

# QUARTERLY GROUNDWATER MONITORING REPORT

*First Quarter of 2013*

*ARCO Facility No. 980*

*19822 Roosevelt Way NE, Seattle, WA*

*Antea<sup>®</sup> Group Project No. 00980HA131*

*May 15, 2013*

*Prepared for:*

**Atlantic Richfield Company**

2010 Crow Canyon Place, Suite 150

San Ramon, CA 94583

*Prepared by:*

**Antea<sup>®</sup> Group**

4006 148<sup>th</sup> Avenue NE

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**QUARTERLY GROUNDWATER MONITORING REPORT**  
**Atlantic Richfield Company**  
**First Quarter of 2013**  
**May 15, 2013**

**ARCO Facility No.:** 980  
**Address:** 10822 Roosevelt Way NE, Seattle, WA  
**Atlantic Richfield Project Manager:** Paul Supple  
**Consulting Co./Contact Person:** Antea Group / Bryan Taylor  
**Consultant Project Number:** 00980HA131  
**Primary Agency/Regulatory ID No.:** Washington State Department of Ecology / UST Site ID# 8740

**WORK PERFORMED DURING FIRST QUARTER OF 2013:**

- Antea Group conducted quarterly groundwater monitoring and sampling on March 20, 2013.
- Antea Group prepared this quarterly groundwater monitoring report.

**WORK SCHEDULED FOR 2013:**

- Atlantic Richfield Company (ARC) is currently in the process of developing the scope of work for the remainder of 2013. Future site remedial activities will be completed by Closure Solutions Incorporated on behalf of ARC.

Current Phase of Project:	<b>Monitoring</b>
Frequency of Groundwater Sampling and Monitoring:	<b>Quarterly</b>
Are LPH Present On-Site:	<b>No</b>
LPH Recovered this Reporting Period:	<b>None</b>
Cumulative LPH Recovered to Date:	<b>21,799 Gallons total fluids by Enhanced Liquid Recovery since 1997</b>
Amount of Soil Removed to Date:	<b>Drill Cuttings</b>
Current Remediation Techniques:	<b>Natural Attenuation</b> (Please reference the <i>Annual Groundwater Monitoring and Remediation Report</i> dated February 12, 2013, for all information pertaining to the former dual phase extraction remediation system)



Approximate Depth to Groundwater:	<b>1.39 to 15.86 ft (3/20/13);</b>
Groundwater Gradient:	<b>Southeast</b>
	<b>0.07 ft/linear ft (3/20/13);</b>

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Sincerely,

A handwritten signature in blue ink, appearing to read "Bryan Taylor".

Bryan Taylor  
Senior Project Manager

cc: Mr. Paul Supple, Atlantic Richfield Company (Electronic Copy – Enfos Upload)  
Ms. Kathleen Walso, Closure Solutions Incorporated  
File, Antea Group

## *Tables*

Table 1            Summary of Groundwater Data

## *Chart*

Chart 1            MW-12 Hydrocarbon Concentrations and Water Elevations vs. Time

Chart 2            B1 (JPHC) Hydrocarbon Concentrations and Water Elevations vs. Time

## *Figures*

Figure 1           Site Location Map

Figure 2           Site Aerial Map

Figure 3           Inferred Water Table Contour Map – 3/20/13

## *Appendices*

Appendix A        ALS Analytical Lab Reports and Chain-of-Custody Documentation

Appendix B        Field Data Sheets

## *References*

*Annual Groundwater Monitoring and Remediation Report – ARCO Facility No. 980, Antea Group, February 12, 2013.*



## ***Tables***

Table 1      Summary of Groundwater Data

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-1	262.35	10/05/94	2.31	0.00	260.04	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-1	262.35	02/15/95	1.39	0.00	260.96	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-1	262.35	04/10/95	1.11	0.00	261.24	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	07/20/95	1.78	0.00	260.57	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	10/25/95	1.53	0.00	260.82	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	01/23/96	0.79	0.00	261.56	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	04/17/96	1.13	0.00	261.22	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	07/08/96	1.30	0.00	261.05	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	10/10/96	1.67	0.00	260.68	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	03/11/97	0.82	0.00	261.53	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	05/29/97	0.99	0.00	261.36	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	08/05/97	0.31	0.00	262.04	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	10/23/97	0.32	0.00	262.03	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	03/11/98	0.81	0.00	261.54	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/30/98	1.26	0.00	261.09	4.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/25/98	1.73	0.00	260.62	4.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/29/98	0.84	0.00	261.51	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	03/09/99	0.60	0.00	261.75	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/02/99	1.04	0.00	261.31	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/27/99	1.71	0.00	260.64	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/20/99	1.60	0.00	260.75	1.1	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	262.35	03/16/00	1.40	0.00	260.95	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/30/00	1.50	0.00	260.85	4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/27/00	21.50	0.00	240.85	1.23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	11/10/00	1.43	0.00	260.92	0.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	03/19/01	1.45	0.00	260.90	2.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/27/01	1.75	0.00	260.60	1.68	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-1	262.35	09/26/01	2.15	0.00	260.20	0.85	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	10,100	29,100	NA	NA	NP
MW-1	262.35	12/03/01	1.35	0.00	261.00	0.67	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	NA	NA	NP
MW-1	262.35	06/06/02	1.54	0.00	260.81	0.9	<0.500	0.602	<0.500	<1.00	<2.00	<0.01	<1.00	<50.0	<250	<500	<1.00	<1.00	NP
MW-1	262.35	06/26/03	1.62	0.00	260.73	2.2	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-1	262.35	12/09/03	1.37	0.00	260.98	2.8	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-1	262.35	04/07/04	1.25	0.00	261.10	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	11/16/04	1.82	0.00	260.53	0.20	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	2.49	<1.00	NP
MW-1	262.35	03/29/05	1.0	0.00	261.35	7.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/22/05	1.40	0.00	260.95	7.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/12/05	1.95	0.00	260.40	4.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/06/05	1.64	0.00	260.71	0.9	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<255	<510	1.26	<1.00	NP
MW-1	262.35	06/05/06	1.77	0.00	260.58	4.7	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<253	<505	1.76	<1.00	NP
MW-1	262.35	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/24/07	2.98	0.00	259.37	7.7	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP

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Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-1	262.35	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-1	262.35	01/30/08	2.83	0.00	259.52	1.73	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-1	262.35	04/03/08	3.13	0.00	259.22	0.78	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	262.35	07/02/08	3.88	0.00	258.47	0.90	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP
MW-1	262.35	10/03/08	3.53	0.00	258.82	1.3	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-1	262.35	01/05/09	2.87	0.00	259.48	1.2	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP
MW-1	262.35	04/07/09	3.08	0.00	259.27	7.7	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
MW-1	262.35	07/08/09	2.89	0.00	259.46	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	10/06/09	3.03	0.00	259.32	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	01/05/10	2.06	0.00	260.29	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	05/25/10	2.20	0.00	260.15	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	08/19/10	2.59	0.00	259.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/07/10	2.18	0.00	260.17	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	01/26/11	1.69	0.00	260.66	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/16/11	1.97	0.00	260.38	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/22/11	3.04	0.00	259.31	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/06/11	3.40	0.00	258.95	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	03/08/12	2.05	0.00	260.30	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	06/19/12	2.04	0.00	260.31	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	09/21/12	2.50	0.00	259.85	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	262.35	12/11/12	1.57	0.00	260.78	1.5	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<100	<182	<182	<3.0	<3.0	NP
MW-1	262.35	03/20/13	1.39	0.00	260.96	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	10/05/94	10.09	0.00	251.43	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	59	NA	NA	<2.0	NA	P
MW-2	261.52	02/15/95	9.05	0.00	252.47	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-2	261.52	04/11/95	9.05	0.00	252.47	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	261.52	07/20/95	9.70	0.00	251.82	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
MW-2	261.52	10/25/95	9.33	0.00	252.19	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
MW-2	261.52	01/23/96	8.22	0.00	253.30	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	261.52	04/17/96	9.20	0.00	252.32	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
MW-2	261.52	07/08/96	9.45	0.00	252.07	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
MW-2	261.52	10/10/96	9.53	0.00	251.99	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	03/11/97	8.31	0.00	253.21	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	05/29/97	5.54	0.00	255.98	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	08/05/97	9.40	0.00	252.12	4.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	10/23/97	9.06	0.00	252.46	2.3	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	54.7	<250	<750	NA	NA	NP
MW-2	261.52	03/11/98	12.71	0.00	248.81	2.0	0.834	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	
MW-2	261.52	06/30/98	10.17	0.00	251.35	1.5	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
MW-2	261.52	09/25/98	10.14	0.00	251.38	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	12/29/98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	03/09/99	11.12	NM	250.40	2.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	06/02/99	9.66	0.00	251.86	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	09/27/99	9.85	0.00	251.67	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-2	261.52	12/20/99	8.85	0.00	252.67	1.2	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	261.52	03/16/00	9.53	0.00	251.99	0.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	06/30/00	9.74	0.00	251.78	2.4	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-2	261.52	09/27/00	9.74	0.00	251.78	1.21	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-2	261.52	11/10/00	8.80	0.00	252.72	1.28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	03/19/01	8.69	0.00	252.83	0.83	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	06/27/01	9.32	0.00	252.20	0.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	09/26/01	10.20	0.00	251.32	0.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	12/03/01	9.00	0.00	252.52	0.69	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	NA	NA	NP
MW-2	261.52	06/06/02	9.65	0.00	251.87	1.0	<0.500	<0.500	<0.500	<1.00	<2.00	<0.01	<1.00	<50.0	<250	<500	<1.00	<1.00	NP
MW-2	261.52	06/26/03	9.68	0.00	251.84	1.5	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-2	261.52	12/09/03	8.93	0.00	252.59	1.5	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-2	261.52	04/07/04	8.21	0.00	253.31	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	11/16/04	8.36	0.00	253.16	1.37	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-2	261.52	03/29/05	7.35	0.00	254.17	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	06/22/05	8.10	0.00	253.42	1.1	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-2	261.52	09/12/05	9.01	0.00	252.51	0.4	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<281	<562	<1.00	<1.00	NP
MW-2	261.52	12/06/05	7.56	0.00	253.96	1.5	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<248	<495	<1.00	<1.00	NP
MW-2	261.52	06/05/06	7.66	0.00	253.86	3.4	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	<1.00	<1.00	NP
MW-2	261.52	09/29/06	16.28	0.00	245.24	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	12/19/06	8.05	0.00	253.47	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	09/24/07	10.04	0.00	251.48	1.2	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-2	261.52	12/31/07	9.01	0.00	252.51	NM	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-2	261.52	01/30/08	8.97	0.00	252.55	1.33	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-2	261.52	04/03/08	15.90	0.00	245.62	0.62	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	261.52	07/02/08	14.90	0.00	246.62	0.77	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<240	<481	NA	NA	NP
MW-2	261.52	10/03/08	15.56	0.00	245.96	2.2	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-2	261.52	01/05/09	13.52	0.00	248.00	1.9	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP
MW-2	261.52	04/08/09	15.38	0.00	246.14	1.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
MW-2	261.52	07/08/09	10.52	0.00	251.00	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	10/06/09	10.60	0.00	250.92	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	01/05/10	9.65	0.00	251.87	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	05/25/10	9.89	0.00	251.63	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	08/19/10	10.16	0.00	251.36	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	12/07/10	9.68	0.00	251.84	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	01/26/11	9.26	0.00	252.26	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	06/16/11	9.59	0.00	251.93	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	09/22/11	14.06	0.00	247.46	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	12/06/11	17.30	0.00	244.22	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	03/08/12	10.50	0.00	251.02	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	06/19/12	9.72	0.00	251.80	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	09/21/12	10.09	0.00	251.43	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS



**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-2	261.52	12/11/12	8.86	0.00	252.66	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	261.52	03/20/13	8.93	0.00	252.59	0.70	<0.50	<0.50	<0.50	<1.00	<0.50	NS	NS	<50	<250	<500	<10.0	NA	LF
MW-3	261.47	10/05/94	10.10	0.00	251.37	NM	12	3	<0.5	1.5	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	261.47	02/15/95	8.83	0.00	252.64	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	261.47	04/10/95	8.90	0.00	252.57	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	07/20/95	9.65	0.00	251.82	NM	0.78	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-3	261.47	10/25/95	9.27	0.00	252.20	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	01/23/96	8.12	0.00	253.35	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	04/17/96	9.17	0.00	252.30	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-3	261.47	07/08/96	9.21	0.00	252.26	NM	0.879	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-3	261.47	10/10/96	9.60	0.00	251.87	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/11/97	8.21	0.00	253.26	0.4	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
MW-3	261.47	05/29/97	8.13	0.00	253.34	0.5	2.10	<0.5	<0.5	<1.0	NA	NA	NA	223	NA	NA	NA	NA	NP
MW-3	261.47	08/05/97	8.13	0.00	253.34	0.6	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	56.5	NA	NA	NA	NA	NP
MW-3	261.47	10/23/97	11.31	0.00	250.16	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/11/98	9.57	0.00	251.90	5.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/30/98	9.82	0.00	251.65	2.7	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
MW-3	261.47	09/25/98	10.14	0.00	251.33	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/29/98	9.15	0.00	252.32	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/09/99	9.50	0.00	251.97	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/02/99	9.41	0.00	252.06	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	09/27/99	9.43	0.00	252.04	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/20/99	8.20	0.00	253.27	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/16/00	9.30	0.00	252.17	0.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/30/00	9.66	0.00	251.81	1.9	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-3	261.47	09/27/00	9.78	0.00	251.69	0.46	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-3	261.47	11/10/00	8.88	0.00	252.59	0.66	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/19/01	8.90	0.00	252.57	1.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/27/01	9.62	0.00	251.85	0.18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	09/26/01	10.28	0.00	251.19	1.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/03/01	8.10	0.00	253.37	0.86	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/06/02	9.70	0.00	251.77	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/26/03	9.65	0.00	251.82	2.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-3	261.47	12/09/03	8.87	0.00	252.60	1.4	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-3	261.47	04/07/04	8.27	0.00	253.20	0.8	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-3	261.47	11/16/04	8.40	0.00	253.07	1.61	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	1.52	<1.00	NP
MW-3	261.47	03/29/05	7.64	0.00	253.83	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/22/05	8.67	0.00	252.80	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	09/12/05	9.85	0.00	251.62	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/06/05	7.83	0.00	253.64	0.7	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-3	261.47	06/05/06	7.76	0.00	253.71	3.8	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<258	<515	<1.00	<1.00	NP
MW-3	261.47	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments	
MW-3	261.47	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-3	261.47	09/24/07	10.20	0.00	251.27	1.0	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP	
MW-3	261.47	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-3	261.47	01/30/08	8.73	0.00	252.74	1.48	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP	
MW-3	261.47	04/03/08	15.05	0.00	246.42	0.79	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP	
MW-3	261.47	07/02/08	14.86	0.00	246.61	1.40	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	NA	NA	NP	
MW-3	261.47	10/03/08	15.07	0.00	246.40	0.4	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP	
MW-3	261.47	01/05/09	12.74	0.00	248.73	2.4	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP	
MW-3	261.47	04/07/09	15.33	0.00	246.14	7.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<240	<481	<1.00	<1.00	NP	
MW-3	261.47	07/08/09	10.41	0.00	251.06	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	10/06/09	10.56	0.00	250.91	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	01/05/10	9.48	0.00	251.99	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	05/25/10	9.70	0.00	251.77	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	08/19/10	10.15	0.00	251.32	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/07/10	9.51	0.00	251.96	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	01/26/11	8.80	0.00	252.67	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/16/11	9.50	0.00	251.97	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	09/22/11	14.25	0.00	247.22	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/08/12	10.48	0.00	250.99	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	06/19/12	9.54	0.00	251.93	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	09/21/12	10.22	0.00	251.25	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	12/11/12	8.35	0.00	253.12	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	261.47	03/20/13	8.91	0.00	252.56	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	10/05/94	19.69	0.19	242.43	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	02/15/95	18.60	3.71	246.34	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	04/10/95	16.90	0.37	245.37	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	07/20/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	10/25/95	18.24	0.00	243.73	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	01/23/96	15.37	SHEEN	246.60	NM	5,000	5,100	2,000	15,000	NA	NA	NA	3,300,000	9,000	14,000	NA	NA	P	
MW-4	261.97	04/17/96	16.80	0.00	245.17	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	07/08/96	15.29	0.00	246.68	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	261.97	10/10/96	18.55	0.02	243.44	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-4	261.97	03/11/97	15.59	TRACE	246.38	NM	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
MW-4	261.97	05/29/97	15.65	0.72	246.90	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-4	261.97	08/05/97	16.39	0.48	245.96	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-4	261.97	10/23/97	19.72	0.02	242.27	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-4	261.97	03/11/98	14.74	SHEEN	247.23	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-4	261.97	06/30/98	17.57	SHEEN	244.40	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-4	261.97	09/25/98	17.80	SHEEN	244.17	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-4	261.97	12/29/98	15.73	SHEEN	246.24	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-4	261.97	03/09/99	14.70	0.00	247.27	NM	4.76	<0.5	<0.5	1.73	NA	NA	NA	53.3	<250	<750	NA	NA	NP	

