)	**2100**	ug/L	15.0	5		08/12/13 20:07	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	75-125	5		08/12/13 20:07	17060-07-0	
Toluene-d8 (S)	102	%	75-125	5		08/12/13 20:07	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-125	5		08/12/13 20:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: GEI-4-W-080213 **Lab ID: 10237814004** Collected: 08/02/13 10:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**159**	mg/L	20.8	50	08/09/13 07:22	08/13/13 16:24		N2
DRO by AK 102 Silica Gel Clean	**122**	mg/L	8.3	20	08/09/13 07:22	08/20/13 10:54		N2
Residual Range Organics AK103	**1.6**	mg/L	1.0	1	08/09/13 07:22	08/12/13 17:28		N2
Surrogates								
o-Terphenyl (S)	84	%	50-150	1	08/09/13 07:22	08/12/13 17:28	84-15-1	
o-Terphenyl (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 10:54	84-15-1	S4
n-Triacontane (S)	95	%	50-150	1	08/09/13 07:22	08/12/13 17:28	638-68-6	
n-Triacontane (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 10:54		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**1290**	ug/L	100	1		08/13/13 18:19		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	111	%	60-120	1		08/13/13 18:19	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**7.7**	ug/L	1.0	1		08/12/13 20:39	71-43-2	
Ethylbenzene	**42.0**	ug/L	1.0	1		08/12/13 20:39	100-41-4	
Toluene	**2.9**	ug/L	1.0	1		08/12/13 20:39	108-88-3	
Xylene (Total)	**238**	ug/L	3.0	1		08/12/13 20:39	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		08/12/13 20:39	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		08/12/13 20:39	2037-26-5	
4-Bromofluorobenzene (S)	118	%	75-125	1		08/12/13 20:39	460-00-4	

Sample: GEI-6-W-080213 **Lab ID: 10237814005** Collected: 08/02/13 14:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**4.1**	mg/L	0.40	1	08/09/13 07:22	08/12/13 20:48		N2
DRO by AK 102 Silica Gel Clean	**0.61**	mg/L	0.40	1	08/09/13 07:22	08/20/13 13:08		N2
Residual Range Organics AK103	**1.7**	mg/L	1.0	1	08/09/13 07:22	08/12/13 20:48		N2
Surrogates								
o-Terphenyl (S) SG	84	%	50-150	1	08/09/13 07:22	08/20/13 13:08	84-15-1	
n-Triacontane (S) SG	93	%	50-150	1	08/09/13 07:22	08/20/13 13:08		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/09/13 12:52		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%	60-120	1		08/09/13 12:52	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 20:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/12/13 20:55	100-41-4	
Toluene	ND	ug/L	1.0	1		08/12/13 20:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/12/13 20:55	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: GEI-6-W-080213 **Lab ID: 10237814005** Collected: 08/02/13 14:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	75-125	1		08/12/13 20:55	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		08/12/13 20:55	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125	1		08/12/13 20:55	460-00-4	

Sample: GEI-7-W-080213 **Lab ID: 10237814006** Collected: 08/02/13 09:20 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**2.9**	ug/L	0.15	10	08/16/13 12:59	08/16/13 21:43	106-93-4	
Surrogates								
4-Bromofluorobenzene (S)	0	%	70-130	10	08/16/13 12:59	08/16/13 21:43	460-00-4	S4
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**175**	mg/L	20.0	50	08/09/13 07:22	08/13/13 16:02		N2
DRO by AK 102 Silica Gel Clean	**166**	mg/L	20.0	50	08/09/13 07:22	08/20/13 09:47		N2
Residual Range Organics AK103	**2.7**	mg/L	1.0	1	08/09/13 07:22	08/12/13 16:21		N2
Surrogates								
o-Terphenyl (S)	104	%	50-150	1	08/09/13 07:22	08/12/13 16:21	84-15-1	
o-Terphenyl (S) SG	0	%	50-150	50	08/09/13 07:22	08/20/13 09:47	84-15-1	S4
n-Triacontane (S)	94	%	50-150	1	08/09/13 07:22	08/12/13 16:21	638-68-6	
n-Triacontane (S) SG	0	%	50-150	50	08/09/13 07:22	08/20/13 09:47		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**16400**	ug/L	2000	20		08/13/13 16:38		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	110	%	60-120	20		08/13/13 16:38	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	**186**	ug/L	10.0	10		08/15/13 08:21	71-43-2	
Ethylbenzene	**200**	ug/L	10.0	10		08/15/13 08:21	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		08/15/13 08:21	1634-04-4	
Tetrachloroethene	**18.8**	ug/L	10.0	10		08/15/13 08:21	127-18-4	
Toluene	**1530**	ug/L	10.0	10		08/15/13 08:21	108-88-3	
Trichloroethene	ND	ug/L	4.0	10		08/15/13 08:21	79-01-6	
Xylene (Total)	**2400**	ug/L	30.0	10		08/15/13 08:21	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	75-125	10		08/15/13 08:21	17060-07-0	
Toluene-d8 (S)	99	%	75-125	10		08/15/13 08:21	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125	10		08/15/13 08:21	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: GEI-8-W-080213 **Lab ID: 10237814007** Collected: 08/02/13 08:50 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**1740**	mg/L	208	500	08/09/13 07:22	08/13/13 17:31		N2
DRO by AK 102 Silica Gel Clean	**1330**	mg/L	125	300	08/09/13 07:22	08/20/13 09:02		N2
Residual Range Organics AK103	**3.9**	mg/L	1.0	1	08/09/13 07:22	08/12/13 14:07		N2
Surrogates								
o-Terphenyl (S)	123	%	50-150	1	08/09/13 07:22	08/12/13 14:07	84-15-1	
o-Terphenyl (S) SG	0	%	50-150	300	08/09/13 07:22	08/20/13 09:02	84-15-1	S4
n-Triacontane (S)	50	%	50-150	1	08/09/13 07:22	08/12/13 14:07	638-68-6	
n-Triacontane (S) SG	0	%	50-150	300	08/09/13 07:22	08/20/13 09:02		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**11000**	ug/L	1000	10		08/09/13 19:43		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	94	%	60-120	10		08/09/13 19:43	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	5		08/13/13 00:04	71-43-2	
Ethylbenzene	**111**	ug/L	5.0	5		08/13/13 00:04	100-41-4	
Toluene	**49.5**	ug/L	5.0	5		08/13/13 00:04	108-88-3	
Xylene (Total)	**2160**	ug/L	15.0	5		08/13/13 00:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	75-125	5		08/13/13 00:04	17060-07-0	
Toluene-d8 (S)	100	%	75-125	5		08/13/13 00:04	2037-26-5	
4-Bromofluorobenzene (S)	122	%	75-125	5		08/13/13 00:04	460-00-4	

Sample: GEI-9-W-080213 **Lab ID: 10237814008** Collected: 08/02/13 10:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**124**	mg/L	20.8	50	08/09/13 07:22	08/13/13 15:17		N2
DRO by AK 102 Silica Gel Clean	**84.9**	mg/L	8.3	20	08/09/13 07:22	08/20/13 10:10		N2
Residual Range Organics AK103	**4.3**	mg/L	1.0	1	08/09/13 07:22	08/12/13 14:29		N2
Surrogates								
o-Terphenyl (S)	110	%	50-150	1	08/09/13 07:22	08/12/13 14:29	84-15-1	
o-Terphenyl (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 10:10	84-15-1	S4
n-Triacontane (S)	87	%	50-150	1	08/09/13 07:22	08/12/13 14:29	638-68-6	
n-Triacontane (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 10:10		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**419**	ug/L	100	1		08/09/13 15:21		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	88	%	60-120	1		08/09/13 15:21	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 21:12	71-43-2	
Ethylbenzene	**3.3**	ug/L	1.0	1		08/12/13 21:12	100-41-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: GEI-9-W-080213 **Lab ID: 10237814008** Collected: 08/02/13 10:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		08/12/13 21:12	108-88-3	
Xylene (Total)	**15.4**	ug/L	3.0	1		08/12/13 21:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	75-125	1		08/12/13 21:12	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		08/12/13 21:12	2037-26-5	
4-Bromofluorobenzene (S)	125	%	75-125	1		08/12/13 21:12	460-00-4	