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-4	261.97	06/02/99	16.21	SHEEN	245.76	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-4	261.97	09/27/99	18.58	0.00	243.39	NM	4.04	<0.500	<0.500	<10.0	NA	NA	NA	2,100	590	NA	NA	NA	NP
MW-4	261.97	12/20/99	15.40	0.00	246.57	0.18	690	<2.50	4.77	33.7	NA	NA	NA	385	<498	NA	NA	NA	NP
MW-4	261.97	03/16/00	15.85	0.00	246.12	0.48	52.8	1.22	3.25	25.3	NA	NA	NA	685	NA	NA	NA	NA	NP
MW-4	261.97	06/30/00	17.65	0.00	244.32	1.6	152	5.70	3.54	31.1	NA	NA	NA	983	3,340	<750	NA	NA	NP
MW-4	261.97	09/27/00	18.25	0.00	243.72	0.59	147	3.51	19.4	64.7	NA	NA	NA	1,430	1,800	<750	NA	NA	NP
MW-4	261.97	11/10/00	17.36	0.01	244.62	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-4	261.97	03/19/01	17.39	0.00	244.58	0.27	338	<5.00	14.0	31.9	319	NA	NA	1,040	739	<1,450	NA	NA	NP
MW-4	261.97	06/27/01	17.83	0.00	244.14	0.92	37.8	0.821	1.69	13.0	18.6	NA	NA	630	<250	<750	NA	NA	NP
MW-4	261.97	09/26/01	18.27	0.00	243.70	0.19	1,850	491	3,480	30,100	149	NA	NA	611,000	11,300	11,500	NA	NA	NP
MW-4	261.97	12/03/01	16.05	0.00	245.92	0.37	325	<5.00	<5.00	32.5	34.7	NA	NA	1,980	2,120	3,880	NA	NA	NP
MW-4	261.97	06/06/02	17.41	0.00	244.56	0.6	199	<2.50	6.30	48.6	33.2	<0.01	<1.00	2,940	1,620	2,160	6.96	2.43	NP
MW-4	261.97	06/26/03	17.56	0.00	244.41	1.2	1,350	<5.00	45.1	52.1	<20.0	NA	NA	4,410	6,630	3,070	4.04	1.87	NP, a
MW-4	261.97	12/09/03	16.40	0.00	245.57	1.8	918	2.52	64.0	47.6	38.2	NA	NA	3,200	1,240	2,450	<1.00	<1.00	NP
MW-4	261.97	04/07/04	16.53	0.00	245.44	NM	1,230	<5.00	10.1	25.2	<10.0	NA	NA	3,470	711	1,230	2.45	1.58	NP
MW-4	261.97	11/16/04	17.20	0.10	244.85	NM	990	<5.00	96.9	154	20.9	NA	NA	76,200	24,300	8,350	11.5	<1.00	NP
MW-4	261.16	03/29/05	15.06	0.00	246.10	1.2	5,920	79.0	1,140	6,630	<100	<0.010	<25.0	28,900	16,700	25,800	204	NA	NP
MW-4	261.16	06/22/05	16.97	0.00	244.19	0.7	1,070	<5.00	22.5	44.7	<20.0	NA	NA	2,730	4,600	6,130	10	<1.00	NP
MW-4	261.16	09/12/05	18.09	0.00	243.07	0.4	980	10.3	143	55.1	16.2	NA	NA	5,450	1,070	1,590	2.62	<1.00	NP
MW-4	261.16	12/06/05	16.75	0.00	244.41	1.7	737	5.0	127	58.0	<10.0	NA	NA	4,320	1,030	1,720	2.42	<1.00	NP
MW-4	261.16	06/05/06	16.57	0.00	244.59	2.1	851	<10.0	146	168	<20.0	NA	NA	3,720	430	641	3.04	<1.00	NP
MW-4	261.16	09/29/06	25.28	0.00	235.88	0.7	<0.500	<0.500	0.81	<3.00	NA	NA	NA	174	NA	NA	NA	NA	NP
MW-4	261.16	12/19/06	15.49	0.00	245.67	1.5	33.8	<0.500	2.35	2.03	NA	NA	NA	566	NA	NA	NA	NA	NP
MW-4	261.16	09/24/07	18.45	0.00	242.71	2.1	99.5	1.62	67.3	82.2	<1.00	NA	NA	1,360	1,610	3,710	NA	NA	NP
MW-4	261.16	12/31/07	16.41	0.00	244.75	1.33	111	2.9	53.6	63.5	<1.00	NA	NA	1,620	<236	<472	NA	NA	NP
MW-4	261.16	01/30/08	16.49	0.00	244.67	1.15	134	11.6	13.2	63.2	<1.00	NA	NA	1,640	<236	<472	NA	NA	NP
MW-4	261.16	04/03/08	22.96	0.00	238.20	1.25	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-4	261.16	07/02/08	20.43	0.00	240.73	1.72	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	NA	NA	NP
MW-4	261.16	10/03/08	24.98	0.00	236.18	0.8	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-4	261.16	01/05/09	21.07	0.00	240.09	1.9	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	644	NA	NA	NP
MW-4	261.16	04/08/09	24.52	0.00	236.64	1.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<245	<490	<1.00	<1.00	NP
MW-4	261.16	07/08/09	18.37	0.00	242.79	2.0	0.900	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<248	<495	3.95	2.96	NP
MW-4	261.16	10/06/09	18.85	0.00	242.31	2.8	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	69	<245	<490	3.6	2.9	NP
MW-4	261.16	01/05/10	16.52	0.00	244.64	1.6	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	<50.0	<120	250	3.8	<2.00	NP
MW-4	261.16	05/25/10	17.11	0.00	244.05	1.6	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	<50.0	210	<240	<2.00	<2.00	NP
MW-4	261.16	08/19/10	18.00	0.00	243.16	0.9	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	<50.0	140	<240	<2.00	<2.00	NP
MW-4	261.16	12/07/10	16.60	0.00	244.56	1.2	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	420	920	2.6	<2.0	NP
MW-4	261.16	01/26/11	15.32	0.00	245.84	2.3	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	260	330	3.0	<2.0	NP
MW-4	261.16	06/16/11	16.72	0.00	244.44	0.8	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	1,200	2,200	<2.0	<2.0	NP
MW-4	261.16	09/22/11	20.26	0.00	240.90	6.1	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<96.2	<481	<2.0	<2.0	NP
MW-4	261.16	12/06/11	21.94	0.00	239.22	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<75.5	<377	<10.0	<10.0	NP
MW-4	261.16	03/08/12	17.42	0.00	243.74	6.2	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<82.5	<412	<10.0	<10.0	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-4	261.16	06/19/12	17.22	0.00	243.94	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<160	<800	<10.0	<10.0	NP
MW-4	261.16	09/21/12	18.25	0.00	242.91	0.14	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<80.8	<404	<10.0	<10.0	NP
MW-4	261.16	12/11/12	15.80	0.00	245.36	1.0	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<100	<189	304	<3.0	<3.0	NP
MW-4	261.16	03/20/13	15.86	0.00	245.30	0.79	<0.50	<0.50	<0.50	<1.00	<0.50	NA	NA	<50	<250	<500	<10.0	NA	LF
MW-5	259.96	10/05/94	19.20	0.00	240.76	NM	57	2.6	0.94	2.2	NA	NA	NA	<50	NA	NA	2.4	NA	P
MW-5	259.96	02/15/95	16.20	0.00	243.76	NM	160	0.96	<0.5	<1.0	NA	NA	NA	63	440	3,300	<2.0	NA	P, *, a
MW-5	259.96	04/10/95	16.59	0.00	243.37	NM	270	<2.0	<2.0	<4.0	NA	NA	NA	<100	NA	NA	NA	NA	P
MW-5	259.96	07/20/95	16.96	0.00	243.00	NM	330	1.1	1.1	<1.0	NA	NA	NA	80	720	870	NA	NA	P
MW-5	259.96	10/26/95	16.55	0.00	243.41	NM	440	<0.5	<0.5	<1.0	NA	NA	NA	61	1,100	2,400	NA	NA	P
MW-5	259.96	01/23/96	15.30	SHEEN	244.66	NM	770	<4.0	<4.0	8.4	NA	NA	NA	<200	3,200	10,000	NA	NA	P
MW-5	259.96	04/17/96	12.72	0.00	247.24	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	490	<750	NA	NA	P
MW-5	NE	07/08/96	16.25	0.00	NE	NM	<0.5	<0.5	<0.5	2.64	NA	NA	NA	544	683	791	NA	NA	P
MW-5	261.04	10/10/96	NM	NM	NM	NM	NS	NS	NS	NS	NA	NA	NA	NS	NS	NS	NS	NS	NS
MW-5	261.04	03/11/97	14.80	0.00	246.24	0.8	3.22	10.9	1.65	13.0	NA	NA	NA	76.4	4,241	<750	NA	NA	NP
MW-5	261.04	05/29/97	12.38	TRACE	248.66	NM	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE
MW-5	261.04	08/05/97	15.54	0.00	245.50	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	10/23/97	15.29	0.00	245.75	4.2	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	447	<750	NA	NA	NP
MW-5	261.04	03/11/98	14.03	0.00	247.01	2.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	NP
MW-5	261.04	06/30/98	13.17	0.00	247.87	8.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	09/25/98	16.79	0.00	244.25	0.8	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP
MW-5	261.04	12/29/98	13.12	0.00	247.92	9.8	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP
MW-5	261.04	03/09/99	10.04	0.00	251.00	9.6	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP
MW-5	261.04	06/02/99	16.11	0.00	244.93	1.0	<0.500	3.17	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-5	261.04	09/27/99	15.50	0.00	245.54	NM	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	NA	NA	NA	NP
MW-5	261.04	12/20/99	15.00	0.00	246.04	1.13	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	NA	NA	NA	NP
MW-5	261.04	03/16/00	11.39	0.00	249.65	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	06/30/00	16.93	0.00	244.11	3.8	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-5	261.04	09/27/00	17.67	0.00	243.37	0.31	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-5	261.04	11/10/00	17.10	0.00	243.94	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	03/19/01	16.57	0.00	244.47	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	06/27/01	16.52	0.00	244.52	2.07	<2.50	<2.50	<2.50	<5.00	90.1	NA	NA	<250	<322	<965	NA	NA	NP
MW-5	261.04	09/26/01	14.22	0.00	246.82	2.97	<0.500	<0.500	<0.500	<1.00	19.7	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-5	261.04	12/03/01	15.32	0.00	245.72	1.07	<0.500	<0.500	<0.500	<1.00	27.2	NA	NA	<50.0	<250	<500	NA	NA	NP
MW-5	261.04	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	06/26/03	16.83	0.00	244.21	1.5	<0.500	<0.500	<0.500	<1.00	22.1	NA	NA	<50.0	<250	<500	1.63	<1.00	NP
MW-5	261.04	12/09/03	15.59	0.00	245.45	1.3	<0.500	<0.500	<0.500	<1.00	21.0	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-5	261.04	04/07/04	16.10	0.00	244.94	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	11/16/04	16.58	0.00	244.46	0.65	<0.200	<0.500	<0.500	<1.00	26.9	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-5	261.04	03/29/05	16.03	0.00	245.01	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	06/22/05	16.57	0.00	244.47	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	09/12/05	17.44	0.00	243.60	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	12/06/05	15.86	0.00	245.18	1.8	<0.500	<0.500	<0.500	<1.00	9.4	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-5	261.04	06/05/06	15.78	0.00	245.26	1.6	<0.500	<0.500	<0.500	<1.00	4.37	NA	NA	<50.0	<263	<526	2.1	<1.00	NP
MW-5	261.04	09/29/06	23.75	0.00	237.29	4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	12/19/06	14.58	0.00	246.46	2.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	09/24/07	17.61	0.00	243.43	1.8	<0.500	<0.500	<0.500	<3.00	1.54	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-5	261.04	12/31/07	15.40	0.00	245.64	2.08	<0.500	<0.500	<0.500	<3.00	1.35	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-5	261.04	01/30/08	15.50	0.00	245.54	2.95	<0.500	<0.500	<0.500	<3.00	1.27	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-5	261.04	04/03/08	20.44	0.00	240.60	5.02	<0.500	<0.500	<0.500	<3.00	1.95	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-5	261.04	07/02/08	19.21	0.00	241.83	5.84	<0.500	<0.500	<0.500	<3.00	2.02	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-5	261.04	10/03/08	22.82	0.00	238.22	NM	<0.500	<0.500	<0.500	<3.00	1.81	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-5	261.04	01/05/09	20.60	0.00	240.44	5.7	<0.500	<0.500	<0.500	<3.00	1.43	NA	NA	<50.0	<250	<500	NA	NA	NP
MW-5	261.04	04/08/09	21.52	0.00	239.52	4.8	<0.500	<0.500	<0.500	<1.00	2.07	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
MW-5	261.04	07/08/09	17.51	0.00	243.53	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	10/06/09	18.30	0.00	242.74	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	01/05/10	15.62	0.00	245.42	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	05/25/10	16.25	0.00	244.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	08/19/10	17.40	0.00	243.64	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	12/07/10	15.81	0.00	245.23	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	01/26/11	14.56	0.00	246.48	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	06/16/11	15.95	0.00	245.09	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	09/22/11	19.22	0.00	241.82	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	12/06/11	20.45	0.00	240.59	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	03/08/12	16.40	0.00	244.64	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	06/19/12	16.27	0.00	244.77	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	09/21/12	17.65	0.00	243.39	0.29	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<80.0	<400	<10.0	<10.0	NP
MW-5	261.04	12/11/12	14.24	0.00	246.80	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	261.04	03/20/13	14.92	0.00	246.12	1.30	<0.50	<0.50	<0.50	<1.00	<0.50	NS	NS	<50	<250	<500	<10.0	NA	LF
MW-6	261.72	10/05/94	10.35	0.00	251.37	NM	160	260	45	180	NA	NA	NA	1,400	NA	NA	<2.0	NA	P
MW-6	261.72	02/15/95	9.24	0.00	252.48	NM	13	32	5.7	30	NA	NA	NA	220	NA	<1,000	<2.0	NA	P, a
MW-6	261.72	04/10/95	9.29	0.00	252.43	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	07/20/95	10.08	0.00	251.64	NM	130	410	70	390	NA	NA	NA	2,300	<250	NA	NA	NA	P
MW-6	261.72	10/25/95	9.77	0.00	251.95	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	01/23/96	8.56	0.00	253.16	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	04/17/96	9.50	0.00	252.22	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-6	261.72	07/08/96	9.65	0.00	252.07	NM	<0.5	0.528	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
MW-6	261.72	10/10/96	9.95	0.00	251.77	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	03/11/97	8.69	0.00	253.03	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	05/29/97	8.73	0.00	252.99	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	08/05/97	8.90	0.00	252.82	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	10/23/97	8.08	0.00	253.64	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	03/11/98	11.51	0.00	250.21	0.9	1.4	5.35	1.24	19.4	NA	NA	NA	192	<250	<750	NA	NA	
MW-6	261.72	06/30/98	10.44	0.00	251.28	2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/25/98	10.56	0.00	251.16	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-6	261.72	12/29/98	9.68	0.00	252.04	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	03/09/99	11.23	0.00	250.49	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	06/02/99	9.89	0.00	251.83	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/27/99	8.22	0.00	253.50	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	12/20/99	9.30	0.00	252.42	0.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	03/16/00	9.64	0.00	252.08	0.31	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-6	261.72	06/30/00	10.10	0.00	251.62	2.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/27/00	10.51	0.00	251.21	0.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	11/10/00	9.25	0.00	252.47	0.34	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<80.0	<250	<750	NA	NA	NP
MW-6	261.72	03/19/01	9.15	0.00	252.57	0.89	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-6	261.72	06/27/01	9.96	0.00	251.76	0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/26/01	10.53	0.00	251.19	0.51	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	12/03/01	9.05	0.00	252.67	0.95	2.15	0.875	10.4	36.1	<5.00	NA	NA	394	<250	<500	NA	NA	NP
MW-6	261.72	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	06/26/03	10.02	0.00	251.70	2.4	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-6	261.72	12/09/03	9.25	0.00	252.47	1.9	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-6	261.72	04/07/04	8.65	0.00	253.07	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	11/16/04	8.82	0.00	252.90	NM	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-6	261.72	03/29/05	8.10	0.00	253.62	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	06/22/05	8.77	0.00	252.95	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/12/05	9.65	0.00	252.07	1.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<294	<588	<1.00	<1.00	NP
MW-6	261.72	12/06/05	8.24	0.00	253.48	2.2	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<245	<490	<1.00	<1.00	NP
MW-6	261.72	06/05/06	8.08	0.00	253.64	3.2	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<263	<526	<1.00	<1.00	NP
MW-6	261.72	09/29/06	15.73	0.00	245.99	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	12/19/06	8.21	0.00	253.51	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/24/07	10.55	0.00	251.17	9.6	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-6	261.72	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-6	261.72	01/30/08	9.09	0.00	252.63	1.07	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-6	261.72	04/03/08	15.89	0.00	245.83	1.66	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	NA	NA	NP
MW-6	261.72	07/02/08	15.43	0.00	246.29	1.98	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<240	<481	NA	NA	NP
MW-6	261.72	10/03/08	15.48	0.00	246.24	1.8	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-6	261.72	01/05/09	13.06	0.00	248.66	2.6	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-6	261.72	04/08/09	17.48	0.00	244.24	1.4	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
MW-6	261.72	07/08/09	11.00	0.00	250.72	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	10/06/09	11.17	0.00	250.55	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	01/05/10	10.06	0.00	251.66	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	05/25/10	10.26	0.00	251.46	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	08/19/10	10.66	0.00	251.06	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	12/07/10	10.04	0.00	251.68	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	01/26/11	9.48	0.00	252.24	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	06/16/11	9.98	0.00	251.74	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/22/11	14.79	0.00	246.93	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-6	261.72	12/06/11	17.88	0.00	243.84	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	03/08/12	11.03	0.00	250.69	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	06/19/12	15.09	0.00	246.63	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	09/21/12	10.71	0.00	251.01	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	12/11/12	9.46	0.00	252.26	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	261.72	03/20/13	9.33	0.00	252.39	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	10/05/94	17.62	0.00	243.59	NM	4,600	470	81	810	NA	NA	NA	5,500	NA	NA	<2.0	NA	P
MW-7	261.21	02/15/95	15.00	0.00	246.21	NM	5,500	240	80	160	NA	NA	NA	4,300	NA	12,000	<2.0	NA	P, a
MW-7	261.21	04/10/95	15.10	0.00	246.11	NM	3,600	140	53	470	NA	NA	NA	2,800	NA	7,800	NA	NA	P, b
MW-7	261.21	07/20/95	16.70	0.00	244.51	NM	3,300	260	36	350	NA	NA	NA	2,400	1,200	NA	NA	NA	P
MW-7	261.21	10/26/95	16.38	0.00	244.83	NM	590	12	<0.5	<1.0	NA	NA	NA	170	930	2,100	NA	NA	P
MW-7	261.21	01/23/96	14.26	0.00	246.95	NM	2.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	1,100	2,100	NA	NA	P
MW-7	261.21	04/17/96	15.39	0.00	245.82	NM	2,500	57	45	270	NA	NA	NA	1,500	580	<750	NA	NA	P
MW-7	261.21	07/08/96	15.65	0.00	245.56	NM	1,220	25.6	<0.5	162	NA	NA	NA	1,100	879	<750	NA	NA	P
MW-7	261.21	10/10/96	16.35	0.00	244.86	NM	1,100	21.3	21.5	72.8	NA	NA	NA	<1,000	636	<750	NA	NA	P
MW-7	261.21	03/11/97	14.21	0.00	247.00	0.3	708	20.8	8.18	22.0	NA	NA	NA	373	8,571	<750	NA	NA	NP
MW-7	261.21	05/29/97	11.56	0.00	249.65	0.5	580	<5.0	6.72	14.3	NA	NA	NA	<500	NA	NA	NA	NA	NP
MW-7	261.21	08/05/97	14.92	0.00	246.29	0.7	462	3.11	5.81	13.9	NA	NA	NA	265	713	<750	NA	NA	NP
MW-7	261.21	10/23/97	13.96	0.00	247.25	0.7	23.7	<0.5	0.689	1.62	NA	NA	NA	89.4	565	<750	NA	NA	NP
MW-7	261.21	03/11/98	14.30	0.00	246.91	0.8	19.2	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	NP
MW-7	261.21	06/30/98	15.88	0.00	245.33	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	09/25/98	NM	0.00	NM	NM	25.7	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP
MW-7	261.21	12/29/98	13.98	0.00	247.23	0.8	116	<2.5	<2.5	<5.0	NA	NA	NA	<250	<250	<750	NA	NA	NP
MW-7	261.21	03/09/99	13.59	0.00	247.62	1.1	73.5	0.502	0.559	1.52	NA	NA	NA	68.3	<250	<750	NA	NA	NP
MW-7	261.21	06/02/99	14.84	0.00	246.37	0.3	41.1	5.95	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-7	261.21	09/27/99	15.10	0.00	246.11	NM	0.544	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	NA	NA	NA	NP
MW-7	261.21	12/20/99	14.00	0.00	247.21	0.36	161	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	NA	NA	NA	NP
MW-7	261.21	03/16/00	14.55	0.00	246.66	0.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	06/30/00	16.08	0.00	245.13	2.9	1.20	<0.780	<0.500	<1.00	NA	NA	NA	<50.0	420	<750	NA	NA	NP
MW-7	261.21	09/27/00	16.53	0.00	244.68	0.35	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	323	<750	NA	NA	NP
MW-7	261.21	11/10/00	15.85	0.00	245.36	0.49	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<80.0	<250	<750	NA	NA	NP
MW-7	261.21	03/19/01	15.48	0.00	245.73	1.21	<0.500	0.821	<0.500	<1.00	55.9	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-7	261.21	06/27/01	16.11	0.00	245.10	0.84	<0.500	<0.500	<0.500	<1.00	35.2	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-7	261.21	09/26/01	16.67	0.00	244.54	0.61	<0.500	<0.500	<0.500	<1.00	57.8	NA	NA	<50.0	253	<750	NA	NA	NP
MW-7	261.21	12/03/01	14.29	0.00	246.92	0.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	12/09/03	14.50	0.00	246.71	1.2	<0.500	<0.500	<0.500	<1.00	35.6	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-7	261.21	04/07/04	14.97	0.00	246.24	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	11/16/04	15.24	0.00	245.97	0.98	<0.200	<0.500	<0.500	<1.00	20.6	NA	NA	84.3	<250	<500	<1.00	<1.00	NP
MW-7	261.21	03/29/05	14.41	0.00	246.80	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	06/22/05	15.39	0.00	245.82	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-7	261.21	09/12/05	16.18	0.00	245.03	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	12/06/05	14.47	0.00	246.74	1.4	644	8,200	942	5,250	<200	NA	NA	33,000	<243	<485	<1.00	<1.00	NP
MW-7	261.21	06/05/06	14.43	0.00	246.78	3.2	26.8	10.0	373	520	<20.0	NA	NA	4,590	<278	<556	<1.00	<1.00	NP
MW-7	261.21	09/29/06	21.71	0.00	239.50	NM	<0.500	0.85	27.3	86.3	NA	NA	NA	1,760	NA	NA	NA	NA	NP
MW-7	261.21	12/19/06	13.63	0.00	247.58	2.6	<0.500	<0.500	1.26	8.9	NA	NA	NA	189	NA	NA	NA	NA	NP
MW-7	261.21	09/24/07	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-7	261.21	12/31/07	14.54	0.00	246.67	2.55	<0.500	<0.500	<0.500	<3.00	3.1	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-7	261.21	01/30/08	14.66	0.00	246.55	1.24	<0.500	<0.500	<0.500	<3.00	2.73	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-7	261.21	04/03/08	19.26	0.00	241.95	0.88	<0.500	<0.500	<0.500	<3.00	5.63	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-7	261.21	07/02/08	18.34	0.00	242.87	1.09	<0.500	<0.500	<0.500	<3.00	3.96	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-7	261.21	10/03/08	20.13	0.00	241.08	2.0	<0.500	<0.500	<0.500	<3.00	2.23	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-7	261.21	01/05/09	18.50	0.00	242.71	1.8	<0.500	<0.500	<0.500	<3.00	2.63	NA	NA	<50.0	<248	<495	NA	NA	NP
MW-7	261.21	04/08/09	20.85	0.00	240.36	1.3	<0.500	<0.500	<0.500	<1.00	5.4	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
MW-7	261.21	07/08/09	16.45	0.00	244.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	10/06/09	16.98	0.00	244.23	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	01/05/10	14.77	0.00	246.44	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	05/25/10	15.45	0.00	245.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	08/19/10	16.30	0.00	244.91	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	12/07/10	14.88	0.00	246.33	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	01/26/11	13.84	0.00	247.37	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	06/16/11	15.05	0.00	246.16	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	09/22/11	18.12	0.00	243.09	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	12/06/11	19.71	0.00	241.50	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	03/08/12	15.50	0.00	245.71	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	06/19/12	15.09	0.00	246.12	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	09/21/12	16.37	0.00	244.84	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	12/11/12	13.45	0.00	247.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	261.21	03/20/13	14.20	0.00	247.01	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.96	10/05/94	18.11	0.00	241.85	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-8	259.96	02/15/95	15.07	0.00	244.89	NM	NA	NA	NA	NA	NA	NA	NA	NA	<250	NA	NA	NA	P, *
MW-8	259.96	04/10/95	15.07	0.00	244.89	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.96	07/20/95	16.96	0.00	243.00	NM	NA	NA	NA	NA	NA	NA	NA	NA	410	<750	NA	NA	P
MW-8	259.96	10/25/95	16.85	0.00	243.11	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	01/23/96	13.95	0.00	245.63	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, **
MW-8	259.58	04/17/96	15.46	0.00	244.12	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	07/08/96	15.89	0.00	243.69	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	10/10/96	16.70	0.00	242.88	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	03/11/97	14.19	0.00	245.39	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	05/29/97	14.41	0.00	245.17	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	08/05/97	14.10	0.00	245.48	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	10/23/97	14.17	0.00	245.41	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	03/11/98	14.00	0.00	245.58	4.2	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	



**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-8	259.58	06/30/98	17.58	0.00	242.00	8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/25/98	17.08	0.00	242.50	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/29/98	14.49	0.00	245.09	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	03/09/99	13.48	0.00	246.10	2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	06/02/99	15.36	0.00	244.22	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/27/99	16.79	0.00	242.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/20/99	14.38	0.00	245.20	0.41	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-8	259.58	03/16/00	14.80	0.00	244.78	2.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	06/30/00	16.35	0.00	243.23	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/27/00	17.24	0.00	242.34	1.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	11/10/00	16.80	0.00	242.78	0.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	03/19/01	16.05	0.00	243.53	0.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	06/27/01	16.62	0.00	242.96	1.24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/26/01	17.64	0.00	241.94	0.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/03/01	15.17	0.00	244.41	0.44	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	06/06/02	16.00	0.00	243.58	1.8	<0.500	<0.500	<0.500	<1.00	<2.00	<0.01	<1.00	<50.0	<250	<500	<1.00	<1.00	NP
MW-8	259.58	06/26/03	16.52	0.00	243.06	5.2	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-8	259.58	12/09/03	15.45	0.00	244.13	2.0	<0.500	<0.500	<0.500	<1.00	1.42	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-8	259.58	04/07/04	15.51	0.00	244.07	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	11/16/04	16.45	0.00	243.13	2.06	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-8	259.58	03/29/05	16.08	0.00	243.50	2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	06/22/05	16.12	0.00	243.46	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/12/05	17.15	0.00	242.43	0.5	<0.500	0.653	<0.500	<1.00	<1.00	NA	NA	<50.0	<281	<562	<1.00	<1.00	NP
MW-8	259.58	12/06/05	15.80	0.00	243.78	2.1	<0.500	1.07	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-8	259.58	06/05/06	15.08	0.00	244.50	2.2	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
MW-8	259.58	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/24/07	17.16	0.00	242.42	1.4	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	NA	NA	NP
MW-8	259.58	12/31/07	15.00	0.00	244.58	1.87	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-8	259.58	01/30/08	14.87	0.00	244.71	1.46	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<250	<500	NA	NA	NP
MW-8	259.58	04/02/08	18.07	0.00	241.51	1.36	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	NA	NA	NP
MW-8	259.58	07/01/08	18.34	0.00	241.24	3.32	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-8	259.58	10/03/08	19.32	0.00	240.26	4.7	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-8	259.58	01/06/09	18.14	0.00	241.44	2.6	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP
MW-8	259.58	04/08/09	17.70	0.00	241.88	2.5	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<245	<490	<1.00	<1.00	NP
MW-8	259.58	07/08/09	16.95	0.00	242.63	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	10/06/09	17.80	0.00	241.78	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	01/05/10	15.11	0.00	244.47	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	05/25/10	15.52	0.00	244.06	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	08/19/10	16.80	0.00	242.78	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/07/10	15.54	0.00	244.04	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	01/26/11	13.80	0.00	245.78	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-8	259.58	06/16/11	15.15	0.00	244.43	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/22/11	18.25	0.00	241.33	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/06/11	18.16	0.00	241.42	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	03/08/12	15.89	0.00	243.69	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	06/19/12	12.67	0.00	246.91	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	09/21/12	17.20	0.00	242.38	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	12/11/12	14.28	0.00	245.30	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	259.58	03/20/13	14.36	0.00	245.22	1.71	<0.50	<0.50	<0.50	<1.00	<0.50	NS	NS	<50	<250	<500	<10.0	NA	LF
MW-9	259.30	10/05/94	19.51	0.00	239.79	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	4.6	NA	P
MW-9	259.30	02/15/95	16.71	0.00	242.59	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	259.30	04/10/95	16.83	0.00	242.47	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	259.30	07/20/95	18.66	0.00	240.64	NM	NA	NA	NA	NA	NA	NA	NA	NA	280	NA	NA	NA	P
MW-9	259.30	10/25/95	18.29	0.00	241.01	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	01/23/96	15.47	0.00	243.49	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, **
MW-9	258.96	04/17/96	17.18	0.00	241.78	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	07/08/96	17.73	0.00	241.23	NM	NA	NA	NA	NA	NA	NA	NA	NA	<250	<750	NS	NA	P
MW-9	258.96	10/10/96	18.47	0.00	240.49	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	03/11/97	15.91	0.00	243.05	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	05/29/97	14.77	0.00	244.19	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	08/05/97	16.21	0.00	242.75	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	10/23/97	15.81	0.00	243.15	2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	03/11/98	15.88	0.00	243.08	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/30/98	17.97	0.00	240.99	2.5	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	NA	NA	NA	NP
MW-9	258.96	09/25/98	18.57	0.00	240.39	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	12/29/98	15.84	0.00	243.12	2.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	03/09/99	15.00	0.00	243.96	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/02/99	17.17	0.00	241.79	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	09/27/99	18.39	0.00	240.57	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	12/20/99	15.85	0.00	243.11	0.56	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-9	258.96	03/16/00	16.35	0.00	242.61	2.14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/30/00	18.05	0.00	240.91	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	09/27/00	18.87	0.00	240.09	5.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	11/10/00	18.04	0.00	240.92	0.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	03/19/01	17.50	0.00	241.46	1.07	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/27/01	18.08	0.00	240.88	0.41	<0.500	<0.500	<0.500	<1.00	<5.00	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-9	258.96	09/26/01	18.80	0.00	240.16	0.65	<0.500	<0.500	<0.500	<1.00	<5.00	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-9	258.96	12/03/01	16.25	0.00	242.71	1.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/06/02	17.72	0.00	241.24	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/26/03	18.07	0.00	240.89	4.7	<0.500	<0.500	<0.500	<1.00	<5.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-9	258.96	12/09/03	16.51	0.00	242.45	4.1	<0.500	<0.500	<0.500	<1.00	2.12	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-9	258.96	04/07/04	17.10	0.00	241.86	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	11/16/04	17.21	0.00	241.75	2.49	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-9	258.96	03/29/05	16.81	0.00	242.15	2.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/22/05	17.70	0.00	241.26	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	09/12/05	18.64	0.00	240.32	1.0	<0.500	5.91	<0.500	<1.00	<2.00	NA	NA	156	<312	<625	<1.00	<1.00	NP
MW-9	258.96	12/06/05	17.10	0.00	241.86	3.6	<0.500	0.85	<0.500	<1.00	1.07	NA	NA	<50.0	<248	<495	<1.00	<1.00	NP
MW-9	258.96	06/05/06	17.01	0.00	241.95	2.5	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-9	258.96	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	09/24/07	18.88	0.00	240.08	2.4	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-9	258.96	12/31/07	16.57	0.00	242.39	2.37	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-9	258.96	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-9	258.96	04/02/08	19.63	0.00	239.33	2.03	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<240	<481	NA	NA	NP
MW-9	258.96	07/01/08	19.99	0.00	238.97	2.43	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-9	258.96	10/03/08	20.74	0.00	238.22	1.8	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-9	258.96	01/06/09	19.11	0.00	239.85	3.6	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP
MW-9	258.96	04/08/09	18.98	0.00	239.98	3.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<248	<495	<1.00	<1.00	NP
MW-9	258.96	07/08/09	18.55	0.00	240.41	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	10/06/09	19.19	0.00	239.77	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	01/05/10	15.50	0.00	243.46	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	05/25/10	17.17	0.00	241.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	08/19/10	18.39	0.00	240.57	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	12/07/10	16.95	0.00	242.01	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	01/26/11	15.18	0.00	243.78	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/16/11	16.84	0.00	242.12	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	09/22/11	19.62	0.00	239.34	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	12/06/11	19.14	0.00	239.82	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	03/08/12	17.17	0.00	241.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	06/19/12	17.22	0.00	241.74	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	09/21/12	18.54	0.00	240.42	0.30	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<78.4	<392	<10.0	<10.0	NP
MW-9	258.96	12/11/12	15.20	0.00	243.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	258.96	03/20/13	15.83	0.00	243.13	1.39	<0.50	<0.50	<0.50	<1.00	<0.50	NS	NS	<50	<250	<500	<10.0	NA	LF
MW-10	256.56	10/05/94	17.52	0.00	239.04	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	8.7	NA	P
MW-10	256.56	02/15/95	14.70	0.00	241.86	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	04/10/95	14.91	0.00	241.65	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	07/20/95	16.67	0.00	239.89	NM	NA	NA	NA	NA	NA	NA	NA	NA	320	NA	NA	NA	P
MW-10	256.56	10/25/95	16.22	0.00	240.34	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	01/23/96	13.40	0.00	243.16	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	04/17/96	15.27	0.00	241.29	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	07/08/96	15.85	0.00	240.71	NM	NA	NA	NA	NA	NA	NA	NA	NA	382	<750	NS	NA	P
MW-10	256.56	10/10/96	16.50	0.00	240.06	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/11/97	13.91	0.00	242.65	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	05/29/97	12.36	0.00	244.20	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	08/05/97	16.49	0.00	240.07	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-10	256.56	10/23/97	13.82	0.00	242.74	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/11/98	14.09	0.00	242.47	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/30/98	16.38	0.00	240.18	9.9	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	NA	NA	NA	NP
MW-10	256.56	09/25/98	16.69	0.00	239.87	6.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	12/29/98	13.83	0.00	242.73	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/09/99	13.44	0.00	243.12	3.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/02/99	15.31	0.00	241.25	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	09/27/99	16.51	0.00	240.05	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	12/20/99	13.99	0.00	242.57	1.36	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/16/00	14.60	0.00	241.96	2.85	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
MW-10	256.56	06/30/00	16.17	0.00	240.39	2.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	09/27/00	17.02	0.00	239.54	4.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	11/10/00	16.02	0.00	240.54	2.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/19/01	15.55	0.00	241.01	2.71	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/27/01	16.11	0.00	240.45	3.19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	09/26/01	16.90	0.00	239.66	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	12/03/01	14.05	0.00	242.51	1.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/06/02	15.95	0.00	240.61	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/26/03	16.30	0.00	240.26	5.7	<0.500	<0.500	<0.500	<1.00	23.4	NA	NA	<50.0	<250	<500	1.06	<1.00	NP
MW-10	256.56	12/09/03	14.55	0.00	242.01	5.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
MW-10	256.56	04/07/04	15.36	0.00	241.20	3.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	11/16/04	16.00	0.00	240.56	2.08	<0.200	<0.500	<0.500	<1.00	16.8	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-10	256.56	03/29/05	14.88	0.00	241.68	2.3	<0.200	<0.500	<0.500	<1.00	13.8	<0.010	<0.500	<80.0	<250	<500	1.72	NA	NP
MW-10	256.56	06/22/05	15.95	0.00	240.61	1.3	0.240	<0.500	<0.500	<1.00	17.0	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
MW-10	256.56	09/12/05	16.80	0.00	239.76	1.6	<0.500	3.28	<0.500	<1.00	19.7	NA	NA	63.8	<333	<667	<1.00	<1.00	NP
MW-10	256.56	12/06/05	15.13	0.00	241.43	4.3	<0.500	<0.500	<0.500	<1.00	13.4	NA	NA	<50.0	<291	<581	<1.00	<1.00	NP
MW-10	256.56	06/05/06	15.22	0.00	241.34	1.9	<0.500	<0.500	<0.500	<1.00	2.49	NA	NA	<50.0	<248	<495	<1.00	<1.00	NP
MW-10	256.56	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	09/24/07	17.06	0.00	239.50	4.1	<0.500	<0.500	<0.500	<3.00	13.9	NA	NA	<50.0	<238	<476	NA	NA	NP
MW-10	256.56	12/31/07	14.74	0.00	241.82	2.01	<0.500	<0.500	<0.500	<3.00	1.55	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-10	256.56	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-10	256.56	04/02/08	17.65	0.00	238.91	3.65	<0.500	1.54	0.61	3.71	21.4	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-10	256.56	07/01/08	18.15	0.00	238.41	2.77	<0.500	<0.500	<0.500	<3.00	91.5	NA	NA	<50.0	<238	<476	NA	NA	NP
MW-10	256.56	10/03/08	18.83	0.00	237.73	3.3	<0.500	<0.500	<0.500	<3.00	110	NA	NA	<50.0	<236	<472	NA	NA	NP
MW-10	256.56	01/06/09	16.96	0.00	239.60	3.4	<0.500	<0.500	<0.500	<3.00	35.5	NA	NA	<50.0	<243	<485	NA	NA	NP
MW-10	256.56	04/08/09	16.88	0.00	239.68	5.3	<0.500	<0.500	<0.500	<1.00	4.59	NA	NA	<50.0	<245	<490	<1.00	<1.00	NP
MW-10	256.56	07/08/09	16.76	0.00	239.80	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	10/06/09	17.32	0.00	239.24	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	01/05/10	14.69	0.00	241.87	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	05/25/10	15.57	0.00	240.99	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	08/19/10	16.68	0.00	239.88	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-10	256.56	12/07/10	15.15	0.00	241.41	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	01/26/11	13.78	0.00	242.78	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/16/11	15.41	0.00	241.15	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	09/22/11	17.88	0.00	238.68	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	12/06/11	17.11	0.00	239.45	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/08/12	15.34	0.00	241.22	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	06/19/12	15.63	0.00	240.93	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	09/21/12	16.89	0.00	239.67	0.28	<1.0	<1.0	<1.0	<3.0	1.2	NA	NA	<50.0	<78.4	<392	<10.0	<10.0	NP
MW-10	256.56	12/11/12	13.59	0.00	242.97	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	256.56	03/20/13	14.45	0.00	242.11	3.33	<0.50	<0.50	<0.50	<1.00	<0.50	NS	NS	<50	<250	<500	<10.0	NA	LF
MW-11	NE	04/10/95	16.95	0.70	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	NE	07/20/95	19.04	0.02	NE	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	NE	10/25/95	17.98	0.02	NE	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	NE	01/23/96	13.35	SHEEN	NE	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	NE	04/17/96	20.50	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	261.85	07/08/96	20.55	5.05	245.34	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	10/10/96	16.25	1.25	246.60	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	03/11/97	16.39	0.92	246.20	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	05/29/97	12.99	0.17	249.00	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	08/05/97	14.81	0.70	247.60	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	10/23/97	20.04	0.11	241.90	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	03/11/98	15.00	SHEEN	246.85	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-11	261.85	06/30/98	13.26	SHEEN	248.59	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-11	261.85	09/25/98	16.49	0.02	245.38	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	12/29/98	14.43	SHEEN	247.42	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-11	261.85	03/09/99	10.35	0.00	251.50	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	261.85	06/02/99	16.34	0.02	245.53	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	09/27/99	15.80	0.00	246.05	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	261.85	12/20/99	15.21	0.00	246.64	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	261.85	03/16/00	11.90	0.00	249.95	0.29	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	15,000	24,900	NA	NA	NP
MW-11	261.85	06/30/00	17.35	SHEEN	244.50	1.9	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-11	261.85	09/27/00	18.20	0.06	243.70	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	11/10/00	17.28	0.02	244.59	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	03/19/01	17.16	0.01	244.70	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	06/27/01	16.80	0.00	245.05	0.19	386	32.4	30.4	777	29.6	NA	NA	11,500	700	<750	NA	NA	NP
MW-11	261.85	09/26/01	15.30	<0.01	246.55	0.21	122	13.0	18.4	692	<20.0	NA	NA	23,600	5,890	5,510	NA	NA	NP
MW-11	261.85	12/03/01	15.90	0.00	245.95	0.63	177	9.17	19.7	320	25.8	NA	NA	6,220	2,510	4,850	NA	NA	NP
MW-11	261.85	06/06/02	16.84	0.00	245.01	0.4	192	4.66	30.8	456	<2.00	<0.01	<1.00	5,710	5,170	6,790	16.0	4.95	NP
MW-11	261.85	06/26/03	17.49	0.04	244.39	NM	301	5.01	120	568	<20.0	NA	NA	9,170	72,800	107,000	8.71	3.09	NP
MW-11	261.85	12/09/03	16.19	0.00	245.66	1.4	99.2	3.00	48.9	314	14.8	NA	NA	4,650	1,610	2,910	2.94	1.14	NP
MW-11	261.85	04/07/04	16.48	0.02	245.39	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-11	261.85	11/16/04	17.00	0.00	244.85	NM	155	2.95	66.4	610	<10.0	NA	NA	29,000	72,200	28,500	32.1	2.06	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-11	261.85	03/29/05	16.15	0.00	245.70	1.3	138	<2.50	90.6	145	<10.0	<0.010	<2.50	6,310	42,200	22,600	12.3	NA	NP
MW-11	261.85	06/22/05	17.15	0.00	244.70	0.4	112	1.97	105	259	5.42	NA	NA	6,810	20,100	10,800	10.6	1.56	NP
MW-11	261.85	09/12/05	17.99	0.06	243.91	NM	217	<12.5	224	992	3.48	NA	NA	22,000	81,100	169,000	43	21.8	NP
MW-11	261.85	12/06/05	16.68	0.04	245.20	NM	148	<2.50	130	504	<5.00	NA	NA	13,000	85,600	178,000	33.1	3.1	NP
MW-11	261.85	06/05/06	16.55	0.10	245.38	NM	245	<5.00	149	529	<10.0	NA	NA	10,200	58,000	111,000	132	32.9	NP
MW-11	261.85	09/29/06	20.90	0.00	240.95	4.4	4.44	0.57	2.84	47.5	NA	NA	NA	4,840	NA	NA	NA	NA	NP
MW-11	261.85	12/19/06	15.25	0.00	246.60	3.0	5.0	<0.500	2.3	11.8	NA	NA	NA	1,630	NA	NA	NA	NA	NP
MW-11	261.85	09/24/07	14.42	0.06	247.48	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	261.85	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-11	261.85	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	261.85	04/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-11	261.85	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
MW-11	261.85	10/03/08	21.82	0.00	240.03	1.8	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	1,310	2,950	5,910	NA	NA	NP
MW-11	261.85	01/06/09	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-11	261.85	04/08/09	19.20	0.00	242.65	1.1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	69.5	349	833	5.67	1.48	NP
MW-11	261.85	07/08/09	18.09	0.00	243.76	1.4	0.370	<0.500	<0.500	<1.00	<2.00	NA	NA	175	714	1,370	3.90	1.07	NP
MW-11	261.85	10/06/09	18.77	0.00	243.08	2.5	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	410	<243	<485	2.6	<2.00	NP
MW-11	261.85	01/05/10	16.14	0.00	245.71	2.8	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	290	140	270	<2.00	<2.00	NP
MW-11	261.85	05/25/10	16.56	0.00	245.29	1.3	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	97	150	<240	2.1	<2.00	NP
MW-11	261.85	08/19/10	17.84	0.00	244.01	0.6	<0.50	<0.50	<0.50	1.00	<1.00	NA	NA	180	210	<240	3.2	<2.00	NP
MW-11	261.85	12/07/10	16.95	0.00	244.90	1.1	<0.50	<0.50	<0.50	1.1	<1.0	NA	NA	190	170	280	2.3	<2.0	NP
MW-11	261.85	01/26/11	14.91	0.00	246.94	2.6	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	81	210	<240	<2.0	<2.0	NP
MW-11	261.85	06/16/11	16.29	0.00	245.56	2.6	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	77	870	1,300	<2.0	<2.0	NP
MW-11	261.85	09/22/11	20.40	0.00	241.45	2.6	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	51	1,310	3,220	2.7	<2.0	NP
MW-11	261.85	12/06/11	18.11	0.00	243.74	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	292	726	<10.0	<10.0	NP
MW-11	261.85	03/08/12	17.40	0.00	244.45	6.1	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	179	<396	<10.0	<10.0	NP
MW-11	261.85	06/19/12	16.80	0.00	245.05	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<160	<800	<10.0	<10.0	NP
MW-11	261.85	09/21/12	18.15	0.00	243.70	0.17	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	111	268	777	<10.0	<10.0	NP
MW-11	261.85	12/11/12	14.80	0.00	247.05	1.1	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<100	<182	204	<3.0	<3.0	NP
MW-11	261.85	03/20/13	15.26	0.00	246.59	0.82	<0.50	<0.50	<0.50	<1.00	<0.50	NA	NA	<50	<250	<500	<10.0	NA	LF
MW-12	257.84	07/11/96	11.69	0.00	246.15	NM	624	174	41.6	164	NA	NA	NA	2,620	618	NA	NA	NA	P
MW-12	257.84	10/10/96	13.63	0.00	244.21	NM	264	2.98	3.23	60.4	NA	NA	NA	1,720	<250	<750	NA	NA	P
MW-12	257.84	03/11/97	8.65	0.00	249.19	1.9	4.02	1.01	<0.5	9.94	NA	NA	NA	541	402	<750	NA	NA	NP
MW-12	257.84	05/29/97	11.17	0.00	246.67	4.1	31.1	0.530	<0.5	16.7	NA	NA	NA	2,100	1,460	2,500	NA	NA	NP
MW-12	257.84	08/05/97	11.68	0.00	246.16	5.3	193	5.16	5.19	87.9	NA	NA	NA	2,010	712	<750	NA	NA	NP
MW-12	257.84	10/23/97	11.41	0.00	246.43	4.6	71.7	<0.5	<0.5	5.78	NA	NA	NA	358	996	1,840	NA	NA	NP
MW-12	257.84	03/11/98	10.50	0.00	247.34	4.1	204	9.30	<1.0	18	NA	NA	NA	398	<250	<750	NA	NA	
MW-12	257.84	06/30/98	13.12	0.00	244.72	0.4	134	<2.50	<5.00	<30.0	NA	NA	NA	8,070	289	NA	NA	NA	NP
MW-12	257.84	09/25/98	13.57	0.06	244.32	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	12/29/98	11.37	0.00	246.47	1.2	85.9	<1.0	<1.0	5.80	NA	NA	NA	313	<250	<750	NA	NA	NP
MW-12	257.84	03/09/99	10.67	0.00	247.17	0.6	62.1	1.71	<3.0	<41.0	NA	NA	NA	6,920	770	1,810	NA	NA	NP
MW-12	257.84	06/02/99	12.48	SHEEN	245.36	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-12	257.84	09/27/99	13.76	0.26	244.29	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	12/20/99	11.64	0.40	246.52	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	03/16/00	11.75	0.01	246.10	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	06/30/00	13.45	SHEEN	244.39	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
MW-12	257.84	09/27/00	14.00	0.16	243.97	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	11/10/00	13.28	0.25	244.76	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	03/19/01	13.20	0.20	244.80	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	06/27/01	13.95	0.03	243.91	NM	2,920	452	275	1,360	350	NA	NA	33,600	679	<750	NA	NA	NP
MW-12	257.84	09/26/01	14.10	0.02	243.76	0.14	619	1,380	966	6,890	<50.0	NA	NA	3,630,000	23,900	37,800	NA	NA	NP
MW-12	257.84	12/03/01	12.16	0.03	245.70	0.71	4,180	323	315	1,580	386	NA	NA	27,600	4,450	7,690	NA	NA	NP
MW-12	257.84	06/06/02	13.30	0.05	244.58	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
MW-12	257.84	06/26/03	13.52	0.27	244.54	NM	712	878	258	1,780	<20.0	NA	NA	17,000	62,300	87,100	315	4.93	NP
MW-12	257.84	12/09/03	12.18	0.02	245.68	1.1	2,520	338	142	1,320	114	NA	NA	18,000	2,730	4,960	4.77	4.84	NP
MW-12	257.84	04/07/04	12.71	0.00	245.13	1.3	641	655	201	1,590	<10.0	NA	NA	19,200	204,000	314,000	536	8.61	NP
MW-12	257.84	11/16/04	13.00	0.20	245.00	NM	757	1,230	283	2,090	<20.0	NA	NA	25,800	111,000	27,800	9.64	2.92	NP
MW-12	257.84	03/29/05	12.08	0.08	245.82	2.2	462	655	250	2,470	<40.0	<0.010	<10.0	18,600	2,150,000	590,000	313	NA	NP
MW-12	257.84	06/22/05	13.04	0.03	244.82	NM	1,190	434	350	2,320	<20.0	NA	NA	102,000	26,900	8,180	38	3.61	NP
MW-12	257.84	09/12/05	13.84	0.23	244.18	NM	758	631	250	1480	<2.00	NA	NA	12,900	242,000	561,000	37.5	4.64	NP
MW-12	257.84	12/06/05	12.26	0.11	245.67	NM	481	1,480	1,560	11,600	<100	NA	NA	18,800	145,000	290,000	76.3	12	NP
MW-12	257.84	06/05/06	12.11	0.01	245.74	NM	721	61.8	190	1,170	<20.0	NA	NA	11,400	14,300	27,700	3.23	1.52	NP
MW-12	257.84	09/29/06	17.50	0.51	240.75	NM	272	4.79	195	1,020	NA	NA	NA	16,700	NA	NA	NA	NA	NP
MW-12	257.84	12/19/06	10.87	0.01	246.98	NM	346	36.6	81.0	620	NA	NA	NA	41,400	NA	NA	NA	NA	NP
MW-12	257.84	09/24/07	14.30	0.31	243.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	257.84	12/31/07	12.12	0.00	245.72	2.30	378	7.48	104	503	<1.00	NA	NA	10,800	1,440	3,260	NA	NA	NP
MW-12	257.84	01/29/08	11.92	0.00	245.92	3.47	409	8.39	96.4	584	<1.00	NA	NA	11,100	619	1,510	NA	NA	NP
MW-12	257.84	04/03/08	19.67	0.45	238.53	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	257.84	07/01/08	17.26	0.19	240.73	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	257.84	10/03/08	19.78	1.00	238.86	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	257.84	01/06/09	12.93	0.00	244.91	1.4	4.2	0.89	22.5	186	<1.00	NA	NA	6,250	358	744	NA	NA	NP
MW-12	257.84	04/08/09	17.04	0.00	240.80	1.2	0.949	0.647	4.0	52.6	<1.00	NA	NA	4,420	722	1,170	36	7.86	NP
MW-12	257.84	07/08/09	13.67	0.00	244.17	1.9	<1.00	<2.50	<2.50	8.45	<10.0	NA	NA	1,790	<250	<500	8.45	5.61	NP
MW-12	257.84	10/06/09	14.25	0.00	243.59	2.3	1.9	<1.00	1.0	9.3	<1.00	NA	NA	3,600	2,210	2,040	4.2	<2.00	NP
MW-12	257.84	01/06/10	12.09	0.00	245.75	4.8	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	3,700	5,500	1,100	4.8	2.0	NP
MW-12	257.84	05/25/10	12.37	0.00	245.47	2.0	<0.50	<0.50	<0.50	4.4	<1.00	NA	NA	2,900	3,800	2,900	2.6	<2.00	NP
MW-12	257.84	08/19/10	13.30	0.00	244.54	0.9	0.89	0.59	0.51	3.4	<1.00	NA	NA	1,800	2,000	380	3.5	<2.00	NP
MW-12	257.84	12/07/10	12.28	0.00	245.56	2.2	1.9	0.66	0.51	3.6	<1.0	NA	NA	2,300	1,700	1,300	2.3	<2.0	NP
MW-12	257.84	01/26/11	10.83	0.00	247.01	1.9	<0.50	<0.50	<0.50	1.2	<1.0	NA	NA	610	1,100	2,900	<2.0	<2.0	NP
MW-12	257.84	06/16/11	12.20	0.00	245.64	1.8	<0.50	<0.50	<0.50	1.7	<1.0	NA	NA	860	2,600	1,900	<2.0	<2.0	NP
MW-12	257.84	09/22/11	16.41	0.00	241.43	1.7	1.5	<0.50	0.69	7.0	<1.0	NA	NA	1,800	8,770	15,200	21	<2.0	NP
MW-12	257.84	12/06/11	17.17	0.00	240.67	NM	2.5	<1.0	1.3	<3.0	<1.0	NA	NA	9,590	14,500	38,600	<10.0	<10.0	NP
MW-12	257.84	03/08/12	14.07	0.00	243.77	6.1	1.7	<1.0	<1.0	<3.0	<1.0	NA	NA	1,460	298	<400	<10.0	<10.0	NP
MW-12	257.84	06/19/12	12.23	0.00	245.61	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	266	<800	<10.0	<10.0	NP