Sample: GEI-10-W-080213 **Lab ID: 10237814009** Collected: 08/02/13 08:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**59.1**	mg/L	8.3	20	08/09/13 07:22	08/13/13 14:10		N2
DRO by AK 102 Silica Gel Clean	**55.5**	mg/L	4.2	10	08/09/13 07:22	08/20/13 12:01		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/09/13 07:22	08/12/13 15:36		N2
Surrogates								
o-Terphenyl (S)	70	%	50-150	1	08/09/13 07:22	08/12/13 15:36	84-15-1	
o-Terphenyl (S) SG	84	%	50-150	10	08/09/13 07:22	08/20/13 12:01	84-15-1	
n-Triacontane (S)	89	%	50-150	1	08/09/13 07:22	08/12/13 15:36	638-68-6	
n-Triacontane (S) SG	99	%	50-150	10	08/09/13 07:22	08/20/13 12:01		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**151**	ug/L	100	1		08/13/13 18:39		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	107	%	60-120	1		08/13/13 18:39	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/12/13 21:28	71-43-2	
Ethylbenzene	**1.9**	ug/L	1.0	1		08/12/13 21:28	100-41-4	
Toluene	ND	ug/L	1.0	1		08/12/13 21:28	108-88-3	
Xylene (Total)	**7.8**	ug/L	3.0	1		08/12/13 21:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		08/12/13 21:28	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		08/12/13 21:28	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-125	1		08/12/13 21:28	460-00-4	

Sample: MW-1-W-080513 **Lab ID: 10237814010** Collected: 08/05/13 12:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	ND	mg/L	0.43	1	08/09/13 07:22	08/12/13 17:50		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/09/13 07:22	08/12/13 17:50		N2
Surrogates								
o-Terphenyl (S)	79	%	50-150	1	08/09/13 07:22	08/12/13 17:50	84-15-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: MW-1-W-080513 **Lab ID: 10237814010** Collected: 08/05/13 12:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
Surrogates								
n-Triacontane (S)	96	%	50-150	1	08/09/13 07:22	08/12/13 17:50	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/09/13 11:51		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%	50-150	1		08/09/13 11:51	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/09/13 17:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/09/13 17:09	100-41-4	
Toluene	ND	ug/L	1.0	1		08/09/13 17:09	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/09/13 17:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	75-125	1		08/09/13 17:09	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		08/09/13 17:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/09/13 17:09	460-00-4	

Sample: MW-2-W-080513 **Lab ID: 10237814011** Collected: 08/05/13 11:15 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	ND	mg/L	0.45	1	08/09/13 07:22	08/12/13 18:57		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/09/13 07:22	08/12/13 18:57		N2
Surrogates								
o-Terphenyl (S)	74	%	50-150	1	08/09/13 07:22	08/12/13 18:57	84-15-1	
n-Triacontane (S)	92	%	50-150	1	08/09/13 07:22	08/12/13 18:57	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/09/13 17:22		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%	60-120	1		08/09/13 17:22	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/08/13 17:11	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/08/13 17:11	100-41-4	
Toluene	ND	ug/L	1.0	1		08/08/13 17:11	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/08/13 17:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	75-125	1		08/08/13 17:11	17060-07-0	
Toluene-d8 (S)	99	%	75-125	1		08/08/13 17:11	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/08/13 17:11	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: MW-3-W-080513 **Lab ID: 10237814012** Collected: 08/05/13 12:45 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**3.5**	mg/L	0.48	1	08/09/13 07:22	08/12/13 15:59		N2
DRO by AK 102 Silica Gel Clean	**1.3**	mg/L	0.48	1	08/09/13 07:22	08/20/13 13:31		N2
Residual Range Organics AK103	ND	mg/L	1.2	1	08/09/13 07:22	08/12/13 15:59		N2
Surrogates								
o-Terphenyl (S) SG	79	%	50-150	1	08/09/13 07:22	08/20/13 13:31	84-15-1	
n-Triacontane (S) SG	93	%	50-150	1	08/09/13 07:22	08/20/13 13:31		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**2110**	ug/L	200	2		08/13/13 19:19		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	107	%	60-120	2		08/13/13 19:19	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	**298**	ug/L	2.0	2		08/15/13 08:04	71-43-2	
Ethylbenzene	**43.2**	ug/L	2.0	2		08/15/13 08:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		08/15/13 08:04	1634-04-4	
Tetrachloroethene	ND	ug/L	2.0	2		08/15/13 08:04	127-18-4	
Toluene	**8.2**	ug/L	2.0	2		08/15/13 08:04	108-88-3	
Trichloroethene	ND	ug/L	0.80	2		08/15/13 08:04	79-01-6	
Xylene (Total)	**292**	ug/L	6.0	2		08/15/13 08:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	75-125	2		08/15/13 08:04	17060-07-0	
Toluene-d8 (S)	100	%	75-125	2		08/15/13 08:04	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125	2		08/15/13 08:04	460-00-4	

Sample: MW-4-W-080513 **Lab ID: 10237814013** Collected: 08/05/13 13:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	ND	mg/L	0.45	1	08/09/13 07:22	08/12/13 19:19		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/09/13 07:22	08/12/13 19:19		N2
Surrogates								
o-Terphenyl (S)	74	%	50-150	1	08/09/13 07:22	08/12/13 19:19	84-15-1	
n-Triacontane (S)	88	%	50-150	1	08/09/13 07:22	08/12/13 19:19	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/13/13 12:53		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	96	%	60-120	1		08/13/13 12:53	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/08/13 17:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/08/13 17:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/08/13 17:47	1634-04-4	
Tetrachloroethene	ND	ug/L	1.0	1		08/08/13 17:47	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: MW-4-W-080513 **Lab ID: 10237814013** Collected: 08/05/13 13:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		08/08/13 17:47	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		08/08/13 17:47	79-01-6	
Xylene (Total)	ND	ug/L	3.0	1		08/08/13 17:47	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	75-125	1		08/08/13 17:47	17060-07-0	
Toluene-d8 (S)	98	%	75-125	1		08/08/13 17:47	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125	1		08/08/13 17:47	460-00-4	

Sample: MW-5-W-080213 **Lab ID: 10237814014** Collected: 08/02/13 16:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**146**	mg/L	20.8	50	08/09/13 07:22	08/13/13 16:46		N2
DRO by AK 102 Silica Gel Clean	**119**	mg/L	8.3	20	08/09/13 07:22	08/20/13 11:17		N2
Residual Range Organics AK103	**1.6**	mg/L	1.0	1	08/09/13 07:22	08/12/13 19:42		N2
Surrogates								
o-Terphenyl (S)	190	%	50-150	1	08/09/13 07:22	08/12/13 19:42	84-15-1	S5
o-Terphenyl (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 11:17	84-15-1	S4
n-Triacontane (S)	93	%	50-150	1	08/09/13 07:22	08/12/13 19:42	638-68-6	
n-Triacontane (S) SG	0	%	50-150	20	08/09/13 07:22	08/20/13 11:17		S4
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**8610**	ug/L	500	5		08/09/13 19:23		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	101	%	60-120	5		08/09/13 19:23	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	**84.7**	ug/L	1.0	1		08/08/13 16:22	71-43-2	
Ethylbenzene	**179**	ug/L	1.0	1		08/08/13 16:22	100-41-4	
Toluene	**764**	ug/L	10.0	10		08/14/13 15:20	108-88-3	
Xylene (Total)	**1860**	ug/L	30.0	10		08/14/13 15:20	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	75-125	1		08/08/13 16:22	17060-07-0	
Toluene-d8 (S)	96	%	75-125	1		08/08/13 16:22	2037-26-5	
4-Bromofluorobenzene (S)	111	%	75-125	1		08/08/13 16:22	460-00-4	

Sample: MW-6-W-080213 **Lab ID: 10237814015** Collected: 08/02/13 16:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**0.55**	mg/L	0.45	1	08/09/13 07:22	08/12/13 20:04		N2
DRO by AK 102 Silica Gel Clean	ND	mg/L	0.45	1	08/09/13 07:22	08/20/13 13:53		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/09/13 07:22	08/12/13 20:04		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: MW-6-W-080213 **Lab ID: 10237814015** Collected: 08/02/13 16:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
Surrogates								
o-Terphenyl (S) SG	69	%	50-150	1	08/09/13 07:22	08/20/13 13:53	84-15-1	
n-Triacontane (S) SG	84	%	50-150	1	08/09/13 07:22	08/20/13 13:53		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/09/13 13:12		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	94	%	60-120	1		08/09/13 13:12	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/14/13 21:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/14/13 21:33	100-41-4	
Toluene	ND	ug/L	1.0	1		08/14/13 21:33	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/14/13 21:33	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	75-125	1		08/14/13 21:33	17060-07-0	
Toluene-d8 (S)	102	%	75-125	1		08/14/13 21:33	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125	1		08/14/13 21:33	460-00-4	