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**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
MW-12	257.84	09/21/12	13.63	0.00	244.21	0.17	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	968	1,030	2,860	<10.0	<10.0	NP
MW-12	257.84	12/11/12	10.10	0.00	247.74	1.8	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<100	542	1,890	<3.0	<3.0	NP
MW-12	257.84	03/20/13	10.83	0.00	247.01	1.34	<0.50	<0.50	<0.50	<1.00	<0.50	NA	NA	110	<250	<500	<10.0	NA	LF
VP-1	257.42	10/05/94	15.20	0.00	242.22	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	27	NA	P
VP-1	257.42	02/15/95	12.47	0.00	244.95	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<1,000	<2.0	NA	P, *, a
VP-1	257.42	04/11/95	13.44	0.00	243.98	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
VP-1	257.42	07/20/95	14.00	0.00	243.42	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
VP-1	257.42	10/26/95	14.08	0.00	243.34	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
VP-1	257.03	01/23/96	11.97	0.00	245.06	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P, **
VP-1	257.03	04/17/96	12.80	0.00	244.23	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
VP-1	257.03	07/08/96	11.45	0.00	245.58	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
VP-1	257.03	10/10/96	14.17	0.00	242.86	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	03/11/97	12.10	0.00	244.93	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	05/29/97	11.11	0.00	245.92	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	08/05/97	12.01	0.00	245.02	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	10/23/97	14.11	0.00	242.92	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	03/11/98	9.88	0.00	247.15	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	06/30/98	14.14	0.00	242.89	8.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	09/25/98	14.08	0.00	242.95	6.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	12/29/98	11.50	0.00	245.53	11.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	03/09/99	10.55	0.00	246.48	11.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	06/02/99	12.35	0.00	244.68	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	09/27/99	13.72	0.00	243.31	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	12/20/99	11.40	0.00	245.63	4.8	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
VP-1	257.03	03/16/00	12.60	0.00	244.43	4.04	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
VP-1	257.03	06/30/00	13.54	0.00	243.49	6.1	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
VP-1	257.03	09/27/00	14.49	0.00	242.54	4.80	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
VP-1	257.03	11/10/00	13.91	0.00	243.12	5.41	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<80.0	<250	<750	NA	NA	NP
VP-1	257.03	03/19/01	13.40	0.00	243.63	5.61	<0.500	<0.500	<0.500	<1.00	6.23	NA	NA	<50.0	<250	<750	NA	NA	NP
VP-1	257.03	06/27/01	13.75	0.00	243.28	4.61	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	09/26/01	14.25	0.00	242.78	3.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	12/03/01	12.48	0.00	244.55	1.28	<0.500	<0.500	<0.500	<1.00	155	NA	NA	<50.0	<250	<500	NA	NA	NP
VP-1	257.03	06/06/02	13.30	0.00	243.73	6.2	<0.500	<0.500	<0.500	<1.00	3.57	<0.01	<1.00	<50.0	<250	<500	17.9	<1.00	NP
VP-1	257.03	06/26/03	13.85	0.00	243.18	5.1	0.521	<0.500	1.05	5.25	5.55	NA	NA	137	<250	<500	6.48	<1.00	NP
VP-1	257.03	12/09/03	12.70	0.00	244.33	4.4	<0.500	<0.500	<0.500	<1.00	34.1	NA	NA	<50.0	<250	<500	1.44	<1.00	NP
VP-1	257.03	04/07/04	12.43	0.00	244.60	3.5	<0.500	<0.500	<0.500	<1.00	1.19	NA	NA	<50.0	<250	<500	3.21	<1.00	NP
VP-1	257.03	11/16/04	13.15	0.00	243.88	4.94	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	34.2	<1.00	NP
VP-1	257.03	03/29/05	12.40	0.00	244.63	5.0	<0.200	<0.500	<0.500	<1.00	<2.00	<0.010	<0.500	<80.0	<250	<500	<1	NA	NP
VP-1	257.03	06/22/05	12.98	0.00	244.05	4.2	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	1.21	<1.00	NP
VP-1	257.03	09/12/05	14.05	0.00	242.98	3.5	<0.500	<0.500	<0.500	<1.00	<2.00	NA	NA	<50.0	<287	<575	<1.00	<1.00	NP
VP-1	257.03	12/06/05	13.65	0.00	243.38	4.2	<0.500	<0.500	<0.500	<1.00	6.63	NA	NA	<50.0	<245	<490	<1.00	<1.00	NP
VP-1	257.03	06/05/06	11.81	0.00	245.22	4.4	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<248	<495	2.72	<1.00	NP