Sample: MW-14-W-080513 **Lab ID: 10237814016** Collected: 08/05/13 10:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**0.60**	mg/L	0.40	1	08/09/13 07:22	08/12/13 20:26		N2
DRO by AK 102 Silica Gel Clean	ND	mg/L	0.40	1	08/09/13 07:22	08/20/13 14:15		N2
Residual Range Organics AK103	ND	mg/L	1.0	1	08/09/13 07:22	08/12/13 20:26		N2
Surrogates								
o-Terphenyl (S) SG	76	%	50-150	1	08/09/13 07:22	08/20/13 14:15	84-15-1	
n-Triacontane (S) SG	96	%	50-150	1	08/09/13 07:22	08/20/13 14:15		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**226**	ug/L	100	1		08/13/13 13:53		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	102	%	60-120	1		08/13/13 13:53	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	**10.5**	ug/L	1.0	1		08/08/13 18:12	71-43-2	
Ethylbenzene	**3.1**	ug/L	1.0	1		08/08/13 18:12	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		08/08/13 18:12	1634-04-4	
Tetrachloroethene	ND	ug/L	1.0	1		08/08/13 18:12	127-18-4	
Toluene	ND	ug/L	1.0	1		08/08/13 18:12	108-88-3	
Trichloroethene	ND	ug/L	0.40	1		08/08/13 18:12	79-01-6	
Xylene (Total)	**7.4**	ug/L	3.0	1		08/08/13 18:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	75-125	1		08/08/13 18:12	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: MW-14-W-080513 **Lab ID: 10237814016** Collected: 08/05/13 10:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 VOC	Analytical Method: EPA 8260							
Surrogates								
Toluene-d8 (S)	98	%	75-125	1		08/08/13 18:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/08/13 18:12	460-00-4	

Sample: MW-15-W-080513 **Lab ID: 10237814017** Collected: 08/05/13 10:30 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	**68.5**	mg/L	10.0	20	08/09/13 07:22	08/13/13 14:55		N2
DRO by AK 102 Silica Gel Clean	**63.7**	mg/L	5.0	10	08/09/13 07:22	08/20/13 11:39		N2
Residual Range Organics AK103	ND	mg/L	1.2	1	08/09/13 07:22	08/12/13 21:11		N2
Surrogates								
o-Terphenyl (S)	86	%	50-150	1	08/09/13 07:22	08/12/13 21:11	84-15-1	
o-Terphenyl (S) SG	114	%	50-150	10	08/09/13 07:22	08/20/13 11:39	84-15-1	
n-Triacontane (S)	85	%	50-150	1	08/09/13 07:22	08/12/13 21:11	638-68-6	
n-Triacontane (S) SG	103	%	50-150	10	08/09/13 07:22	08/20/13 11:39		
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	**73300**	ug/L	5000	50		08/10/13 16:50		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	100	%	60-120	50		08/10/13 16:50	98-08-8	
8260 VOC	Analytical Method: EPA 8260							
Benzene	**1520**	ug/L	50.0	50		08/13/13 23:32	71-43-2	
Ethylbenzene	**1180**	ug/L	50.0	50		08/13/13 23:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		08/13/13 23:32	1634-04-4	
Tetrachloroethene	ND	ug/L	50.0	50		08/13/13 23:32	127-18-4	
Toluene	**6730**	ug/L	50.0	50		08/13/13 23:32	108-88-3	
Trichloroethene	ND	ug/L	20.0	50		08/13/13 23:32	79-01-6	
Xylene (Total)	**8480**	ug/L	150	50		08/13/13 23:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	50		08/13/13 23:32	17060-07-0	
Toluene-d8 (S)	100	%	75-125	50		08/13/13 23:32	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-125	50		08/13/13 23:32	460-00-4	

Sample: BD-2-W-080513 **Lab ID: 10237814018** Collected: 08/05/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
DRO by AK 102	ND	mg/L	0.43	1	08/09/13 07:22	08/12/13 21:33		N2
Residual Range Organics AK103	ND	mg/L	1.1	1	08/09/13 07:22	08/12/13 21:33		N2
Surrogates								
o-Terphenyl (S)	74	%	50-150	1	08/09/13 07:22	08/12/13 21:33	84-15-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Chevron# 306456
Pace Project No.: 10237814

Sample: BD-2-W-080513 **Lab ID: 10237814018** Collected: 08/05/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
DRO and RRO by AK102/103	Analytical Method: Alaska 102/103 Preparation Method: EPA 3510							
Surrogates								
n-Triacontane (S)	89	%	50-150	1	08/09/13 07:22	08/12/13 21:33	638-68-6	
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/10/13 17:51		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	99	%	60-120	1		08/10/13 17:51	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/08/13 16:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/08/13 16:47	100-41-4	
Toluene	ND	ug/L	1.0	1		08/08/13 16:47	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/08/13 16:47	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	75-125	1		08/08/13 16:47	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		08/08/13 16:47	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/08/13 16:47	460-00-4	

Sample: Trip Blank **Lab ID: 10237814019** Collected: 08/02/13 00:00 Received: 08/07/13 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
AK101 GCV	Analytical Method: Alaska 101							
AK101 Gasoline Range Organics	ND	ug/L	100	1		08/13/13 12:13		N2
Surrogates								
a,a,a-Trifluorotoluene (S)	96	%	60-120	1		08/13/13 12:13	98-08-8	
8260 MSV UST	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/08/13 11:56	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/08/13 11:56	100-41-4	
Toluene	ND	ug/L	1.0	1		08/08/13 11:56	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		08/08/13 11:56	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	75-125	1		08/08/13 11:56	17060-07-0	
Toluene-d8 (S)	100	%	75-125	1		08/08/13 11:56	2037-26-5	
4-Bromofluorobenzene (S)	98	%	75-125	1		08/08/13 11:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: GCV/11179 Analysis Method: Alaska 101
QC Batch Method: Alaska 101 Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237814002, 10237814005, 10237814007, 10237814008, 10237814010, 10237814011, 10237814014, 10237814015

METHOD BLANK: 1497245 Matrix: Water
Associated Lab Samples: 10237814002, 10237814005, 10237814007, 10237814008, 10237814010, 10237814011, 10237814014, 10237814015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/09/13 11:31	N2
a,a,a-Trifluorotoluene (S)	%	95	60-120	08/09/13 11:31	

LABORATORY CONTROL SAMPLE & LCSD: 1497246 1497247

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	1140	1180	114	118	60-120	3	20	N2
a,a,a-Trifluorotoluene (S)	%				105	103	60-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497248 1497249

Parameter	Units	10237814010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
AK101 Gasoline Range Organics	ug/L	ND	1000	1000	1110	1110	108	108	70-142	.08	30	N2
a,a,a-Trifluorotoluene (S)	%						109	109	60-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: GCV/11180 Analysis Method: Alaska 101
QC Batch Method: Alaska 101 Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237814017, 10237814018

METHOD BLANK: 1497254 Matrix: Water
Associated Lab Samples: 10237814017, 10237814018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/10/13 12:50	N2
a,a,a-Trifluorotoluene (S)	%	96	60-120	08/10/13 12:50	

LABORATORY CONTROL SAMPLE & LCSD: 1497255 1497256

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	1000	1070	100	107	60-120	7	20	N2
a,a,a-Trifluorotoluene (S)	%				106	106	60-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1497257 1497258

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
AK101 Gasoline Range Organics	ug/L	67900	20000	20000	96900	100000	145	160	70-142	3	30	E,M1, N2
a,a,a-Trifluorotoluene (S)	%						110	114	60-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: GCV/11193 Analysis Method: Alaska 101
QC Batch Method: Alaska 101 Analysis Description: AK101W GCV Water
Associated Lab Samples: 10237814001, 10237814003, 10237814004, 10237814006, 10237814009, 10237814012, 10237814013, 10237814016, 10237814019

METHOD BLANK: 1499855 Matrix: Water
Associated Lab Samples: 10237814001, 10237814003, 10237814004, 10237814006, 10237814009, 10237814012, 10237814013, 10237814016, 10237814019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
AK101 Gasoline Range Organics	ug/L	ND	100	08/13/13 11:29	N2
a,a,a-Trifluorotoluene (S)	%	95	60-120	08/13/13 11:29	

LABORATORY CONTROL SAMPLE & LCSD: 1499856 1499857

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
AK101 Gasoline Range Organics	ug/L	1000	849	890	85	89	60-120	5	20	N2
a,a,a-Trifluorotoluene (S)	%				102	112	60-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1499858 1499859

Parameter	Units	10237814006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
AK101 Gasoline Range Organics	ug/L	16400	20000	20000	39800	42500	117	130	70-142	7	30	N2
a,a,a-Trifluorotoluene (S)	%						118	121	60-120			S0

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24542 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10237814002, 10237814013, 10237814016

METHOD BLANK: 1496979 Matrix: Water
Associated Lab Samples: 10237814002, 10237814013, 10237814016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/08/13 11:19	
Ethylbenzene	ug/L	ND	1.0	08/08/13 11:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/08/13 11:19	
Tetrachloroethene	ug/L	ND	1.0	08/08/13 11:19	
Toluene	ug/L	ND	1.0	08/08/13 11:19	
Trichloroethene	ug/L	ND	0.40	08/08/13 11:19	
Xylene (Total)	ug/L	ND	3.0	08/08/13 11:19	
1,2-Dichloroethane-d4 (S)	%	100	75-125	08/08/13 11:19	
4-Bromofluorobenzene (S)	%	100	75-125	08/08/13 11:19	
Toluene-d8 (S)	%	98	75-125	08/08/13 11:19	

LABORATORY CONTROL SAMPLE: 1496980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.6	98	75-125	
Ethylbenzene	ug/L	20	18.8	94	75-125	
Methyl-tert-butyl ether	ug/L	20	19.1	96	74-126	
Tetrachloroethene	ug/L	20	18.5	93	75-125	
Toluene	ug/L	20	18.8	94	75-125	
Trichloroethene	ug/L	20	19.8	99	75-125	
Xylene (Total)	ug/L	60	57.5	96	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			96	75-125	

MATRIX SPIKE SAMPLE: 1496981

Parameter	Units	1223615005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	20	23.2	115	70-135	
Ethylbenzene	ug/L	ND	20	22.5	112	75-125	
Methyl-tert-butyl ether	ug/L	ND	20	21.6	108	70-132	
Tetrachloroethene	ug/L	ND	20	23.7	118	75-130	
Toluene	ug/L	ND	20	22.1	110	75-125	
Trichloroethene	ug/L	ND	20	25.0	125	75-129	
Xylene (Total)	ug/L	ND	60	69.8	116	75-125	
1,2-Dichloroethane-d4 (S)	%				93	75-125	
4-Bromofluorobenzene (S)	%				96	75-125	
Toluene-d8 (S)	%				97	75-125	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

SAMPLE DUPLICATE: 1496982

Parameter	Units	1223615007 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	98	95	4		
4-Bromofluorobenzene (S)	%	98	99	1		
Toluene-d8 (S)	%	98	99	.4		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24596 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10237814017

METHOD BLANK: 1501096 Matrix: Water
Associated Lab Samples: 10237814017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/13/13 19:07	
Ethylbenzene	ug/L	ND	1.0	08/13/13 19:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/13/13 19:07	
Tetrachloroethene	ug/L	ND	1.0	08/13/13 19:07	
Toluene	ug/L	ND	1.0	08/13/13 19:07	
Trichloroethene	ug/L	ND	0.40	08/13/13 19:07	
Xylene (Total)	ug/L	ND	3.0	08/13/13 19:07	
1,2-Dichloroethane-d4 (S)	%	101	75-125	08/13/13 19:07	
4-Bromofluorobenzene (S)	%	103	75-125	08/13/13 19:07	
Toluene-d8 (S)	%	102	75-125	08/13/13 19:07	

LABORATORY CONTROL SAMPLE: 1501097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	94	75-125	
Ethylbenzene	ug/L	20	18.2	91	75-125	
Methyl-tert-butyl ether	ug/L	20	19.8	99	74-126	
Tetrachloroethene	ug/L	20	17.9	90	75-125	
Toluene	ug/L	20	18.8	94	75-125	
Trichloroethene	ug/L	20	18.6	93	75-125	
Xylene (Total)	ug/L	60	57.1	95	75-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			103	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501098 1501099

Parameter	Units	10238901001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	10.1	200	200	192	200	91	95	70-135	4	30	
Ethylbenzene	ug/L	43.3	200	200	220	230	89	94	75-125	4	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	189	182	94	91	70-132	4	30	
Tetrachloroethene	ug/L	ND	200	200	176	184	88	92	75-130	5	30	
Toluene	ug/L	ND	200	200	185	195	92	97	75-125	5	30	
Trichloroethene	ug/L	ND	200	200	181	193	91	97	75-129	6	30	
Xylene (Total)	ug/L	59.0	600	600	615	639	93	97	75-125	4	30	
1,2-Dichloroethane-d4 (S)	%						102	103	75-125			
4-Bromofluorobenzene (S)	%						103	105	75-125			
Toluene-d8 (S)	%						103	103	75-125			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24601 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 465 W
Associated Lab Samples: 10237814006, 10237814012

METHOD BLANK: 1501482 Matrix: Water
Associated Lab Samples: 10237814006, 10237814012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/15/13 03:09	
Ethylbenzene	ug/L	ND	1.0	08/15/13 03:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	08/15/13 03:09	
Tetrachloroethene	ug/L	ND	1.0	08/15/13 03:09	
Toluene	ug/L	ND	1.0	08/15/13 03:09	
Trichloroethene	ug/L	ND	0.40	08/15/13 03:09	
Xylene (Total)	ug/L	ND	3.0	08/15/13 03:09	
1,2-Dichloroethane-d4 (S)	%	102	75-125	08/15/13 03:09	
4-Bromofluorobenzene (S)	%	101	75-125	08/15/13 03:09	
Toluene-d8 (S)	%	100	75-125	08/15/13 03:09	

LABORATORY CONTROL SAMPLE: 1501483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.4	87	75-125	
Ethylbenzene	ug/L	20	16.9	85	75-125	
Methyl-tert-butyl ether	ug/L	20	18.7	93	74-126	
Tetrachloroethene	ug/L	20	17.1	85	75-125	
Toluene	ug/L	20	17.6	88	75-125	
Trichloroethene	ug/L	20	17.8	89	75-125	
Xylene (Total)	ug/L	60	53.3	89	75-125	
1,2-Dichloroethane-d4 (S)	%			103	75-125	
4-Bromofluorobenzene (S)	%			102	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501484 1501485

Parameter	Units	10238211005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	11.0	20	20	30.7	29.9	99	95	70-135	3	30	
Ethylbenzene	ug/L	44.0	20	20	63.5	63.6	98	98	75-125	.2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.2	20.2	98	99	70-132	.3	30	
Tetrachloroethene	ug/L	ND	20	20	19.2	18.8	96	94	75-130	2	30	
Toluene	ug/L	1.4	20	20	20.9	20.3	98	95	75-125	3	30	
Trichloroethene	ug/L	ND	20	20	20.1	20.0	100	99	75-129	.6	30	
Xylene (Total)	ug/L	63.7	60	60	123	124	100	100	75-125	.3	30	
1,2-Dichloroethane-d4 (S)	%						102	103	75-125			
4-Bromofluorobenzene (S)	%						101	100	75-125			
Toluene-d8 (S)	%						102	101	75-125			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24543 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237814001, 10237814011, 10237814014, 10237814018, 10237814019

METHOD BLANK: 1496988 Matrix: Water
Associated Lab Samples: 10237814001, 10237814011, 10237814014, 10237814018, 10237814019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/08/13 11:31	
Ethylbenzene	ug/L	ND	1.0	08/08/13 11:31	
Toluene	ug/L	ND	1.0	08/08/13 11:31	
Xylene (Total)	ug/L	ND	3.0	08/08/13 11:31	
1,2-Dichloroethane-d4 (S)	%	98	75-125	08/08/13 11:31	
4-Bromofluorobenzene (S)	%	98	75-125	08/08/13 11:31	
Toluene-d8 (S)	%	100	75-125	08/08/13 11:31	

LABORATORY CONTROL SAMPLE: 1496989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.7	98	75-125	
Ethylbenzene	ug/L	20	18.8	94	75-125	
Toluene	ug/L	20	18.8	94	75-125	
Xylene (Total)	ug/L	60	58.2	97	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1496990 1496991

Parameter	Units	10237729004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	1000	1000	1010	1030	101	102	70-135	2	30	
Ethylbenzene	ug/L	2170	1000	1000	3290	3360	112	119	75-125	2	30	
Toluene	ug/L	650	1000	1000	1680	1700	103	105	75-125	2	30	
Xylene (Total)	ug/L	14500	3000	3000	18100	18500	121	135	75-125	2	30	MS
1,2-Dichloroethane-d4 (S)	%						93	95	75-125			
4-Bromofluorobenzene (S)	%						97	96	75-125			
Toluene-d8 (S)	%						99	99	75-125			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24557 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237814010

METHOD BLANK: 1498600 Matrix: Water
Associated Lab Samples: 10237814010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/09/13 15:33	
Ethylbenzene	ug/L	ND	1.0	08/09/13 15:33	
Toluene	ug/L	ND	1.0	08/09/13 15:33	
Xylene (Total)	ug/L	ND	3.0	08/09/13 15:33	
1,2-Dichloroethane-d4 (S)	%	96	75-125	08/09/13 15:33	
4-Bromofluorobenzene (S)	%	97	75-125	08/09/13 15:33	
Toluene-d8 (S)	%	99	75-125	08/09/13 15:33	