**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
VP-1	257.03	09/29/06	17.48	0.00	239.55	5.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	12/19/06	11.17	0.00	245.86	2.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-1	257.03	09/24/07	13.87	0.00	243.16	5.8	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	NA	NA	NP
VP-1	257.03	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
VP-1	257.03	01/30/08	13.08	0.00	243.95	4.53	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<248	<495	1.09	NA	NP
VP-1	257.03	04/02/08	15.55	0.00	241.48	2.54	<0.500	1.1	<0.500	<3.00	1.56	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-1	257.03	07/01/08	15.18	0.00	241.85	5.28	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-1	257.03	10/03/08	17.58	0.00	239.45	3.0	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-1	257.03	01/06/09	17.07	0.00	239.96	3.3	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-1	257.03	04/08/09	16.64	0.00	240.39	7.1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<248	<495	12	<1.00	NP
VP-1	257.03	07/08/09	14.08	0.00	242.95	8.7	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<245	<490	7.86	<1.00	NP
VP-1	257.03	10/06/09	14.85	0.00	242.18	8.1	<1.00	4.1	6.7	41	<1.00	NA	NA	650	<238	<476	<2.00	<2.00	NP
VP-1	257.03	01/06/10	13.51	0.00	243.52	3.7	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	<50.0	<120	<240	<2.00	<2.00	NP
VP-1	257.03	05/25/10	13.03	0.00	244.00	6.4	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	<50.0	<120	<240	<2.00	<2.00	NP
VP-1	257.03	08/19/10	13.93	0.00	243.10	5.4	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	<50.0	<120	<240	2.3	<2.00	NP
VP-1	257.03	12/07/10	13.07	0.00	243.96	8.4	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<120	<240	<2.0	<2.0	NP
VP-1	257.03	01/26/11	11.40	0.00	245.63	7.2	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<120	<240	<2.0	<2.0	NP
VP-1	257.03	06/16/11	13.09	0.00	243.94	8.4	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	140	250	2.2	<2.0	NP
VP-1	257.03	09/22/11	15.67	0.00	241.36	5.5	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<95.2	<476	<2.0	<2.0	NP
VP-1	257.03	12/06/11	16.10	0.00	240.93	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<75.5	<377	<10.0	<10.0	NP
VP-1	257.03	03/08/12	14.32	0.00	242.71	6.1	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<82.5	<412	<10.0	<10.0	NP
VP-1	257.03	06/19/12	13.25	0.00	243.78	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<160	<800	<10.0	<10.0	NP
VP-1	257.03	09/21/12	14.25	0.00	242.78	0.60	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<80.8	<404	10.9	<10.0	NP
VP-1	257.03	12/11/12	13.43	0.00	243.60	4.5	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<100	<189	<189	<3.0	<3.0	NP
VP-1	257.03	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	257.03	10/05/94	14.64	0.00	242.39	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	8.2	NA	P
VP-2	257.03	02/15/95	14.77	0.00	242.26	NM	NA	NA	NA	NA	NA	NA	NA	NA	<250	NA	NA	NA	P, *
VP-2	257.03	04/10/95	13.24	0.00	243.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	257.03	07/20/95	13.43	0.00	243.60	NM	NA	NA	NA	NA	NA	NA	NA	NA	<250	NA	NA	NA	P
VP-2	257.03	10/26/95	13.67	0.00	243.36	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	01/23/96	11.80	0.00	244.71	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, **
VP-2	256.51	04/17/96	14.95	0.00	241.56	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	07/08/96	12.40	0.00	244.11	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	10/10/96	16.96	0.00	239.55	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P
VP-2	256.51	03/11/97	10.98	0.00	245.53	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	05/29/97	10.03	0.00	246.48	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	08/05/97	13.08	0.00	243.43	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	10/23/97	14.21	0.00	242.30	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	03/11/98	10.11	0.00	246.40	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	06/30/98	13.74	0.00	242.77	10.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/25/98	13.67	0.00	242.84	5.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/29/98	11.00	0.00	245.51	2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
VP-2	256.51	03/09/99	10.19	0.00	246.32	7.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	06/02/99	11.99	0.00	244.52	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/27/99	13.55	0.00	242.96	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/20/99	10.97	0.00	245.54	1.88	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	03/16/00	11.66	0.00	244.85	2.35	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
VP-2	256.51	06/30/00	12.76	0.00	243.75	4.2	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
VP-2	256.51	09/27/00	14.68	0.00	241.83	2.75	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
VP-2	256.51	11/10/00	13.79	0.00	242.72	3.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	03/19/01	13.70	0.00	242.81	2.53	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	06/27/01	13.10	0.00	243.41	3.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/26/01	13.86	0.00	242.65	1.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/03/01	13.05	0.00	243.46	1.73	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	NA	NA	NP
VP-2	256.51	06/06/02	12.70	0.00	243.81	4.2	<0.500	<0.500	<0.500	<1.00	<2.00	<0.01	<1.00	<50.0	<250	<500	5.21	<1.00	NP
VP-2	256.51	06/26/03	15.34	0.00	241.17	5.5	<0.500	<0.500	<0.500	<1.00	22.9	NA	NA	<50.0	<250	<500	9.19	<1.00	NP
VP-2	256.51	12/09/03	13.08	0.00	243.43	6.9	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
VP-2	256.51	04/07/04	12.35	0.00	244.16	3.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	11/16/04	13.15	0.00	243.36	3.20	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	<250	<500	1.35	<1.00	NP
VP-2	256.51	03/29/05	12.40	0.00	244.11	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	06/22/05	15.51	0.00	241.00	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/12/05	16.72	0.00	239.79	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/06/05	12.80	0.00	243.71	4.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<248	<495	<1.00	<1.00	NP
VP-2	256.51	06/05/06	11.94	0.00	244.57	1.1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<245	<490	<1.00	<1.00	NP
VP-2	256.51	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/24/07	15.29	0.00	241.22	7.4	<0.500	<0.500	<0.500	<3.00	8.74	NA	NA	<50.0	<243	<485	NA	NA	NP
VP-2	256.51	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
VP-2	256.51	01/30/08	14.11	0.00	242.40	1.93	<0.500	<0.500	<0.500	<3.00	7.59	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-2	256.51	04/02/08	16.37	0.00	240.14	1.24	<0.500	0.79	<0.500	<3.00	3.89	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-2	256.51	07/01/08	13.17	0.00	243.34	2.99	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-2	256.51	10/03/08	14.10	0.00	242.41	4.7	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-2	256.51	01/06/09	17.02	0.00	239.49	4.8	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
VP-2	256.51	04/08/09	13.72	0.00	242.79	3.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<240	<481	20.5	<1.00	NP
VP-2	256.51	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/22/11	16.46	0.00	240.05	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
VP-2	256.51	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VP-2	256.51	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	04/11/95	6.57	0.00	255.19	NM	1.4	<0.5	<0.5	3.8	NA	NA	NA	57	NA	NA	NA	NA	P
BV-1	261.76	07/20/95	7.38	0.00	254.38	NM	2.7	<0.5	1	9.5	NA	NA	NA	96	320	NA	NA	NA	P
BV-1	261.76	10/26/95	6.98	0.00	254.78	NM	94	30	26	160	NA	NA	NA	2,500	NA	NA	NA	NA	P
BV-1	261.76	01/23/96	5.49	0.00	256.27	NM	4.5	0.65	1.6	17	NA	NA	NA	200	<250	<750	NA	NA	P
BV-1	261.76	04/17/96	6.75	0.00	255.01	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	07/08/96	7.00	0.00	254.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	10/10/96	7.36	0.00	254.40	NM	1.20	<0.5	0.614	4.72	NA	NA	NA	94.3	<250	<750	NA	NA	P
BV-1	261.76	03/11/97	5.12	0.00	256.64	0.5	2.77	0.509	1.16	10.4	NA	NA	NA	86.5	NA	NA	NA	NA	NP
BV-1	261.76	05/29/97	6.02	0.00	255.74	0.9	3.81	0.656	1.95	19.1	NA	NA	NA	204	<250	<750	NA	NA	NP
BV-1	261.76	08/05/97	6.92	0.00	254.84	3.9	1.24	<0.5	0.588	4.42	NA	NA	NA	85.1	<250	<750	NA	NA	NP
BV-1	261.76	10/23/97	7.17	0.00	254.59	1.9	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
BV-1	261.76	03/11/98	5.65	0.00	256.11	3.1	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	
BV-1	261.76	06/30/98	7.34	0.00	254.42	0.6	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
BV-1	261.76	09/25/98	8.01	0.00	253.75	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/29/98	7.00	0.00	254.76	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	03/09/99	6.51	0.00	255.25	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/02/99	7.30	0.00	254.46	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/27/99	7.62	0.00	254.14	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/20/99	6.40	0.00	255.36	1.43	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	03/16/00	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/30/00	7.38	0.00	254.38	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/27/00	7.87	0.00	253.89	0.61	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	11/10/00	6.75	0.00	255.01	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	03/19/01	6.54	0.00	255.22	0.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/27/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/26/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-1	261.76	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	261.76	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	04/10/95	8.83	0.00	252.59	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	07/20/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	10/26/95	9.67	0.00	251.75	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	01/23/96	7.76	0.00	253.66	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	04/17/96	9.10	0.00	252.32	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	07/08/96	9.25	0.00	252.17	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	10/10/96	9.63	0.00	251.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/11/97	7.31	0.00	254.11	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	05/29/97	7.01	0.00	254.41	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	08/05/97	8.06	0.00	253.36	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	10/23/97	11.03	0.00	250.39	2.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/11/98	7.76	0.00	253.66	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/30/98	9.29	0.00	252.13	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/25/98	10.16	0.00	251.26	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/29/98	8.92	0.00	252.50	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/09/99	8.33	0.00	253.09	2.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/02/99	9.32	0.00	252.10	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-2	261.42	09/27/99	9.37	0.00	252.05	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/20/99	7.59	0.00	253.83	0.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/16/00	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/30/00	9.40	0.00	252.02	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/27/00	10.08	0.00	251.34	0.56	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	11/10/00	8.86	0.00	252.56	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/19/01	8.78	0.00	252.64	1.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/27/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/26/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-2	261.42	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	261.42	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.60	03/03/95	11.40	0.00	250.20	NM	NA	NA	NA	NA	NA	NA	NA	NA	14,000	NA	NA	NA	P
BV-3	261.60	04/10/95	11.79	0.00	249.81	NM	5,000	4,500	690	3,300	NA	NA	NA	36,000	NA	NA	NA	NA	P
BV-3	261.60	07/20/95	11.15	0.00	250.45	NM	6,000	8,100	1,400	8,500	NA	NA	NA	62,000	9,800	NA	NA	NA	P
BV-3	261.60	10/26/95	11.44	0.00	250.16	NM	6,600	8,800	1,700	13,000	NA	NA	NA	82,000	5,100	2,600	NA	NA	P
BV-3	261.60	01/23/96	10.65	0.00	250.95	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.60	04/17/96	6.61	0.00	254.99	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	NE	07/08/96	10.72	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	10/10/96	8.40	0.00	253.07	NM	684	574	84.7	1,940	NA	NA	NA	13,700	3,730	<750	NA	NA	P
BV-3	261.47	03/11/97	12.07	0.00	249.40	0.6	2,140	6,610	989	7,370	NA	NA	NA	40,700	5,810	<750	NA	NA	NP
BV-3	261.47	05/29/97	9.13	0.00	252.34	0.7	0.638	<0.5	<0.5	<1.0	NA	NA	NA	<50	414	<750	NA	NA	NP
BV-3	261.47	08/05/97	9.53	0.00	251.94	1.1	8.75	3.14	3.01	53.1	NA	NA	NA	556	1,440	<750	NA	NA	NP
BV-3	261.47	10/23/97	9.06	0.00	252.41	0.8	<0.5	<0.5	<0.5	1.63	NA	NA	NA	<50	661	<750	NA	NA	NP
BV-3	261.47	03/11/98	7.00	0.00	254.47	0.9	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	
BV-3	261.47	06/30/98	7.68	0.00	253.79	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/25/98	8.00	0.00	253.47	4.7	644	1,180	638	4,210	NA	NA	NA	18,300	524	<750	NA	NA	NP
BV-3	261.47	12/29/98	9.34	0.00	252.13	1.7	0.997	<0.5	<0.5	10.2	NA	NA	NA	181	<250	<750	NA	NA	NP
BV-3	261.47	03/09/99	5.39	0.00	256.08	4.5	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP
BV-3	261.47	06/02/99	12.85	0.00	248.62	0.4	206	178	235	926	NA	NA	NA	5,380	<250	<750	NA	NA	NP
BV-3	261.47	09/27/99	9.55	0.00	251.92	NM	<0.500	<0.500	<0.500	4.93	NA	NA	NA	94.2	<250	NA	NA	NA	NP
BV-3	261.47	12/20/99	9.90	0.00	251.57	1.63	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<282	NA	NA	NA	NP
BV-3	261.47	03/16/00	8.15	0.00	253.32	1.65	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/30/00	12.16	0.00	249.31	2.9	77.6	5.21	10.9	148	NA	NA	NA	1,110	507	<750	NA	NA	NP
BV-3	261.47	09/27/00	14.52	0.00	246.95	0.72	62.3	4.47	119	333	NA	NA	NA	3,170	863	<750	NA	NA	NP
BV-3	261.47	11/10/00	13.39	0.00	248.08	0.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	03/19/01	13.30	0.00	248.17	1.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/27/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/26/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-3	261.47	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-3	261.47	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	04/10/95	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	07/20/95	DRY	0.00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	10/26/95	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	01/23/96	9.51	0.00	251.65	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	04/17/96	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	07/08/96	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	10/10/96	8.35	0.00	252.81	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	03/11/97	9.96	0.00	251.20	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	05/29/97	8.40	0.00	252.76	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	08/05/97	9.40	0.00	251.76	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	10/23/97	12.16	0.00	249.00	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	03/11/98	8.86	0.00	252.30	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/30/98	6.54	0.00	254.62	5.1	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
BV-4	261.16	09/25/98	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/29/98	9.01	0.00	252.15	3.9	7.59	<1.0	<1.0	<2.0	NA	NA	NA	<100	<250	<750	NA	NA	NP
BV-4	261.16	03/09/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/02/99	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/27/99	9.58	0.00	251.58	NM	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	NA	NA	NA	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-4	261.16	12/20/99	DRY	DRY	DRY	1.35	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	03/16/00	6.47	0.00	254.69	1.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/30/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	09/27/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	11/10/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	03/19/01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-4	261.16	06/27/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/26/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS



**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-4	261.16	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-4	261.16	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	03/03/95	9.16	0.00	252.59	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	04/10/95	9.21	0.00	252.54	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	07/20/95	9.45	0.00	252.30	NM	3,700	110	540	2,200	NA	NA	NA	26,000	18,000	30,000	NA	NA	P
BV-5	261.75	10/26/95	9.76	0.00	251.99	NM	4,000	520	440	2,100	NA	NA	NA	42,000	8,200	12,000	NA	NA	P
BV-5	261.75	01/23/96	8.49	0.00	253.26	NM	4,400	970	760	4,400	NA	NA	NA	1,300,000	7,100	8,500	NA	NA	P
BV-5	261.75	04/17/96	9.32	0.00	252.43	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	07/08/96	10.00	0.00	251.75	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	10/10/96	10.25	SHEEN	251.50	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
BV-5	261.75	03/11/97	7.96	SHEEN	253.79	0.5	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
BV-5	261.75	05/29/97	6.91	SHEEN	254.84	2.9	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
BV-5	261.75	08/05/97	9.75	SHEEN	252.00	9.6	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
BV-5	261.75	10/23/97	9.63	0.00	252.12	3.9	1.57	<0.5	3.31	3.34	NA	NA	NA	771	1,150	4,130	NA	NA	NP
BV-5	261.75	03/11/98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	06/30/98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	09/25/98	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	12/29/98	10.04	0.00	251.71	2.6	79.1	<1.25	41.8	8.45	NA	NA	NA	848	<250	<750	NA	NA	NP
BV-5	261.75	03/09/99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	06/02/99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	09/27/99	10.41	0.00	251.34	NM	68.7	<1.00	25.1	<2.00	NA	NA	NA	809	3500	NA	NA	NA	NP
BV-5	261.75	12/20/99	9.30	0.00	252.45	0.23	53.7	2.05	3.47	9.94	NA	NA	NA	416	506	NA	NA	NA	NP
BV-5	261.75	03/16/00	10.00	0.00	251.75	0.39	145	<0.500	101	43.3	NA	NA	NA	3,900	13,000	<8,250	NA	NA	NP
BV-5	261.75	06/30/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	09/27/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	11/10/00	9.55	0.00	252.20	1.46	242	993	242	876	NA	NA	NA	9,340	<250	<750	NA	NA	NP
BV-5	261.75	03/19/01	9.47	0.00	252.28	0.57	84.4	100	99.5	289	<5.00	NA	NA	4,540	781	<750	NA	NA	NP
BV-5	261.75	06/27/01	10.30	0.00	251.45	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	09/26/01	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-5	261.75	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-5	261.75	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-5	261.75	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	04/10/95	8.68	0.00	252.92	NM	160	4.4	0.61	8.9	NA	NA	NA	120	NA	NA	NA	NA	P
BV-6	261.60	07/20/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	10/26/95	9.13	0.00	252.47	NM	98	2.4	<0.5	3.3	NA	NA	NA	<50	NA	NA	NA	NA	P
BV-6	261.60	01/23/96	7.77	0.00	253.83	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	04/17/96	8.88	0.00	252.72	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	07/08/96	9.10	0.00	252.50	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	10/10/96	9.30	0.00	252.30	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/11/97	8.05	0.00	253.55	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	05/29/97	7.90	0.00	253.70	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	08/05/97	8.19	0.00	253.41	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	10/23/97	11.27	0.00	250.33	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/11/98	9.58	0.00	252.02	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/30/98	10.32	0.00	251.28	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/25/98	9.82	0.00	251.78	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/29/98	8.94	0.00	252.66	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/09/99	9.38	0.00	252.22	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/02/99	9.25	0.00	252.35	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/27/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/20/99	8.48	0.00	253.12	1.21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-6	261.60	03/16/00	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/30/00	9.38	0.00	252.22	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/27/00	9.85	0.00	251.75	0.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	11/10/00	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/19/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/27/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/26/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-6	261.60	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-6	261.60	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	04/10/95	17.11	1.61	246.29	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	07/20/95	17.97	1.63	245.44	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	10/25/95	16.45	0.01	245.67	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
BV-7	262.11	01/23/96	14.79	NM	247.32	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
BV-7	262.11	04/17/96	13.87	0.00	248.24	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	07/08/96	12.00	0.00	250.11	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	10/10/96	13.92	0.01	248.20	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
BV-7	262.11	03/11/97	14.98	0.00	247.13	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	05/29/97	12.06	0.00	250.05	0.9	289	281	4.7	907	NA	NA	NA	28,300	28,500	62,700	NA	NA	NP
BV-7	262.11	08/05/97	12.67	0.00	249.44	1.4	686	441	<12.5	751	NA	NA	NA	12,500	32,700	75,900	NA	NA	NP
BV-7	262.11	10/23/97	12.54	0.00	249.57	0.8	769	1,350	15.2	1,440	NA	NA	NA	16,200	42,400	134,000	NA	NA	NP
BV-7	262.11	03/11/98	11.60	0.00	250.51	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/30/98	12.74	SHEEN	249.37	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
BV-7	262.11	09/25/98	16.02	0.00	246.09	1.4	6,460	7,020	750	11,300	NA	NA	NA	209,000	53,300	148,000	NA	NA	NP
BV-7	262.11	12/29/98	13.03	0.00	249.08	3.1	7.33	14.9	<4.0	<160	NA	NA	NA	14,700	35,700	78,800	NA	NA	NP
BV-7	262.11	03/09/99	10.05	0.00	252.06	NM	16.8	30.8	4.32	54.5	NA	NA	NA	1,490	53,700	133,000	NA	NA	NP
BV-7	262.11	06/02/99	15.26	0.00	246.85	NM	4,790	3,510	91.8	1,410	NA	NA	NA	18,100	57,900	122,000	NA	NA	NP
BV-7	262.11	09/27/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/20/99	11.88	0.00	250.23	1.9	29.3	2.01	1.34	78.8	NA	NA	NA	580	<250	NA	NA	NA	NP
BV-7	262.11	03/16/00	11.65	0.00	250.46	1.77	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/30/00	16.58	0.00	245.53	1.9	1,290	249	<25.0	826	NA	NA	NA	6,130	122,000	271,000	NA	NA	NP
BV-7	262.11	09/27/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
BV-7	262.11	11/10/00	16.81	0.00	245.30	0.69	1,910	385	91.1	1,220	NA	NA	NA	24,400	335,000	377,000	NA	NA	NP
BV-7	262.11	03/19/01	16.85	0.00	245.26	0.99	1,880	524	103	2,110	57.2	NA	NA	13,100	3,060	<938	NA	NA	NP
BV-7	262.11	06/27/01	16.50	0.00	245.61	0.39	1,250	515	89.1	2,070	52.9	NA	NA	11,900	2,940	<750	NA	NA	NP, d
BV-7	262.11	09/26/01	14.50	0.00	247.61	0.66	645	113	49.5	739	<50.0	NA	NA	9,090	23,100	49,000	NA	NA	NP
BV-7	262.11	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
BV-7	262.11	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-7	262.11	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.02	10/05/94	15.37	0.00	242.65	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	61	NA	P
SVE-1	258.02	02/15/95	12.18	0.00	245.84	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.02	04/10/95	12.05	0.00	245.97	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.02	07/20/95	13.95	0.00	244.07	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	380	<750	NA	NA	P
SVE-1	258.02	10/25/95	14.23	0.00	243.79	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	01/23/96	11.45	0.00	246.04	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS. **
SVE-1	257.49	04/17/96	12.38	0.00	245.11	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	07/08/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	10/10/96	13.97	0.00	243.52	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	03/11/97	12.32	0.00	245.17	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	05/29/97	10.19	0.00	247.30	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	08/05/97	15.82	0.00	241.67	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	10/23/97	11.26	0.00	246.23	1.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	03/11/98	10.27	0.00	247.22	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	06/30/98	14.04	0.00	243.45	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	09/25/98	14.12	0.00	243.37	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	12/29/98	11.99	0.00	245.50	10.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	03/09/99	10.15	0.00	247.34	12.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	06/02/99	12.19	0.00	245.30	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	09/27/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
SVE-1	257.49	12/20/99	11.65	0.00	245.84	5.5	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
SVE-1	257.49	03/16/00	12.85	0.00	244.64	2.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	06/30/00	13.38	0.00	244.11	2.7	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
SVE-1	257.49	09/27/00	14.62	0.00	242.87	0.83	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	309	<847	NA	NA	NP
SVE-1	257.49	11/10/00	14.30	0.00	243.19	0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	03/19/01	13.20	0.00	244.29	0.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	06/27/01	13.70	0.00	243.79	0.29	<0.500	<0.500	<0.500	<1.00	6.02	NA	NA	<50.0	<250	<750	NA	NA	NP
SVE-1	257.49	09/26/01	14.55	0.00	242.94	0.63	<0.500	<0.500	<0.500	<1.00	14.7	NA	NA	<50.0	<250	<750	NA	NA	NP
SVE-1	257.49	12/03/01	12.90	0.00	244.59	0.46	<0.500	<0.500	<0.500	<1.00	25.5	NA	NA	<50.0	<250	<500	NA	NA	NP
SVE-1	257.49	06/06/02	12.85	0.00	244.64	2.7	<0.500	<0.500	<0.500	<1.00	2.63	<0.01	<1.00	<50.0	<250	<500	<1.00	<1.00	NP
SVE-1	257.49	06/26/03	13.45	0.00	244.04	3.7	<0.500	<0.500	<0.500	<1.00	<5.00	NA	<1.00	<50.0	<287	<575	3.55	<1.00	NP
SVE-1	257.49	12/09/03	13.00	0.00	244.49	1.2	<0.500	<0.500	<0.500	<1.00	21.2	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
SVE-1	257.49	04/07/04	12.33	0.00	245.16	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	11/16/04	13.80	0.00	243.69	1.6	<0.200	<0.500	<0.500	<1.00	17.7	NA	NA	<80.0	<250	<500	<1.00	<1.00	NP
SVE-1	257.49	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	12/06/05	13.20	0.00	244.29	3.0	<0.500	<0.500	<0.500	<1.00	6.1	NA	NA	<50.0	<243	<485	<1.00	<1.00	NP
SVE-1	257.49	06/05/06	12.23	0.00	245.26	1.0	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	<538	<1.00	<1.00	NP
SVE-1	257.49	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	12/19/06	10.79	0.00	246.70	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	257.49	09/24/07	14.04	0.00	243.45	1.6	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	NA	NA	NP
SVE-1	257.49	12/31/07	11.60	0.00	245.89	2.44	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
SVE-1	258.83	01/30/08	11.44	0.00	247.39	1.03	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	1.61	NA	NP
SVE-1	258.83	04/02/08	14.74	0.00	244.09	1.40	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	NA	NA	NP
SVE-1	258.83	07/01/08	14.52	0.00	244.31	5.04	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	<1.00	NA	NP
SVE-1	258.83	10/03/08	16.18	0.00	242.65	4.4	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	2.68	NA	NP
SVE-1	258.83	01/06/09	15.08	0.00	243.75	3.5	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<236	<472	<1.00	NA	NP
SVE-1	258.83	04/08/09	14.42	0.00	244.41	5.7	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	<243	<485	12	<1.00	NP
SVE-1	258.83	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
SVE-1	258.83	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-1	258.83	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	259.31	10/05/94	16.85	0.00	242.46	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	47	NA	P
SVE-2	259.31	02/15/95	13.59	0.00	245.72	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	259.31	04/11/95	13.38	0.00	245.93	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	610	<1,000	NA	NA	P, b
SVE-2	259.31	07/20/95	15.40	0.00	243.91	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	360	<750	NA	NA	P
SVE-2	259.31	10/25/95	15.70	0.00	243.61	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	420	<750	NA	NA	P
SVE-2	258.83	01/23/96	12.70	0.00	246.13	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	310	<750	NA	NA	P, **
SVE-2	258.83	04/17/96	13.77	0.00	245.06	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
SVE-2	258.83	07/08/96	14.00	0.00	244.83	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	356	<750	NA	NA	P
SVE-2	258.83	10/10/96	15.38	0.00	243.45	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/11/97	12.52	0.00	246.31	2.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	05/29/97	10.71	0.00	248.12	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	08/05/97	16.11	0.00	242.72	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	10/23/97	12.62	0.00	246.21	3.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/11/98	11.81	0.00	247.02	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/30/98	15.94	0.00	242.89	2.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/25/98	15.57	0.00	243.26	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/29/98	13.57	0.00	245.26	8.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/09/99	11.09	0.00	247.74	9.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/02/99	13.56	0.00	245.27	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/27/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/20/99	13.45	0.00	245.38	4.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/16/00	13.15	0.00	245.68	2.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/30/00	14.75	0.00	244.08	2.4	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
SVE-2	258.83	09/27/00	16.01	0.00	242.82	0.95	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
SVE-2	258.83	11/10/00	15.75	0.00	243.08	1.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/19/01	14.40	0.00	244.43	0.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/27/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/26/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/03/01	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/06/02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/26/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
SVE-2	258.83	12/19/06	11.84	0.00	246.99	1.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-2	258.83	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	03/11/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	05/29/97	5.31	0.00	NE	5.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	08/05/97	6.48	0.00	NE	14.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	10/23/97	4.67	SHEEN	NE	8.7	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
SVE-3	NE	03/11/98	8.24	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	06/30/98	5.52	SHEEN	NE	NM	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN	SHEEN
SVE-3	NE	09/25/98	9.02	0.00	NE	1.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	12/29/98	6.64	0.00	NE	6.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	03/09/99	NM	0.00	NE	12.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	06/02/99	9.04	0.00	NE	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	09/27/99	NM	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	12/20/99	8.15	0.00	NE	4.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	03/16/00	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	06/30/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	09/27/00	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	11/10/00	8.02	0.00	NE	0.39	733	2,850	456	1,960	NA	NA	NA	20,300	1,950	6,950	NA	NA	NP
SVE-3	NE	03/19/01	7.95	0.01	NE	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
SVE-3	NE	06/27/01	8.50	0.00	NE	0.08	184	1,120	180	995	<10.0	NA	NA	10,600	1,560	1,980	NA	NA	NP