LABORATORY CONTROL SAMPLE: 1498601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.9	99	75-125	
Ethylbenzene	ug/L	20	19.6	98	75-125	
Toluene	ug/L	20	19.5	98	75-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%			97	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			98	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498602 1498603

Parameter	Units	10237814010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	21.5	19.8	107	99	70-135	8	30	
Ethylbenzene	ug/L	ND	20	20	21.8	19.8	109	99	75-125	10	30	
Toluene	ug/L	ND	20	20	21.7	19.6	108	98	75-125	10	30	
Xylene (Total)	ug/L	ND	60	60	66.1	60.6	110	101	75-125	9	30	
1,2-Dichloroethane-d4 (S)	%						94	92	75-125			
4-Bromofluorobenzene (S)	%						97	98	75-125			
Toluene-d8 (S)	%						99	99	75-125			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24592 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237814003, 10237814004, 10237814005, 10237814007, 10237814008, 10237814009

METHOD BLANK: 1500424 Matrix: Water
Associated Lab Samples: 10237814003, 10237814004, 10237814005, 10237814007, 10237814008, 10237814009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/12/13 19:34	
Ethylbenzene	ug/L	ND	1.0	08/12/13 19:34	
Toluene	ug/L	ND	1.0	08/12/13 19:34	
Xylene (Total)	ug/L	ND	3.0	08/12/13 19:34	
1,2-Dichloroethane-d4 (S)	%	107	75-125	08/12/13 19:34	
4-Bromofluorobenzene (S)	%	103	75-125	08/12/13 19:34	
Toluene-d8 (S)	%	100	75-125	08/12/13 19:34	

LABORATORY CONTROL SAMPLE: 1500425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.3	97	75-125	
Ethylbenzene	ug/L	20	17.6	88	75-125	
Toluene	ug/L	20	18.0	90	75-125	
Xylene (Total)	ug/L	60	54.9	92	75-125	
1,2-Dichloroethane-d4 (S)	%			109	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501684 1501685

Parameter	Units	10237814003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	100	100	120	133	119	132	70-135	10	30	
Ethylbenzene	ug/L	63.7	100	100	169	185	105	121	75-125	9	30	
Toluene	ug/L	144	100	100	255	272	111	128	75-125	6	30	M1
Xylene (Total)	ug/L	2100	300	300	2390	2530	96	143	75-125	6	30	MS
1,2-Dichloroethane-d4 (S)	%						110	111	75-125			
4-Bromofluorobenzene (S)	%						101	104	75-125			
Toluene-d8 (S)	%						101	101	75-125			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: MSV/24602 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 10237814015

METHOD BLANK: 1501486 Matrix: Water
Associated Lab Samples: 10237814015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	08/14/13 18:11	
Ethylbenzene	ug/L	ND	1.0	08/14/13 18:11	
Toluene	ug/L	ND	1.0	08/14/13 18:11	
Xylene (Total)	ug/L	ND	3.0	08/14/13 18:11	
1,2-Dichloroethane-d4 (S)	%	101	75-125	08/14/13 18:11	
4-Bromofluorobenzene (S)	%	102	75-125	08/14/13 18:11	
Toluene-d8 (S)	%	101	75-125	08/14/13 18:11	

LABORATORY CONTROL SAMPLE: 1501487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.1	81	75-125	
Ethylbenzene	ug/L	20	16.3	81	75-125	
Toluene	ug/L	20	16.6	83	75-125	
Xylene (Total)	ug/L	60	49.4	82	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-125	
4-Bromofluorobenzene (S)	%			103	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE SAMPLE: 1502497

Parameter	Units	10238150001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	<1.0	20	18.8	94	70-135	
Ethylbenzene	ug/L	<1.0	20	18.0	90	75-125	
Toluene	ug/L	<1.0	20	18.6	93	75-125	
Xylene (Total)	ug/L	<3.0	60	56.4	94	75-125	
1,2-Dichloroethane-d4 (S)	%				104	75-125	
4-Bromofluorobenzene (S)	%				104	75-125	
Toluene-d8 (S)	%				101	75-125	

SAMPLE DUPLICATE: 1502498

Parameter	Units	10238150002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	<1.0	ND		30	
Ethylbenzene	ug/L	<1.0	ND		30	
Toluene	ug/L	<1.0	ND		30	
Xylene (Total)	ug/L	<3.0	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	103	1		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

SAMPLE DUPLICATE: 1502498

Parameter	Units	10238150002 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	103	102	.7		
Toluene-d8 (S)	%	100	101	1		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: OEXT/22703 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 10237814002, 10237814006

METHOD BLANK: 1504127 Matrix: Water
Associated Lab Samples: 10237814002, 10237814006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.010	08/16/13 20:01	
4-Bromofluorobenzene (S)	%	103	70-130	08/16/13 20:01	

LABORATORY CONTROL SAMPLE: 1504128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.11	0.12	109	60-140	
4-Bromofluorobenzene (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1504129 1504130

Parameter	Units	10237828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.045	.1	.1	0.15	0.16	102	111	60-140	5	20	
4-Bromofluorobenzene (S)	%						65	76	70-130			S0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: OEXT/22601 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237814001, 10237814002, 10237814003, 10237814004, 10237814005, 10237814006, 10237814007, 10237814008, 10237814009, 10237814010, 10237814011, 10237814012, 10237814013, 10237814014, 10237814015, 10237814016, 10237814017, 10237814018

METHOD BLANK: 1498326 Matrix: Water
Associated Lab Samples: 10237814001, 10237814002, 10237814003, 10237814004, 10237814005, 10237814006, 10237814007, 10237814008, 10237814009, 10237814010, 10237814011, 10237814012, 10237814013, 10237814014, 10237814015, 10237814016, 10237814017, 10237814018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102	mg/L	ND	0.40	08/12/13 13:23	N2
Residual Range Organics AK103	mg/L	ND	1.0	08/12/13 13:23	N2
n-Triacontane (S)	%	92	60-120	08/12/13 13:23	
o-Terphenyl (S)	%	83	60-120	08/12/13 13:23	

LABORATORY CONTROL SAMPLE: 1498327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102	mg/L	2	1.6	81	75-125	N2
Residual Range Organics AK103	mg/L	2	1.9	93	60-120	N2
n-Triacontane (S)	%			84	60-120	
o-Terphenyl (S)	%			89	60-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1498328 1498329

Parameter	Units	10237814010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
DRO by AK 102	mg/L	ND	2.2	2.4	1.9	2.1	74	74	50-150	8	20	N2
Residual Range Organics AK103	mg/L	ND	2.2	2.4	2.1	2.2	86	86	50-150	8	20	N2
n-Triacontane (S)	%						79	82	50-150			
o-Terphenyl (S)	%						79	78	50-150			

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(612)607-1700

QUALITY CONTROL DATA

Project: Chevron# 306456
Pace Project No.: 10237814

QC Batch: OEXT/22684 Analysis Method: Alaska 102/103
QC Batch Method: EPA 3510 Analysis Description: AK1023 GCS
Associated Lab Samples: 10237814001, 10237814002, 10237814003, 10237814004, 10237814005, 10237814006, 10237814007, 10237814008, 10237814009, 10237814012, 10237814014, 10237814015, 10237814016, 10237814017

METHOD BLANK: 1502585 Matrix: Water
Associated Lab Samples: 10237814001, 10237814002, 10237814003, 10237814004, 10237814005, 10237814006, 10237814007, 10237814008, 10237814009, 10237814012, 10237814014, 10237814015, 10237814016, 10237814017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	ND	0.40	08/20/13 08:18	N2
n-Triacontane (S) SG	%	92	60-120	08/20/13 08:18	
o-Terphenyl (S) SG	%	82	60-120	08/20/13 08:18	

LABORATORY CONTROL SAMPLE: 1502586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
DRO by AK 102 Silica Gel Clean	mg/L	2	1.7	83	75-125	N2
n-Triacontane (S) SG	%			86	60-120	
o-Terphenyl (S) SG	%			97	60-120	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(612)607-1700

QUALIFIERS

Project: Chevron# 306456
Pace Project No.: 10237814

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron# 306456
Pace Project No.: 10237814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10237814002	**GEI-2-W-080213**	EPA 8011	OEXT/22703	EPA 8011	GCSV/11895
10237814006	**GEI-7-W-080213**	EPA 8011	OEXT/22703	EPA 8011	GCSV/11895
10237814001	**GEI-1-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814001	**GEI-1-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814002	**GEI-2-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814002	**GEI-2-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814003	**GEI-3-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814003	**GEI-3-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814004	**GEI-4-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814004	**GEI-4-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814005	**GEI-6-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814005	**GEI-6-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814006	**GEI-7-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814006	**GEI-7-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814007	**GEI-8-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814007	**GEI-8-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814008	**GEI-9-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814008	**GEI-9-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814009	**GEI-10-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814009	**GEI-10-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814010	**MW-1-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814011	**MW-2-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814012	**MW-3-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814012	**MW-3-W-080513**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814013	**MW-4-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814014	**MW-5-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814014	**MW-5-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814015	**MW-6-W-080213**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814015	**MW-6-W-080213**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814016	**MW-14-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814016	**MW-14-W-080513**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814017	**MW-15-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854
10237814017	**MW-15-W-080513**	EPA 3510	OEXT/22684	Alaska 102/103	GCSV/11892
10237814018	**BD-2-W-080513**	EPA 3510	OEXT/22601	Alaska 102/103	GCSV/11854

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron# 306456
Pace Project No.: 10237814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10237814001	GEI-1-W-080213	Alaska 101	GCV/11193		
10237814002	GEI-2-W-080213	Alaska 101	GCV/11179		
10237814003	GEI-3-W-080213	Alaska 101	GCV/11193		
10237814004	GEI-4-W-080213	Alaska 101	GCV/11193		
10237814005	GEI-6-W-080213	Alaska 101	GCV/11179		
10237814006	GEI-7-W-080213	Alaska 101	GCV/11193		
10237814007	GEI-8-W-080213	Alaska 101	GCV/11179		
10237814008	GEI-9-W-080213	Alaska 101	GCV/11179		
10237814009	GEI-10-W-080213	Alaska 101	GCV/11193		
10237814010	MW-1-W-080513	Alaska 101	GCV/11179		
10237814011	MW-2-W-080513	Alaska 101	GCV/11179		
10237814012	MW-3-W-080513	Alaska 101	GCV/11193		
10237814013	MW-4-W-080513	Alaska 101	GCV/11193		
10237814014	MW-5-W-080213	Alaska 101	GCV/11179		
10237814015	MW-6-W-080213	Alaska 101	GCV/11179		
10237814016	MW-14-W-080513	Alaska 101	GCV/11193		
10237814017	MW-15-W-080513	Alaska 101	GCV/11180		
10237814018	BD-2-W-080513	Alaska 101	GCV/11180		
10237814019	Trip Blank	Alaska 101	GCV/11193		
10237814002	GEI-2-W-080213	EPA 8260	MSV/24542		
10237814006	GEI-7-W-080213	EPA 8260	MSV/24601		
10237814012	MW-3-W-080513	EPA 8260	MSV/24601		
10237814013	MW-4-W-080513	EPA 8260	MSV/24542		
10237814016	MW-14-W-080513	EPA 8260	MSV/24542		
10237814017	MW-15-W-080513	EPA 8260	MSV/24596		
10237814001	GEI-1-W-080213	EPA 8260	MSV/24543		
10237814003	GEI-3-W-080213	EPA 8260	MSV/24592		
10237814004	GEI-4-W-080213	EPA 8260	MSV/24592		
10237814005	GEI-6-W-080213	EPA 8260	MSV/24592		
10237814007	GEI-8-W-080213	EPA 8260	MSV/24592		
10237814008	GEI-9-W-080213	EPA 8260	MSV/24592		
10237814009	GEI-10-W-080213	EPA 8260	MSV/24592		
10237814010	MW-1-W-080513	EPA 8260	MSV/24557		
10237814011	MW-2-W-080513	EPA 8260	MSV/24543		
10237814014	MW-5-W-080213	EPA 8260	MSV/24543		
10237814015	MW-6-W-080213	EPA 8260	MSV/24602		
10237814018	BD-2-W-080513	EPA 8260	MSV/24543		
10237814019	Trip Blank	EPA 8260	MSV/24543		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Chevron# 306456
Pace Project No.: 10237814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

Pace Analytical
www.pacelabs.com

1156-
1159

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10237614

Page: 1 of 2

1681749

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: David.Brandon@arcadis-us.com	Attention:
Address: 1100 Olive Way STE 300 Seattle WA 98102	Copy To: michael.MacDaniel@arcadis-us.com	Company Name:
Email To: Gregory.Montgomery@arcadis-us.com	Purchase Order No.: B00455(a.0011.00001	Address:
Phone: 206-726-4713 Fax:	Project Name: FAIR Unocal	Pace Quote Reference:
Requested Due Date/TAT: STANDARD	Project Number: 306456	Pace Project Manager:
		Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: AK

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX by 8260	GRO by AK 101	DRO by AK 102	DRO SG by AK 102	PRO by AK 102	MTBE by 8260	PCE by 8260	TCE by 8260	EDB by 8011	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GEI-1-W-080213	WT	G			8/2/13	1230						X						X	X	X						001
2	GEI-2-W-080213	WT	G			8/2/13	1300						X						X	X	X	X					002
3	GEI-3-W-080213	WT	G			8/2/13	1330						X						X	X	X						003
4	GEI-4-W-080213	WT	G			8/2/13	1000						X						X	X	X						004
5	GEI-6-W-080213	WT	G			8/2/13	1400						X						X	X	X						005
6	GEI-7-W-080213	WT	G			8/2/13	920						X						X	X	X	X					006
7	GEI-8-W-080213	WT	G			8/2/13	850						X						X	X	X						007
8	GEI-9-W-080213	WT	G			8/2/13	1030						X						X	X	X						008
9	GEI-10-W-080213	WT	G			8/2/13	830						X						X	X	X						009
10	MW-1-W-080513	WT	G			8/5/13	1200						X						X	X	X						010
11	MW-2-W-080513	WT	G			8/5/13	1115						X						X	X	X						011
12	MW-3-W-080513	WT	G			8/5/13	1245						X						X	X	X						012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DRO SG = DRO with Silica Gel		8/6/13	930	KEI Pace	8-7-13	911	5.0 1.2 4.9 0.3	Y	Y	Y
LNAPL Present in all GEI wells except GEI-6										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael MacDaniel

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 08/06/13

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1023756 14

Page: 2 of 2

1681740

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: David Beaudoin	Attention:
Address: 1100 Olive Way STE 800 Seattle, WA 98102	Copy To: Michael MacDaniel	Company Name:
		Address:
Email To: Gregory.Montgomery@arcadis-us.com	Purchase Order No.: B0045506.0011.0000	Pace Quote Reference:
Phone: 206-726-4743 Fax:	Project Name: FAIR Unocal	Pace Project Manager:
Requested Due Date/TAT: Standard	Project Number: 3016456	Pace Profile #:

REGULATORY AGENCY

- NPDES
- GROUND WATER
- DRINKING WATER
- UST
- RCRA
- OTHER ______

Site Location STATE: AK

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX by 8260	GRO by AK 101	DRO by AK 102	DRO SG by AK 102	RRO by AK 102	MTBE by 8260	PCE by 8260	TCE by 8260	EDB by 8011	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-4-W-080513	WT	G			8/5/13	1330												X	X	X	X	X	X	X	X			013
2	MW-5-W-080213	WT	G			8/2/13	1600												X	X	X	X	X						014
3	MW-6-W-080213	WT	G			8/2/13	1630												X	X	X	X	X						015
4	MW-14-W-080513	WT	G			8/5/13	1000												X	X	X	X	X	X	X	X			016
5	MW-15-W-080513	WT	G			8/5/13	1030												X	X	X	X	X	X	X	X			017
6	MS-W-080513	WT	G			8/5/13	1200												X	X	X		X						010
7	MSD-W-080513	WT	G			8/5/13	1200												X	X	X		X						010
8	BD-2-W-080513	WT	G			8/5/13	—												X	X	X		X						018
9	Trip Blank	WT	—			—	—												X	X									019
10	—	WT	—			—	—																						
11	—	WT	—			—	—																						
12	—	WT	—			—	—																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
MS/MSD Taken from MW-1	[signature] / ARCADIS	8/6/13	930	KO / Pace	8-7-13	911	5.0 / 1.2 / 4.4 / 0.3	Y	Y	Y
DRO SG = DRO with Silica Gel										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael MacDaniel

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 08/06/13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.06	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Arcadis

Project #: WO#: 10237814

10237814

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: see scvr exception

Custody Seal on Cooler/Box Present? ☑ Yes (on 3/4 coolers) ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☑ Yes ☐ No

Thermom. Used: ☐ B88A912167504 ☐ 80512447 ☑ 72337080 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): see scvr exception **Cooler Temp Corrected (°C):** see scvr exception **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +.3 **Date and Initials of Person Examining Contents:** KO 8-7-13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☑ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☑ Yes	☐ No		Initial when completed: KO Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☑ Yes	☐ No	☐ N/A	14. 3/8 Trip Blanks
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (If purchased): 061113-1, 071213				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: **Date/Time:**