**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
SVE-3	NE	09/26/01	6.75	0.00	NE	0.14	82.6	492	99.4	961	<20.0	NA	NA	6,540	<250	<750	NA	NA	NP
SVE-3	NE	12/03/01	7.86	0.00	NE	0.49	72.3	549	67.6	600	<50.0	NA	NA	3,360	2,410	10,800	NA	NA	NP
SVE-3	NE	06/06/02	8.60	0.00	NE	0.3	50.7	31.0	86.8	168	<2.00	NA	<1.00	1,910	NA	NA	NA	NA	NP
SVE-3	NE	06/26/03	10.27	0.00	NE	1.3	90.6	169	238	981	<2.50	NA	NA	7,030	NA	NA	NA	NA	NP
SVE-3	NE	12/09/03	7.71	0.00	NE	0.7	34.4	44.8	82.9	220	<2.50	NA	NA	3,190	14,000	59,900	24.2	<1.00	NP
SVE-3	NE	04/07/04	7.41	0.00	NE	1.0	11.60	12.5	37.3	70.9	<1.00	NA	NA	3,610	2,180	8,300	4.30	<1.00	NP, e
SVE-3	NE	11/16/04	7.60	0.00	NE	1.21	4.35	0.650	9.44	17.5	<2.00	NA	NA	614	6,080	23,200	3.36	<1.00	NP
SVE-3	NE	03/29/05	6.31	0.00	NE	1.5	0.780	<0.500	0.700	1.28	<2.00	<0.010	<0.500	141	367	1,610	26	NA	NP
SVE-3	NE	06/22/05	7.47	0.00	NE	0.6	1.59	<0.500	9.01	15.8	<2.00	NA	NA	730	4,210	16,900	37	<1.00	NP
SVE-3	NE	09/12/05	8.46	0.00	NE	0.7	31.6	724	344	1,480	<2.00	NA	NA	7,190	13,200	61,000	40.9	<1.00	NP
SVE-3	NE	12/06/05	6.04	0.00	NE	2.3	1.41	0.83	11.5	23.2	<1.00	NA	NA	845	617	788	<1.00	<1.00	NP
SVE-3	NE	06/05/06	6.00	0.02	NE	NM	<0.500	<0.500	5.66	20.6	<1.00	NA	NA	9,870	12,300	45,300	1.36	<1.00	NP
SVE-3	NE	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	12/19/06	6.20	0.00	NE	1.7	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
SVE-3	NE	09/24/07	8.49	0.00	NE	4.0	2.42	0.81	91.1	134	<1.00	NA	NA	4,830	1,600	9,260	NA	NA	NP
SVE-3	NE	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
SVE-3	NE	01/30/08	8.52	0.00	NE	2.91	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	175	<238	<476	NA	NA	NP
SVE-3	NE	04/02/08	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	07/01/08	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	10/03/08	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	01/06/09	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	04/07/09	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	07/08/09	9.21	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVE-3	NE	10/06/09	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	01/05/10	8.36	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, e
SVE-3	NE	05/25/10	8.51	0.00	NE	8.1	1.4	130	24	110	<1.00	NA	NA	1,700	1,800	4,300	3.8	<2.00	NP
SVE-3	NE	08/19/10	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	12/07/10	8.30	0.00	NE	3.4	<0.50	<0.50	11	13	<1.0	NA	NA	590	2,700	20,000	4.0	<2.0	NP
SVE-3	NE	01/26/11	7.82	0.00	NE	3.5	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	1,100	8,500	4.3	<2.0	NP
SVE-3	NE	06/16/11	8.22	0.00	NE	1.9	<0.50	<0.50	9.3	6.9	<1.0	NA	NA	320	2,100	5,400	7.7	<2.0	NP
SVE-3	NE	09/22/11	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	12/06/11	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	03/08/12	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	06/19/12	8.30	0.00	NE	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<160	<800	<10.0	<10.0	DRY
SVE-3	NE	09/21/12	DRY	DRY	NE	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	12/11/12	DRY	DRY	NE	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
SVE-3	NE	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	258.02	07/20/95	14.43	0.00	243.59	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	6,100	7,900	NA	NA	P
AS-1	258.02	10/25/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	01/23/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, **
AS-1	257.49	04/17/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	07/08/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
AS-1	257.49	10/10/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	03/11/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	05/29/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	08/05/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	10/23/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	03/11/98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-1	257.49	03/20/13	NM	NN	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	NE	02/15/95	14.33	0.00	NE	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	12,000	45,000	430	NA	P, *, a, c
AS-2	NE	04/10/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	NE	07/20/95	16.23	0.00	NE	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	8,400	6,800	NA	NA	P

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
AS-2	NE	10/25/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	01/23/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, **
AS-2	258.76	04/17/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	07/08/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	10/10/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	03/11/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	05/29/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	08/05/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	10/23/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	03/11/98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-2	258.76	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments	
AS-2	258.76	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	258.16	10/05/94	17.10	0.00	241.06	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	22	NA	P	
AS-3	258.16	02/15/95	14.81	0.00	243.35	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	258.16	04/10/95	14.64	0.00	243.52	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	258.16	07/20/95	15.80	0.00	242.36	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	1,500	2,600	NA	NA	P	
AS-3	258.16	10/25/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	01/23/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, **
AS-3	257.80	04/17/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	07/08/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	10/10/96	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	03/11/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	05/29/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	08/05/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	10/23/97	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	03/11/98	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	12/09/03	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	04/07/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	11/16/04	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	03/29/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	06/22/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	09/12/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	12/06/05	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	06/05/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	12/19/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	09/24/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	01/30/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	04/02/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.81	07/01/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	10/03/08	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	01/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	04/07/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	07/08/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	10/06/09	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	01/05/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	05/25/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	08/19/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	12/07/10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	01/26/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	06/16/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
AS-3	257.80	09/22/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
AS-3	257.80	12/06/11	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-3	257.80	03/08/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-3	257.80	06/19/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-3	257.80	09/21/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-3	257.80	12/11/12	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
AS-3	257.80	03/20/13	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	NE	02/15/95	14.72	3.27	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	NE	04/10/95	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	NE	07/20/95	14.63	0.26	NE	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
B1 (JPHC)	NE	10/25/95	14.20	0.00	NE	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	NE	01/23/96	12.20	Sheen	NE	NM	1,500	1,200	1,200	7,900	NA	NA	NA	3,900,000	7,200	15,000	NA	NA	P
B1 (JPHC)	NE	04/17/96	14.13	0.70	NE	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
B1 (JPHC)	257.71	07/08/96	13.10	NM	244.61	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
B1 (JPHC)	257.71	10/10/96	14.40	0.00	243.31	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	257.71	03/11/97	8.67	0.00	249.04	18.3	<2.50	<2.50	<2.50	<5.0	NA	NA	NA	2,600	16,500	34,300	NA	NA	NP
B1 (JPHC)	257.71	05/29/97	9.06	0.00	248.65	14.2	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	934	14,000	32,400	NA	NA	NP
B1 (JPHC)	257.71	08/05/97	9.28	0.00	248.43	10.6	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	238	7,500	16,100	NA	NA	NP
B1 (JPHC)	257.71	10/23/97	9.40	0.00	248.31	15.8	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	240	75,500	280,000	NA	NA	NP
B1 (JPHC)	257.71	03/11/98	15.02	0.00	242.69	NM	3.15	13.6	2.1	31.4	NA	NA	NA	894	<250	<750	NA	NA	NP
B1 (JPHC)	257.71	06/30/98	13.41	0.00	244.30	0.4	203	<10.0	<10.0	<60.0	NA	NA	NA	23,100	3,540	NA	NA	NA	NP
B1 (JPHC)	257.71	09/25/98	13.67	0.08	244.10	NM	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH	LPH
B1 (JPHC)	257.71	12/29/98	12.24	0.00	245.47	2.3	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	1,170	2,730	NA	NA	NP
B1 (JPHC)	257.71	03/09/99	11.50	0.00	246.21	5.7	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	746	1,830	NA	NA	NP
B1 (JPHC)	257.71	06/02/99	12.57	0.00	245.14	NM	57.3	5.34	0.729	5.70	NA	NA	NA	196	1,050	1,530	NA	NA	NP
B1 (JPHC)	257.71	09/27/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	257.71	12/20/99	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
B1 (JPHC)	257.71	03/16/00	12.00	0.00	245.71	0.89	538	119	42.6	142	NA	NA	NA	2,170	4,580	1,880	NA	NA	NP
B1 (JPHC)	257.71	06/30/00	13.56	0.00	244.15	1.4	1,430	629	155	658	NA	NA	NA	6,510	4,820	973	NA	NA	NP
B1 (JPHC)	257.71	09/27/00	14.02	0.00	243.69	0.92	1,180	203	62.0	309	NA	NA	NA	6,780	6,490	8,870	NA	NA	NP
B1 (JPHC)	257.71	11/10/00	13.59	0.00	244.12	0.58	2,260	456	159	621	NA	NA	NA	8,610	2,230	5,090	NA	NA	NP
B1 (JPHC)	257.71	03/19/01	13.47	0.00	244.24	0.39	1,400	569	138	672	212	NA	NA	9,680	1,360	1,450	NA	NA	NP
B1 (JPHC)	257.71	06/27/01	14.90	0.01	242.82	0.12	1,360	2,230	419	2,060	<125	NA	NA	47,300	73,900	132,000	NA	NA	NP
B1 (JPHC)	257.71	09/26/01	14.25	0.01	243.47	1.18	1,930	1,370	1,180	8,990	40.4	NA	NA	4,790,000	197,000	304,000	NA	NA	NP
B1 (JPHC)	257.71	12/03/01	12.00	0.00	245.71	0.37	204	727	290	1,790	48.7	NA	NA	40,500	14,300	28,200	NA	NA	NP
B1 (JPHC)	257.71	06/26/03	13.91	0.30	244.04	NM	2,850	286	584	2,570	19.1	NA	NA	31,600	185,000	263,000	447	14.3	NP
B1 (JPHC)	257.71	12/09/03	12.20	0.00	245.51	NM	454	10.7	34.8	354	<5.00	NA	NA	4,650	10,700	20,500	4.60	1.62	NP
B1 (JPHC)	257.71	04/07/04	12.71	0.00	245.00	1.1	2,650	428	383	1,730	<100	NA	NA	24,500	11,200	20,200	5.13	13.3	NP
B1 (JPHC)	257.71	11/16/04	13.58	0.00	244.13	1.62	3,470	15	260	1,190	<40.0	NA	NA	45,000	6,730	3,770	9.55	1.39	NP
B1 (JPHC)	257.71	03/29/05	12.30	0.00	245.41	1.7	3,800	267	600	2,330	<40.0	<0.010	<10.0	19,500	50,400	18,600	26.6	NA	NP
B1 (JPHC)	257.71	06/22/05	15.50	0.03	242.23	NM	594	80.8	326	1,450	<10.0	NA	NA	9,760	13,300	7,820	24.5	1.73	NP
B1 (JPHC)	257.71	09/12/05	14.04	0.00	243.67	NM	3,890	64.4	986	4,280	25.4	NA	NA	115,000	4,270	7,990	69.4	11.5	NP
B1 (JPHC)	257.71	12/06/05	13.27	0.00	244.44	NM	5,400	99.0	625	2,220	<100	NA	NA	25,400	6,360	12,700	4.1	1.51	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments	
B1 (JPHC)	257.71	06/05/06	12.79	0.00	244.92	NM	4,440	75.0	316	885	<100	NA	NA	16,800	4,750	NA	21.5	1.56	NP	
B1 (JPHC)	257.71	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	257.71	12/19/06	11.40	0.03	246.33	NM	17.8	<0.500	<0.500	34.2	NA	NA	NA	4,140	NA	NA	NA	NA	NP	
B1 (JPHC)	257.71	09/24/07	14.95	0.72	243.34	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	257.71	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
B1 (JPHC)	257.71	01/30/08	12.76	0.11	245.04	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B1 (JPHC)	257.71	04/03/08	21.44	0.00	236.27	1.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, e
B1 (JPHC)	257.71	07/01/08	17.62	0.00	240.09	3.57	<0.500	<0.500	<0.500	<3.00	4.44	NA	NA	486	252	671	4.39	NA	NP	
B1 (JPHC)	257.71	10/03/08	19.15	0.00	238.56	5.1	<0.500	<0.500	<0.500	<3.00	2.82	NA	NA	5,870	4,260	10,400	18.4	NA	NP	
B1 (JPHC)	257.71	01/06/09	18.50	0.00	239.21	0.9	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	163	2,270	7,700	8.21	NA	NP	
B1 (JPHC)	257.71	04/08/09	19.79	0.00	237.92	1.4	<0.500	<0.500	<0.500	1.13	1.12	NA	NA	185	<245	<490	5.36	5.19	NP	
B1 (JPHC)	257.71	07/08/09	14.12	0.00	243.59	1.8	24.6	<0.500	<0.500	<1.00	<2.00	NA	NA	152	<240	<481	6.81	5.74	NP	
B1 (JPHC)	257.71	10/06/09	15.70	0.00	242.01	2.0	54	1.2	3.6	<2.00	<1.00	NA	NA	950	315	534	31	5.6	NP	
B1 (JPHC)	257.71	01/06/10	12.68	0.00	245.03	1.8	110	2.2	9.5	10	<1.00	NA	NA	1,000	810	<240	7.7	6.9	NP	
B1 (JPHC)	257.71	05/25/10	13.12	0.00	244.59	1.7	250	11	26	64	<1.00	NA	NA	1,400	13,000	720	13	6.5	NP	
B1 (JPHC)	257.71	08/19/10	14.04	0.00	243.67	1.3	280	26	32	120	<1.00	NA	NA	2,000	11,000	780	11	5.0	NP	
B1 (JPHC)	257.71	12/07/10	12.87	0.00	244.84	1.2	150	42	39	160	<1.0	NA	NA	2,900	4,700	650	6.6	4.8	NP	
B1 (JPHC)	257.71	01/26/11	11.58	0.00	246.13	3.2	41	16	21	100	<1.0	NA	NA	1,200	3,000	370	4.9	4.1	NP	
B1 (JPHC)	257.71	06/16/11	12.84	0.00	244.87	2.3	140	8.2	52	340	<1.0	NA	NA	4,600	7,700	1,600	8.0	4.2	NP	
B1 (JPHC)	257.71	09/22/11	16.09	0.00	241.62	2.5	3.3	<0.50	2.7	9.2	1.5	NA	NA	520	304	<476	3.3	<2.0	NP	
B1 (JPHC)	257.71	12/06/11	18.31	0.00	239.40	NM	<1.0	<1.0	<1.0	<3.0	1.6	NA	NA	337	129	<381	<10.0	<10.0	NP	
B1 (JPHC)	257.71	03/08/12	13.30	0.00	244.41	5.8	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	83.0	86.6	<400	<10.0	<10.0	NP	
B1 (JPHC)	257.71	06/19/12	12.98	0.00	244.73	NM	16.9	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	697	<800	<10.0	<10.0	NP	
B1 (JPHC)	257.71	09/21/12	14.19	0.00	243.52	0.17	37.5	<1.0	<1.0	<3.0	<1.0	NA	NA	448	232	546	<10.0	<10.0	NP	
B1 (JPHC)	257.71	12/11/12	11.16	0.00	246.55	0.9	9.4	<1.0	<1.0	<3.0	<1.0	NA	NA	359	989	464	<3.0	<3.0	NP	
B1 (JPHC)	257.71	03/20/13	11.89	0.00	245.82	2.30	65	0.70	8.2	12.1	<0.50	NA	NA	440	<250	<500	<10.0	NA	LF	
B3 (JPHC)	NE	02/15/95	13.37	0.00	NE	NM	1.0	<0.5	<0.5	<1.0	NA	NA	NA	<50	340	1,200	10	NA	P, *, a	
B3 (JPHC)	NE	04/11/95	13.52	0.00	NE	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P	
B3 (JPHC)	NE	07/20/95	15.15	0.00	NE	NM	<0.5	0.90	<0.5	2.6	NA	NA	NA	91	370	<750	NA	NA	P	
B3 (JPHC)	NE	10/25/95	14.93	0.00	NE	NM	0.57	2.6	0.84	9.0	NA	NA	NA	750	810	1,600	NA	NA	P	
B3 (JPHC)	NE	01/23/96	12.58	0.00	NE	NM	0.64	11	3.6	35.0	NA	NA	NA	5,400	810	1,900	NA	NA	P	
B3 (JPHC)	NE	04/17/96	13.68	0.00	NE	NM	<0.5	1.0	<0.5	<1.0	NA	NA	NA	80	330	<750	NA	NA	P	
B3 (JPHC)	258.41	07/08/96	9.21	0.00	249.20	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	415	<750	NA	NA	P	
B3 (JPHC)	258.41	10/10/96	15.50	0.00	242.91	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	P	
B3 (JPHC)	258.41	03/11/97	9.41	0.00	249.00	16.8	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	407	<750	NA	NA	NP	
B3 (JPHC)	258.41	05/29/97	9.22	0.00	249.19	12.7	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	402	1,180	NA	NA	NP	
B3 (JPHC)	258.41	08/05/97	19.57	0.00	238.84	12.2	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	269	<750	NA	NA	NP	
B3 (JPHC)	258.41	10/23/97	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
B3 (JPHC)	258.41	03/11/98	14.75	0.00	243.66	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<80	<250	<750	NA	NA	NP	
B3 (JPHC)	258.41	06/30/98	15.08	0.00	243.33	10.2	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	76.6	<250	NA	NA	NA	NP	
B3 (JPHC)	258.41	09/25/98	14.95	0.00	243.46	5.1	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP	
B3 (JPHC)	258.41	12/29/98	14.21	0.00	244.20	10.0	<2.5	<2.5	<2.5	<5.0	NA	NA	NA	<250	<250	<750	NA	NA	NP	