Comments/Resolution:

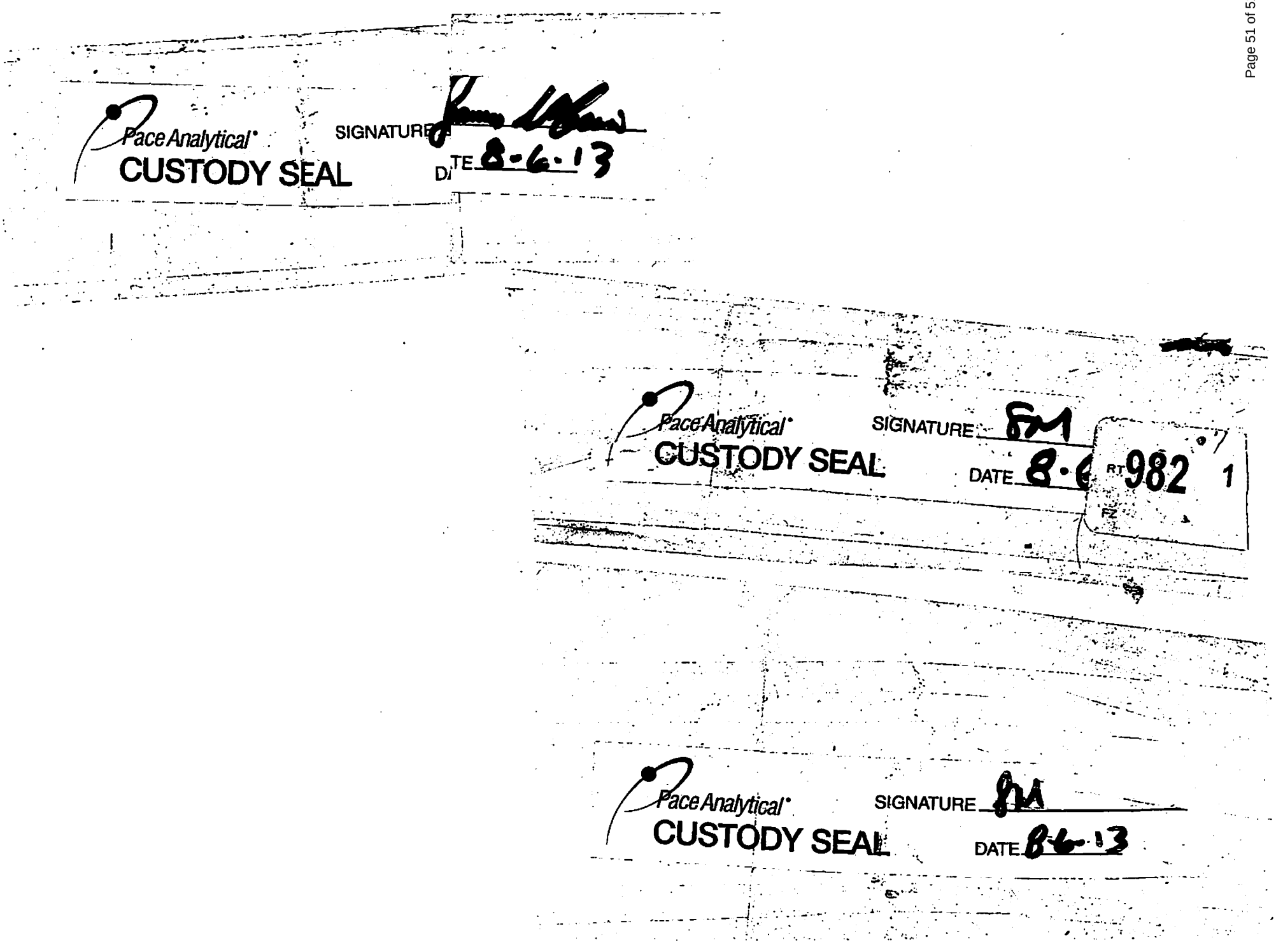
Project Manager Review: JENN GROSS **Date:** 8/7/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®	Document Name: SCUR Exceptions Form	Document Revised: 16Apr2012 Page 1 of 1
	Document No.: F-MN-L-220-Rev.00	Issuing Authority: Pace Minnesota Quality Office

Workorder #: 10237814

~~Issue #~~ Tracking #	~~Sample ID~~ cooler Temp Read	~~Container Type/#~~ Corrected Temp
79581650 2006	4.7	5.0
" " 1992	0.9	1.2
" " 2040	4.9	5.2
" " 2017	0.0	0.3


Pace Analytical
CUSTODY SEAL
SIGNATURE
DATE 8-6-13
Pace Analytical
CUSTODY SEAL
SIGNATURE
DATE 8-6
RT 982
1
Pace Analytical
CUSTODY SEAL
SIGNATURE
DATE 8-6-13

ARCADIS

Appendix C

ADEC Data Review Checklists

Laboratory Data Review Checklist

Completed by: Michael MacDaniel

Title: Field Technician Date: 9/10/13

CS Report Name: FAIR 2013 Annual Groundwater Monitoring Report – 1001430 Report Date: 8/23/13

Consultant Firm: ARCADIS U.S., Inc.

Laboratory Name: Laboratory Pace Analytical Services Report Number: 10237827

ADEC File Number: 102.38.006 ADEC RecKey Number: 1984310111601

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No □NA (Please explain.) Comments:

      NA (Samples were not transferred to another lab.)

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. Correct analyses requested?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
□Yes □ No □NA (Please explain.) Comments:

Yes

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
□Yes □ No □NA (Please explain.) Comments:

No

e. Data quality or usability affected? (Please explain.)
Comments:

No

4. Case Narrative
   a. Present and understandable?
   □Yes □ No □NA (Please explain.) Comments:

Yes

   b. Discrepancies, errors or QC failures identified by the lab?
   □Yes □ No □NA (Please explain.) Comments:

No

   c. Were all corrective actions documented?
   □Yes □ No □NA (Please explain.) Comments:

NA (No corrective action required)

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

No effect.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
   □Yes □ No □NA (Please explain.) Comments:

Yes.

   b. All applicable holding times met?
   □Yes □ No □NA (Please explain.) Comments:

Yes

c. All soils reported on a dry weight basis?
□Yes □ No □NA (Please explain.) Comments:

NA (No soil samples submitted for analysis)

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
□Yes □ No □NA (Please explain.) Comments:

Yes

e. Data quality or usability affected?
Comments:

No, data usability is not affected.

6. QC Samples
a. Method Blank
i. One method blank reported per matrix, analysis and 20 samples?
□Yes □ No □NA (Please explain.) Comments:

Yes

ii. All method blank results less than PQL?
□Yes □ No □NA (Please explain.) Comments:

Yes

iii. If above PQL, what samples are affected?
Comments:

None

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
□Yes □ No □NA (Please explain.) Comments:

NA (No affected samples)

v. Data quality or usability affected? (Please explain.)
Comments:

No

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 □NA (Please explain.) Comments:

Yes

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

□Yes □ No □NA (Please explain.) Comments:

NA (No metals/Inorganic analysis requested for submitted samples)

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

□Yes □ No □NA (Please explain.) Comments:

Yes

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

□Yes □ No □NA (Please explain.) Comments:

Yes

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

Comments:

None

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

□Yes □ No □NA (Please explain.) Comments:

NA (No affected samples)

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

Comments:

No

c. Surrogates – Organics Only

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

□Yes □ No □NA (Please explain.) Comments:

Yes

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

□Yes □ No □NA (Please explain.) Comments:

Yes

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

□Yes □ No □NA (Please explain.) Comments:

NA (No samples have failed surrogate recoveries)

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

Comments:

No

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

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

□Yes □ No □NA (Please explain.) Comments:

No, Trip blanks were included in coolers for sites 306456 and 211815.

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 □NA (Please explain.) Comments:

NA

iii. All results less than PQL?

□Yes □ No □NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

NA

e. Field Duplicate

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

□Yes □ No □NA (Please explain.) Comments:

Yes

ii. Submitted blind to lab?

□Yes □ No □NA (Please explain.) Comments:

Yes

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

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

Where R1 = Sample Concentration

R_2 = Field Duplicate Concentration

□Yes □ No □NA (Please explain.) Comments:

Yes, No. The RPD for RRO is potentially out of specification. An RPD calculation is not possible due to RRO not being detected in the duplicate sample.

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

Comments:

No, the RDP for the duplicate analytes shows a trend that is within specification.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No □NA (Please explain.) Comments:

NA (Sample collected with a disposable bailer.)

i. All results less than PQL?

□Yes □ No □NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

NA

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

a. Defined and appropriate?