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
B3 (JPHC)	258.41	03/09/99	14.41	0.00	244.00	4.1	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	<250	<750	NA	NA	NP
B3 (JPHC)	258.41	06/02/99	13.68	0.00	244.73	1.3	<0.500	5.43	<0.500	4.39	NA	NA	NA	51.9	<250	<750	NA	NA	NP
B3 (JPHC)	258.41	09/27/99	NM	0.00	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B3 (JPHC)	258.41	12/20/99	12.50	0.00	245.91	0.89	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	98.2	<250	NA	NA	NA	NP
B3 (JPHC)	258.41	03/16/00	13.55	0.00	244.86	1.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B3 (JPHC)	258.41	06/30/00	14.52	0.00	243.89	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B3 (JPHC)	258.41	09/27/00	15.35	0.00	243.06	3.20	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	<250	<750	NA	NA	NP
B3 (JPHC)	258.41	11/10/00	14.61	0.00	243.80	1.10	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<80.0	<250	<750	NA	NA	NP
B3 (JPHC)	258.41	03/19/01	14.17	0.00	244.24	1.06	<0.500	<0.500	<0.500	<1.00	204	NA	NA	<50.0	1,180	2,750	NA	NA	NP
B3 (JPHC)	258.41	06/27/01	15.72	0.00	242.69	0.21	<0.500	<0.500	<0.500	<1.00	9.44	NA	NA	<50.0	<250	<750	NA	NA	NP
B3 (JPHC)	258.41	09/26/01	15.23	0.00	243.18	1.03	<0.500	<0.500	<0.500	<1.00	8.06	NA	NA	<50.0	<250	<750	NA	NA	NP
B3 (JPHC)	258.41	12/03/01	13.15	0.00	245.26	0.59	<0.500	<0.500	<0.500	<1.00	49.3	NA	NA	<50.0	<250	<500	NA	NA	NP
B3 (JPHC)	258.41	06/06/02	14.33	0.00	244.08	1.3	<0.500	1.05	<0.500	<1.00	5.03	<0.01	<1.00	<50.0	<250	<500	23.5	<1.00	NP
B3 (JPHC)	258.41	06/26/03	14.63	0.00	243.78	2.9	<0.500	<0.500	1.30	7.36	<1.00	NA	NA	296	289	<500	11.3	<1.00	NP
B3 (JPHC)	258.41	12/09/03	13.25	0.00	245.16	1.6	<0.500	<0.500	<0.500	<1.00	1.61	NA	NA	<50.0	<250	<500	<1.00	<1.00	NP
B3 (JPHC)	258.41	04/07/04	14.00	0.00	244.41	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B3 (JPHC)	258.41	11/16/04	14.63	0.00	243.78	2.02	<0.200	<0.500	<0.500	<1.00	3.76	NA	NA	<80.0	<250	<500	2.28	<1.00	NP
B3 (JPHC)	258.41	03/29/05	13.81	0.00	244.60	1.5	<0.200	<0.500	<0.500	<1.00	2.58	<0.010	<0.500	<80.0	<250	<500	2.09	NA	NP
B3 (JPHC)	258.41	06/22/05	14.31	0.00	244.10	0.4	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	291	<500	18.9	<1.00	NP
B3 (JPHC)	258.41	09/12/05	15.05	0.00	243.36	NM	<0.500	<0.500	<0.500	<1.00	3.82	NA	NA	<50.0	<250	<500	4.12	<1.00	NP
B3 (JPHC)	258.41	12/06/05	13.90	0.00	244.51	1.2	<0.500	<0.500	<0.500	<1.00	4.49	NA	NA	74.3	253	<485	3.25	<1.00	NP
B3 (JPHC)	258.41	06/05/06	13.51	0.00	244.90	0.7	<0.500	<0.500	<0.500	<1.00	1.17	NA	NA	<50.0	<278	<556	1.95	<1.00	NP
B3 (JPHC)	258.41	09/29/06	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B3 (JPHC)	258.41	12/19/06	12.36	0.00	246.05	2.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
B3 (JPHC)	258.41	09/24/07	15.36	0.00	243.05	1.7	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<245	<490	NA	NA	NP
B3 (JPHC)	258.41	12/31/07	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, f
B3 (JPHC)	258.41	01/29/08	13.53	0.00	244.88	2.15	<0.500	<0.500	<0.500	<3.00	<1.00	NA	NA	<50.0	<238	<476	1.59	NA	NP
B3 (JPHC)	258.41	04/03/08	20.10	0.00	238.31	2.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS, e
B3 (JPHC)	258.41	07/01/08	17.84	0.00	240.57	3.20	<0.500	<0.500	<0.500	<3.00	15.6	NA	NA	<50.0	<236	<472	<1.00	NA	NP
B3 (JPHC)	258.41	10/03/08	18.76	0.00	239.65	2.3	<0.500	<0.500	<0.500	<3.00	23.5	NA	NA	<50.0	<236	<472	16.9	NA	NP
B3 (JPHC)	258.41	01/06/09	18.92	0.00	239.49	2.1	<0.500	<0.500	<0.500	<3.00	24.1	NA	NA	<50.0	<236	<472	7.6	NA	NP
B3 (JPHC)	258.41	04/08/09	19.00	0.00	239.41	4.2	<0.500	<0.500	<0.500	<1.00	5.94	NA	NA	<50.0	<240	<481	1.62	<1.00	NP
B3 (JPHC)	258.41	07/08/09	15.25	0.00	243.16	7.5	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	842	<472	<1.00	<1.00	NP
B3 (JPHC)	258.41	10/06/09	15.81	0.00	242.60	4.3	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	130	<236	<472	7.6	<2.00	NP
B3 (JPHC)	258.41	01/06/10	13.43	0.00	244.98	5.2	<1.00	<1.00	<1.00	<2.00	<1.00	NA	NA	<50.0	<120	<240	<2.00	<2.00	NP
B3 (JPHC)	258.41	05/25/10	14.12	0.00	244.29	3.1	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	<50.0	<120	<240	<2.00	<2.00	NP
B3 (JPHC)	258.41	08/19/10	15.12	0.00	243.29	0.9	<0.50	<0.50	<0.50	<1.00	<1.00	NA	NA	<50.0	340	420	6.1	<2.00	NP
B3 (JPHC)	258.41	12/07/10	13.95	0.00	244.46	1.7	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<120	<240	6.1	<2.0	NP
B3 (JPHC)	258.41	01/26/11	12.64	0.00	245.77	4.2	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<120	<240	<2.0	<2.0	NP
B3 (JPHC)	258.41	06/16/11	13.84	0.00	244.57	1.7	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	260	450	2.3	<2.0	NP
B3 (JPHC)	258.41	09/22/11	16.75	0.00	241.66	5.0	<0.50	<0.50	<0.50	<1.0	<1.0	NA	NA	<50	<95.2	<476	<2.0	<2.0	NP
B3 (JPHC)	258.41	12/06/11	18.04	0.00	240.37	NM	<1.0	<1.0	<1.0	<3.0	2.2	NA	NA	<50.0	<80.0	<400	<10.0	<10.0	NP

**TABLE 1**  
**SUMMARY OF GROUNDWATER DATA**  
**ARCO FACILITY NO. 0980**  
**10822 ROOSEVELT WAY NE**  
**SEATTLE, WASHINGTON**

Well	TOC (feet)	Date Sampled	Depth to Water (feet)	LPH Thickness (feet)	GW Elevation (feet)	Dissolved Oxygen (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	1,2 Dibromo ethane (µg/L)	1,2 Dichloro ethane (µg/L)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Total Lead (µg/L)	Dissolved Lead (µg/L)	Comments
B3 (JPHC)	258.41	03/08/12	14.34	0.00	244.07	6.3	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<78.4	<392	<10.0	<10.0	NP
B3 (JPHC)	258.41	06/19/12	12.14	0.00	246.27	NM	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<160	<800	<10.0	<10.0	NP
B3 (JPHC)	258.41	09/21/12	15.33	0.00	243.08	0.42	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<50.0	<80.8	<404	<10.0	<10.0	NP
B3 (JPHC)	258.41	12/11/12	12.70	0.00	245.71	4.0	<1.0	<1.0	<1.0	<3.0	<1.0	NA	NA	<100	<182	444	<3.0	<3.0	NP
B3 (JPHC)	258.41	03/20/13	13.09	0.00	245.32	3.24	<0.50	<0.50	<0.50	<1.00	<0.50	NA	NA	<50	<250	<500	<10.0	NA	LF
<b>MTCA Method A Cleanup Levels</b>						-	5.0	1,000	700	1,000	20	0.01	5	1,000/800*	500	500	15	-	

\*1,000 ug/l if no detectable levels of Benzene in the sample- otherwise 800 ug/l

- Notes:** Benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (MTBE) analyzed by EPA Method 8260B. Analyses prior to 11/16/04 utilized EPA Method 8021B. Samples with MTBE detections above the laboratory method reporting limit using 8021B were re-analyzed using 8260B to confirm the MTBE concentration. Analyses prior to 6/30/98 utilized EPA Method 8020A and analyses prior to 7/8/96 utilized EPA Method 8020.
- TPH-G = Gasoline-range hydrocarbons analyzed by the Northwest method NWTPH-Gx. Analyses prior to 3/19/01 utilized Washington State Method WTPH-G.
- TPH-D = Diesel-range hydrocarbons analyzed by the Northwest method NWTPH-Dx. Analyses prior to 3/19/01 utilized Washington State Method WTPH-G.
- TPH-O = Oil-range hydrocarbons analyzed by the Northwest method NWTPH-Dx. Analyses prior to 3/19/01 utilized Washington State Method WTPH-G.
- 1,2-Dibromoethane (EDB) analyzed by EPA Method 8011.
- 1,2-Dichloroethane (EDC) analyzed by EPA Method 8260B.
- Total and dissolved lead analyzed by EPA Method 6020 Or EPA Method 6010.
- mg/L = Milligrams per liter.
- ug/L = Micrograms per liter.
- NE = Top of well casing elevation not established.
- LPH = Liquid phase hydrocarbons.
- <1.00 = Concentrations were not detected at or above the method reporting limit (MRL) and/or the method detection limit (MDL).
- NM = Not measured.
- NS = Not sampled.
- NP = Non-purge sampling method.
- P = Purge sampling methods were used.
- LF = Low Flow sampling methods were used.
- TOC = Top of Casing Elevation referenced to the National Geodetic Vertical Datum, 1929.
- 1This sample contains footnotes on the lab report.
- \* = Sample was collected on 03/03/95.
- \*\* = TOC elevations were revised after reviewing the original survey data.
- a = Sample indicates total oil and grease using laboratory method WTPH-413.1.
- b = Sample indicates total recoverable petroleum hydrocarbons using laboratory method WTPH-418.1.
- c = Sample was also analyzed using WTPH-418.1 with a resulting concentration of 22,000 ug/L.
- d = Unconfirmed MTBE concentration using method 8021B due to elevated method reporting limits using method 8260B.
- e = Not enough ground water to sample well.
- f = Monitoring well was inaccessible.
- Ground water elevation = top of casing elevation - depth to water + (0.8 x FP thickness).
- Sampling Frequency:  
 1Q 2013: MW-2, MW-4, MW-5, MW-8, MW-9, MW-10, MW-11, MW-12, B1(JPHC), B3(JPHC)

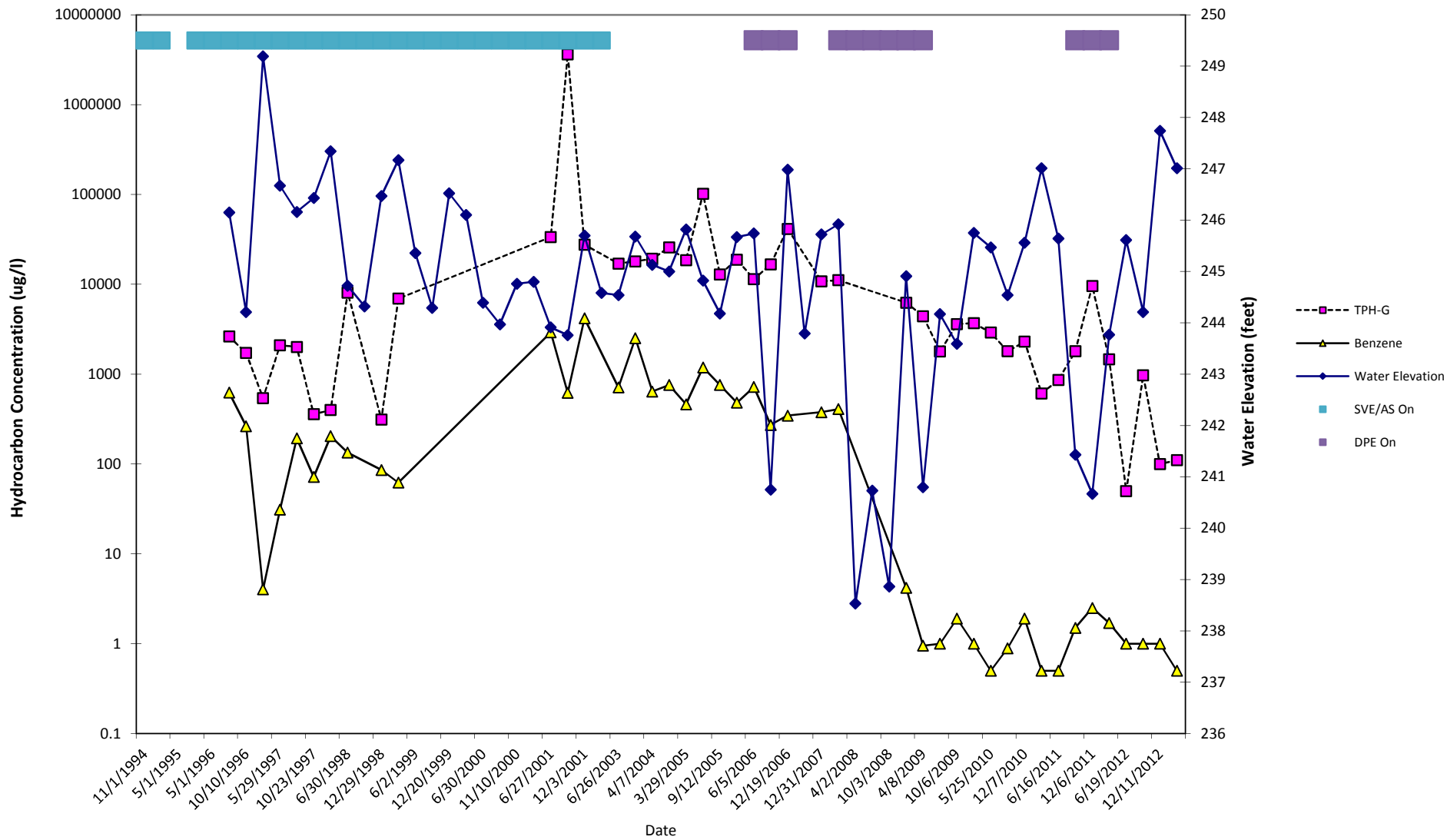




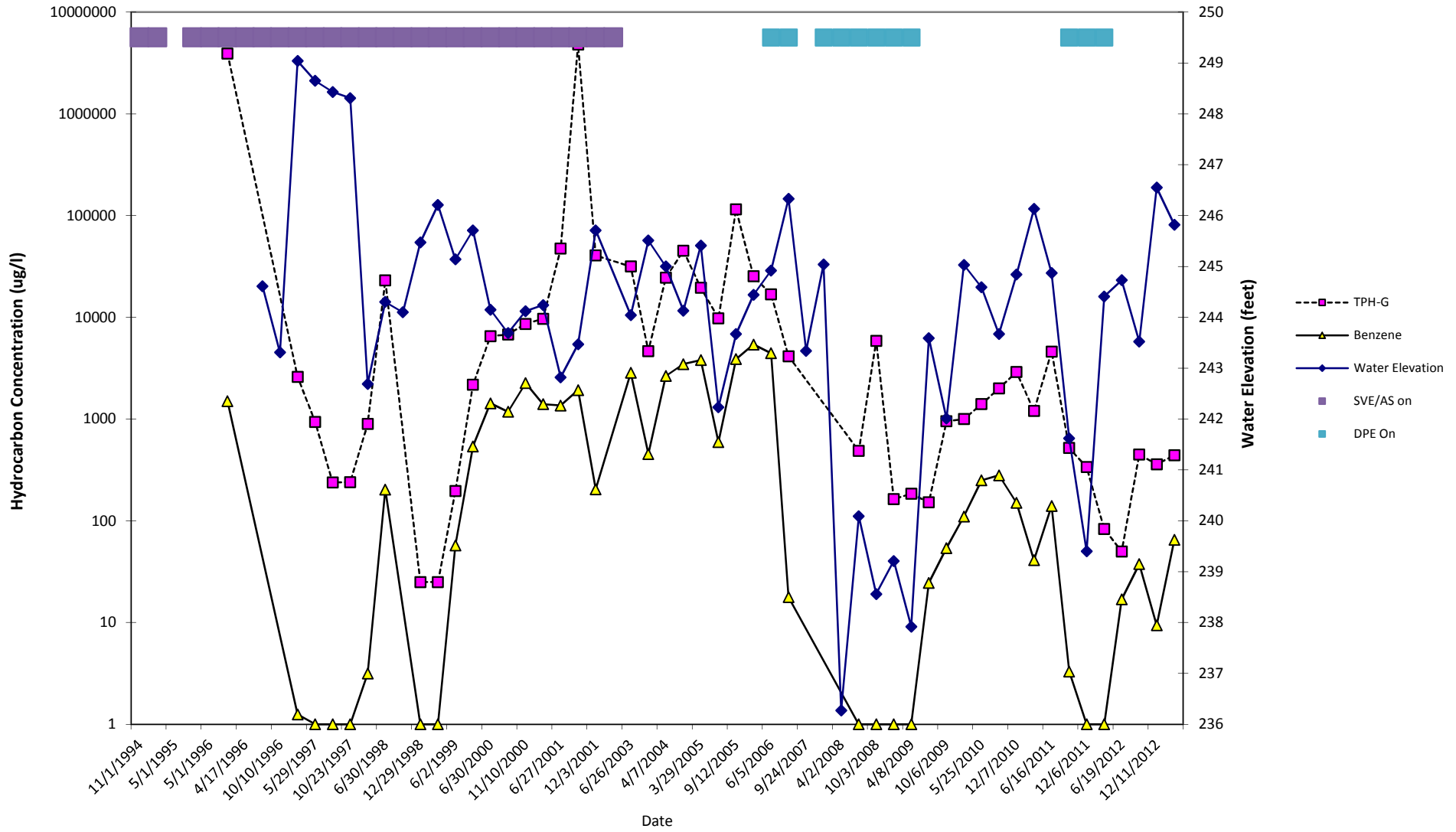
## ***Chart***

- Chart 1      MW-12 Hydrocarbon Concentrations and Water Elevations vs. Time
- Chart 2      B1 (JPHC) Hydrocarbon Concentrations and Water Elevations vs. Time