□Yes □ No □NA (Please explain.) Comments:

Yes

Laboratory Data Review Checklist

Completed by: Michael MacDaniel

Title: Field Technician Date: 9/10/2013

CS Report Name: FAIR 2013 Annual Groundwater Monitoring Report - 211815 Report Date: 8/23/2013

Consultant Firm: ARCADIS U.S., Inc.

Laboratory Name: Laboratory Pace Analytical Report Number: 10237828

ADEC File Number: 102.38.005 ADEC RecKey Number: 1986310112001

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No □NA (Please explain.) Comments:

      NA (Samples were not transferred to another lab.)

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. Correct analyses requested?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
□Yes □ No □NA (Please explain.) Comments:

Yes

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
□Yes □ No □NA (Please explain.) Comments:

Yes.

e. Data quality or usability affected? (Please explain.)
Comments:

No

4. Case Narrative
   a. Present and understandable?
   □Yes □ No □NA (Please explain.) Comments:

Yes

   b. Discrepancies, errors or QC failures identified by the lab?
   □Yes □ No □NA (Please explain.) Comments:

No

   c. Were all corrective actions documented?
   □Yes □ No □NA (Please explain.) Comments:

NA (No corrective action required)

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

No effect.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
   □Yes □ No □NA (Please explain.) Comments:

Yes

   b. All applicable holding times met?
   □Yes □ No □NA (Please explain.) Comments:

Yes

c. All soils reported on a dry weight basis?
□Yes □ No □NA (Please explain.) Comments:

NA (No soil samples submitted for analysis)

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
□Yes □ No □NA (Please explain.) Comments:

No

e. Data quality or usability affected?
Comments:

No effect.

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      □Yes □ No □NA (Please explain.) Comments:

Yes

      ii. All method blank results less than PQL?
      □Yes □ No □NA (Please explain.) Comments:

Yes

      iii. If above PQL, what samples are affected?
      Comments:

None

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      □Yes □ No □NA (Please explain.) Comments:

No

      v. Data quality or usability affected? (Please explain.)
      Comments:

No effect.

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 □NA (Please explain.) Comments:

Yes - Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples (Chloroethane, Bromomethane). Results were unaffected by high bias. Analyte recovery in the laboratory control sample (LCS) was outside QC limits (Chloroethane, Bromomethane).

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
□Yes □ No □NA (Please explain.) Comments:

NA (No metals/Inorganic analysis requested for submitted samples)

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
□Yes □ No □NA (Please explain.) Comments:

Yes

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
□Yes □ No □NA (Please explain.) Comments:

Yes

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

DRO: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. RPD value was outside control limits.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □ No □NA (Please explain.) Comments:

NA (No affected samples)

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

No

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□Yes □ No □NA (Please explain.) Comments:

Yes

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
□Yes □ No □NA (Please explain.) Comments:

a,a,a-Trifluorotoluene, 4-Bromofluorobenzene -- Surrogate recovery outside laboratory control limits. 4-Bromofluorobenzene (S) for MW-3-- Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results were unaffected by high bias.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes □ No □NA (Please explain.) Comments:

Yes

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

No, data quality and usability does not appear to be affected.

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

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
□Yes □ No □NA (Please explain.) Comments:

Yes

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 □NA (Please explain.) Comments:

Yes

iii. All results less than PQL?
□Yes □ No □NA (Please explain.) Comments:

NA

iv. If above PQL, what samples are affected?

Comments:

NA

v. Data quality or usability affected? (Please explain.)

Comments:

No

e. Field Duplicate

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

☐Yes ☐ No ☐NA (Please explain.) Comments:

No – Blind duplicates were submitted under the COC from sites 1001430 and 306456 which were sampled during the same event.

ii. Submitted blind to lab?

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

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

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

Where R1 = Sample Concentration

R_2 = Field Duplicate Concentration

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

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

Comments:

NA

f. Decontamination or Equipment Blank (If not used explain why).

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA (Sample collected with a disposable bailer.)

i. All results less than PQL?

☐Yes ☐ No ☐NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

NA

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)
   a. Defined and appropriate?
      □Yes □ No □NA (Please explain.) Comments:

Yes

Laboratory Data Review Checklist

Completed by: Michael MacDaniel

Title: Field Technician Date: 9/10/13

CS Report Name: FAIR 2013 Annual Groundwater Monitoring Report - 306456 Report Date: 8/21/2013

Consultant Firm: ARCADIS U.S., Inc.

Laboratory Name: Laboratory Lancaster Laboratories Report Number: 10237814

ADEC File Number: 102.38.004 ADEC RecKey Number: 1989310912101

1. Laboratory
   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
      □Yes □ No □NA (Please explain.) Comments:

      NA (Samples were not transferred to another lab.)

2. Chain of Custody (COC)
   a. COC information completed, signed, and dated (including released/received by)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. Correct analyses requested?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

3. Laboratory Sample Receipt Documentation
   a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

   b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?
□Yes □ No □NA (Please explain.) Comments:

Yes

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?
□Yes □ No □NA (Please explain.) Comments:

Yes

e. Data quality or usability affected? (Please explain.)
Comments:

No

4. Case Narrative
   a. Present and understandable?
   □Yes □ No □NA (Please explain.) Comments:

Yes

   b. Discrepancies, errors or QC failures identified by the lab?
   □Yes □ No □NA (Please explain.) Comments:

No

   c. Were all corrective actions documented?
   □Yes □ No □NA (Please explain.) Comments:

NA (No corrective action required)

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

No effect.

5. Samples Results
   a. Correct analyses performed/reported as requested on COC?
   □Yes □ No □NA (Please explain.) Comments:

Yes

   b. All applicable holding times met?
   □Yes □ No □NA (Please explain.) Comments:

Yes

c. All soils reported on a dry weight basis?
□Yes □ No □NA (Please explain.) Comments:

NA (No soil samples submitted for analysis)

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
□Yes □ No □NA (Please explain.) Comments:

No.

e. Data quality or usability affected?
Comments:

No, reported PQLs that exceeded the GCL were from a samples known to be impacted and the results can still be used for confirmatory purposes (RRO from MW-3 and MW-15).

6. QC Samples
   a. Method Blank
      i. One method blank reported per matrix, analysis and 20 samples?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

      ii. All method blank results less than PQL?
      □Yes □ No □NA (Please explain.) Comments:

      Yes

      iii. If above PQL, what samples are affected?
      Comments:

      None

      iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?
      □Yes □ No □NA (Please explain.) Comments:

      NA (No affected samples)

      v. Data quality or usability affected? (Please explain.)
      Comments:

      No

   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 □NA (Please explain.) Comments:

      Yes

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
□Yes □ No □NA (Please explain.) Comments:

NA (No metals/Inorganic analysis requested for submitted samples)

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
□Yes □ No □NA (Please explain.) Comments:

Yes

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
□Yes □ No □NA (Please explain.) Comments:

Yes

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

None

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
□Yes □ No □NA (Please explain.) Comments:

NA (No affected samples)

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

No

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?
□Yes □ No □NA (Please explain.) Comments:

Yes

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)
□Yes □ No □NA (Please explain.) Comments:

No – The following sample location and surrogates were outside of control limits: GEI-1: o-Terphenyl; GEI-3, o-Terphenyl; MW-5, o-Terphenyl; MSD, a,a,a-Trifluorotoluene; MS, 4-Bromofluorobenzene; GEI-2, 4-Bromofluorobenzene; GEI-7, 4-Bromofluorobenzene

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?
□Yes □ No □NA (Please explain.) Comments:

Yes

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

No

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

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)
□Yes □ No □NA (Please explain.) Comments:

Yes

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 □NA (Please explain.) Comments:

Yes

iii. All results less than PQL?
□Yes □ No □NA (Please explain.) Comments:

Yes

iv. If above PQL, what samples are affected?
Comments:

NA

v. Data quality or usability affected? (Please explain.)
Comments:

No

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?
□Yes □ No □NA (Please explain.) Comments:

Yes, No. Only one duplicate was collected for site 306456.

ii. Submitted blind to lab?

□Yes □ No □NA (Please explain.) Comments:

Yes

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 R1 = Sample Concentration

R_2 = Field Duplicate Concentration

□Yes □ No □NA (Please explain.) Comments:

Yes.

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

Comments:

No, data quality or usability does not appear to be affected.

f. Decontamination or Equipment Blank (If not used explain why).

□Yes □ No □NA (Please explain.) Comments:

NA (Sample collected with a disposable bailer.)

i. All results less than PQL?

□Yes □ No □NA (Please explain.) Comments:

NA

ii. If above PQL, what samples are affected?

Comments:

NA

iii. Data quality or usability affected? (Please explain.)

Comments:

NA

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

a. Defined and appropriate?

□Yes □ No □NA (Please explain.) Comments:

Yes