**Chart 1**  
**MW-12 Hydrocarbon Concentrations and Water Elevations vs. Time**  
**ARCO Facility No. 980**

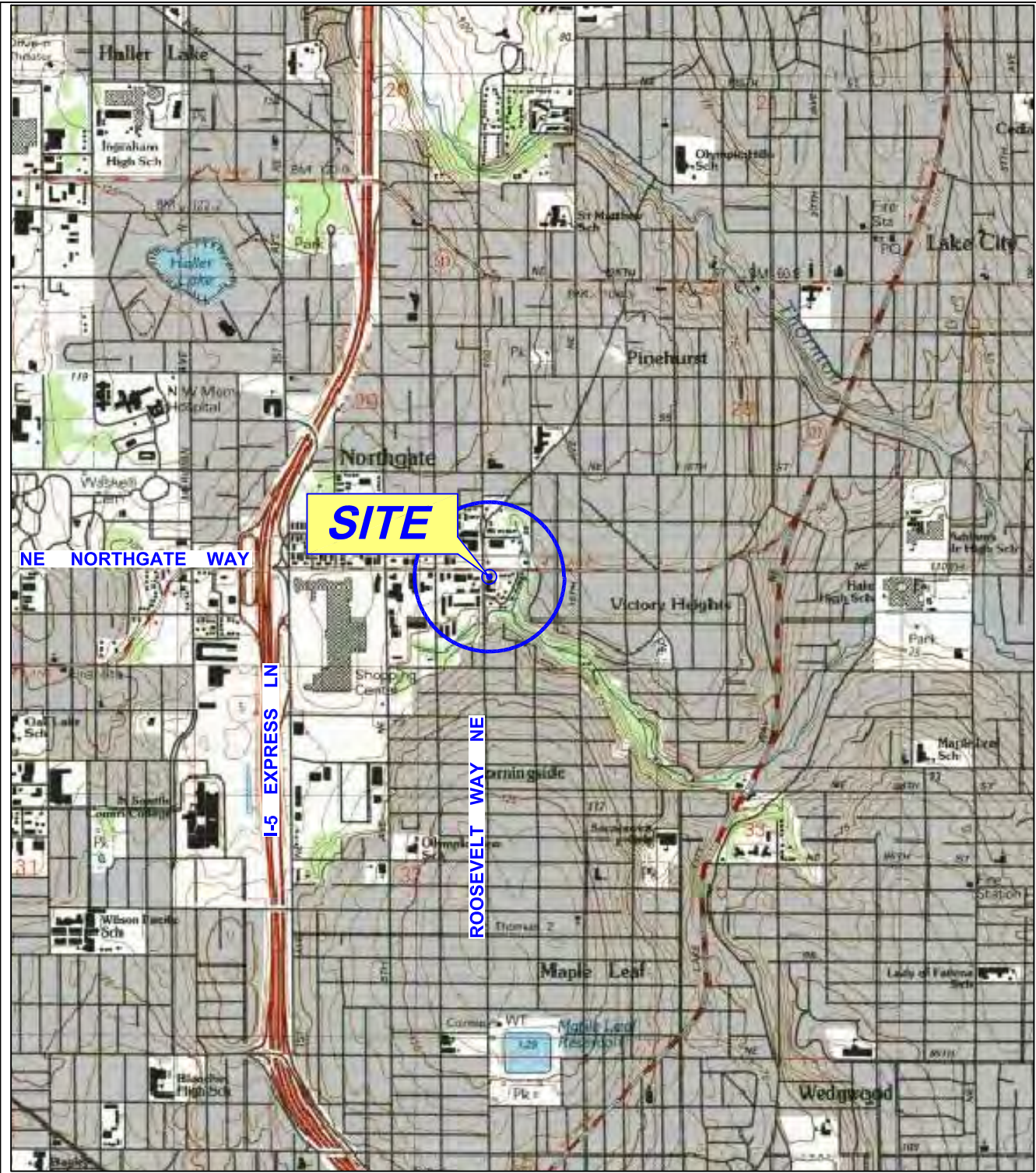


**Chart 2**  
**B1(JPHC) Hydrocarbon Concentrations and Water Elevations vs. Time**  
**ARCO Facility No. 980**



## ***Figures***

- Figure 1      Site Location Map
- Figure 2      Site Aerial Map
- Figure 3      Inferred Water Table Contour Map – 3/20/13



GENERAL NOTES:  
 BASE MAP FROM TERRAIN NAVIGATOR PRO  
 SEATTLE NORTH, WA. QUADRANGLE  
 7.5 MINUTE TOPOGRAPHIC MAP  
 1983



QUADRANGLE LOCATION

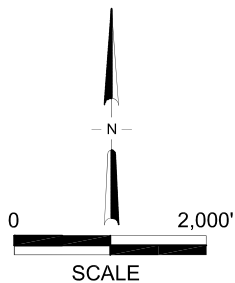


FIGURE 1

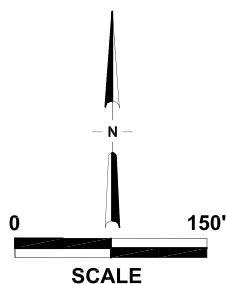
SITE LOCATION MAP  
 ARCO FACILITY NO. 980  
 10822 ROOSEVELT WAY NE  
 SEATTLE, WASHINGTON

PROJECT NO. 00980EA111	DRAWN BY K. MARTIN
FILE NO. 0980-SLM	PREPARED BY C. CRAWFORD
DATE 28 FEB 11	REV. 0
	REVIEWED BY





GENERAL NOTES:  
 AERIAL PHOTOGRAPH  
 DATED 2007



**FIGURE 2**

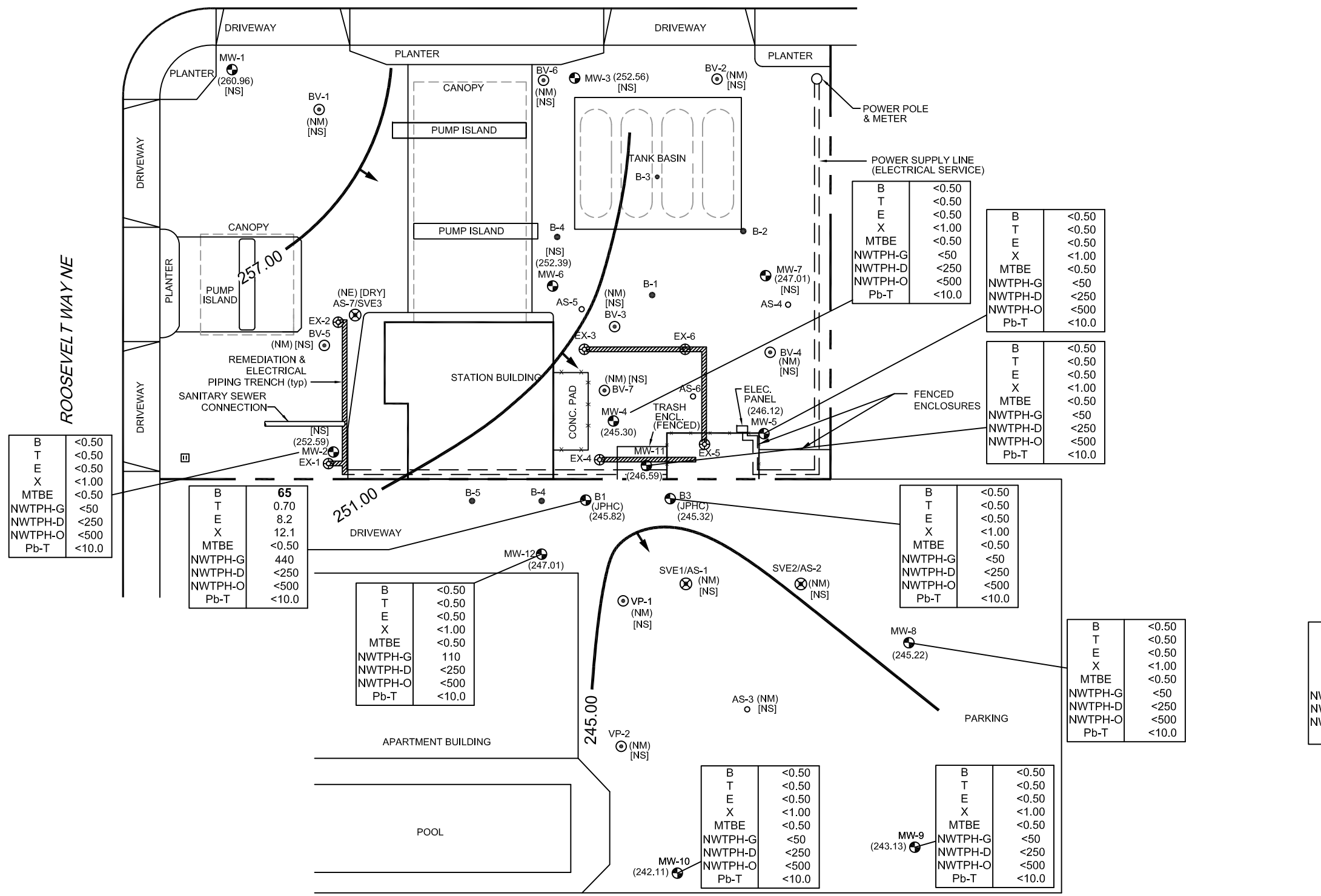
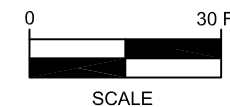
**SITE AERIAL MAP**

ARCO FACILITY NO. 980  
 10822 ROOSEVELT WAY NE  
 SEATTLE, WASHINGTON

PROJECT NO. 00980EA111	DRAWN BY KYM 2/28/11
FILE NO. 0980-SAM	PREPARED BY CC
REVISION NO. 1	REVIEWED BY



NE NORTHGATE WAY



- LEGEND:**
- ARCO PROPERTY LINE
  - ▭ CATCH BASIN
  - ⊙ BV-1 BIOVENTING WELL LOCATION
  - ⊙ B1 (JPHC) MONITORING WELL INSTALLED BY JAMES P. HURLEY CO.
  - ⊙ MW-1 MONITORING WELL LOCATION
  - ⊙ VP-2 SOIL VAPOR EXTRACTION/VACUUM PRESSURE MONITORING POINT
  - ⊗ SVE1/AS-1 SOIL VAPOR EXTRACTION/AIR SPARGING WELL LOCATION
  - AS-3 AIR SPARGING WELL LOCATION
  - B-4 SOIL BORING LOCATION
  - ⊕ EX-4 EXTRACTION WELL LOCATION
  - — — FENCE
  - ▬ UNDERGROUND PIPING TRENCH LOCATION
  - ▬▬▬ ABOVEGROUND PIPING LOCATION
  - (260.96) GROUNDWATER ELEVATION IN FEET REFERENCE TO THE NATIONAL GEODETIC VERTICAL DATUM, 1929.
  - 257.00— INFERRED WATER TABLE CONTOUR IN FEET REFERENCE TO THE NATIONAL GEODETIC VERTICAL DATUM, 1929. (GROUND WATER INTERVAL: 6.00 FT.)
  - ➔ INFERRED GROUNDWATER FLOW DIRECTION: SE TO S (GROUNDWATER MAGNITUDE: 0.07 FT/LINEAR FT)
  - NM NOT MEASURED
  - NS NOT SAMPLED
  - NE TOP OF CASING NOT ESTABLISHED

B	<0.50
T	<0.50
E	<0.50
X	<1.00
MTBE	<0.50
NWTPH-G	<50
NWTPH-D	<250
NWTPH-O	<500
Pb-T	<10.0

B	<b>65</b>
T	0.70
E	8.2
X	12.1
MTBE	<0.50
NWTPH-G	440
NWTPH-D	<250
NWTPH-O	<500
Pb-T	<10.0

B	<0.50
T	<0.50
E	<0.50
X	<1.00
MTBE	<0.50
NWTPH-G	110
NWTPH-D	<250
NWTPH-O	<500
Pb-T	<10.0

B	<0.50
T	<0.50
E	<0.50
X	<1.00
MTBE	<0.50
NWTPH-G	<50
NWTPH-D	<250
NWTPH-O	<500
Pb-T	<10.0

B	<0.50
T	<0.50
E	<0.50
X	<1.00
MTBE	<0.50
NWTPH-G	<50
NWTPH-D	<250
NWTPH-O	<500
Pb-T	<10.0

B	<0.50
T	<0.50
E	<0.50
X	<1.00
MTBE	<0.50
NWTPH-G	<50
NWTPH-D	<250
NWTPH-O	<500
Pb-T	<10.0


**GROUNDWATER DATA**

B	<0.50	BENZENE IN MICROGRAMS PER LITER (ug/L)
T	<0.50	TOLUENE IN ug/L
E	<0.50	ETHYLBENZENE IN ug/L
X	<1.00	XYLENES IN ug/L
MTBE	<0.50	METHYL TERT-BUTYL ETHER IN ug/L
NWTPH-G	<50	GASOLINE-RANGE HYDROCARBONS IN ug/L
NWTPH-D	<250	DIESEL-RANGE HYDROCARBONS IN ug/L
NWTPH-O	<500	HEAVY OIL-RANGE HYDROCARBONS IN ug/L
Pb-T	<10.0	TOTAL LEAD IN ug/L

NOTE: BOLD TEXT (B1-JPHC, BENZENE) INDICATES ANALYSIS RESULT EXCEEDING MTCA METHOD A CLEANUP LEVEL.

**FIGURE 3**  
**INFERRED WATER TABLE CONTOUR MAP**  
 3/20/13  
 ARCO FACILITY NO. 980  
 10822 ROOSEVELT WAY NE  
 SEATTLE, WASHINGTON

PROJECT NO. 00980HA121	DRAWN BY KYM 4/22/13
FILE NO. AR-980R -1q13	PREPARED BY CC
REVISION NO. 0	REVIEWED BY



NOTE:  
 BASE MAP AND ELEVATION DATUM ADAPTED FROM GERAGHTY & MILLER, INC.  
 FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



## ***Appendix A***

ALS Analytical Lab Reports and Chan-of-Custody Documentation





April 11, 2013

Analytical Report for Service Request No: K1302607

Bryan Taylor  
Antea USA Inc  
4006 148th Avenue NE  
Redmond, WA 98052

**RE: Arco 980/00980HA131**

Dear Bryan:


Enclosed are the results of the samples submitted to our laboratory on March 22, 2013. For your reference, these analyses have been assigned our service request number K1302607.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at [Gregory.Salata@alsglobal.com](mailto:Gregory.Salata@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**

  
Gregory Salata, Ph.D.  
Project Manager

GS/mj

Page 1 of 73

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEC UST	<a href="http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx">http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2286
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L12-28
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Georgia DNR	<a href="http://www.gaepd.org/Documents/techguide_pcb.html#cel">http://www.gaepd.org/Documents/techguide_pcb.html#cel</a>	881
Hawaii DOH	Not available	-
Idaho DHW	<a href="http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx">http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx</a>	-
Indiana DOH	<a href="http://www.in.gov/isdh/24859.htm">http://www.in.gov/isdh/24859.htm</a>	C-WA-01
ISO 17025	<a href="http://www.pjlabs.com/">http://www.pjlabs.com/</a>	L12-27
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	<a href="http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html</a>	9949
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-368
Montana DPHHS	<a href="http://www.dphhs.mt.gov/publichealth/">http://www.dphhs.mt.gov/publichealth/</a>	CERT0047
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA35
New Jersey DEP	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	WA005
New Mexico ED	<a href="http://www.nmenv.state.nm.us/dwb/Index.htm">http://www.nmenv.state.nm.us/dwb/Index.htm</a>	-
North Carolina DWQ	<a href="http://www.dwqlab.org/">http://www.dwqlab.org/</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA200001
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/envserv/">http://www.scdhec.gov/environment/envserv/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	4704427-08-TX
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C1203
Wisconsin DNR	<a href="http://dnr.wi.gov/">http://dnr.wi.gov/</a>	998386840
Wyoming (EPA Region 8)	<a href="http://www.epa.gov/region8/water/dwhome/wyomingdi.html">http://www.epa.gov/region8/water/dwhome/wyomingdi.html</a>	-
Kelso Laboratory Website	<a href="http://www.caslab.com">www.caslab.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.caslab.com](http://www.caslab.com) or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

**ALS ENVIRONMENTAL**

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/ 00980HA131  
**Sample Matrix:** Water

**Service Request No.:** K1302607  
**Date Received:** 03/22/13

**Case Narrative**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

**Sample Receipt**

Twelve water samples were received for analysis at ALS Environmental on 03/22/13. The samples were received in good condition and consistent with the accompanying chain of custody form, except where noted on the cooler receipt and preservation form included in this report. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

**Total Metals**

The upper control criterion was exceeded for Lead in the Low Level Continuing Calibration Verification (LLCCV, 131% recovery versus an upper control limit of 130%). Since the field samples bracketed by this LLCCV did not contain Lead at or above the Method Reporting Limit (MRL). No further corrective action was taken.

No other anomalies associated with the analysis of these samples were observed.

**Diesel Range Organics by Method NWTPH-Dx**

No anomalies associated with the analysis of these samples were observed.

**Gasoline Range Organics by Method NWTPH-Gx**

No anomalies associated with the analysis of these samples were observed.

**Volatile Organic Compounds by EPA Method 8260**

No anomalies associated with the analysis of these samples were observed.

Approved by \_\_\_\_\_







PC Yug

### Cooler Receipt and Preservation Form

Client / Project: Antea Service Request K13 2607

Received: 3/22/13 Opened: 3/22/13 By: SD Unloaded: 3/22/13 By: SD

- 1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* Courier *Hand Delivered*
- 2. Samples were received in: (circle) Cooler *Box* *Envelope* *Other* NA
- 3. Were custody seals on coolers? *NA* *Y* N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact? *Y* N If present, were they signed and dated? *Y* N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
0.6	-0.6	2.8	2.8	0	324	NA		NA	
2.8	2.4	4.0	3.7	-0.4	321				
4.1	4.1	3.2	3.2	0	294				

- 7. Packing material: *Inserts* *Baggies* Bubble Wrap Gel Packs *Wet Ice* *Dry Ice* *Sleeves* \_\_\_\_\_
- 8. Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*
- 9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* Y *N*
- 10. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* Y *N*
- 11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* Y *N*
- 12. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*
- 13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* *NA* Y *N*
- 14. Were VOA vials received without headspace? *Indicate in the table below.* *NA* Y *N*
- 15. Was C12/Res negative? NA *Y* *N*

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Rec'd 4 trip blanks NOT on chain  
Did not receive metals bottle OR MS/MSD1  
unloaded  
logged while it was being logged in.

**COLUMBIA ANALYTICAL SERVICES, INC.**  
Now part of the ALS Group

**- Cover Page -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.  
**Project Name:** Arco 980  
**Project No.:** 00980HA131

**Service Request:** K1302607

---

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>MW-2-8.93</u>	<u>K1302607-001</u>
<u>MW-2-8.93D</u>	<u>K1302607-001D</u>
<u>MW-2-8.93S</u>	<u>K1302607-001S</u>
<u>MW-4-15.86</u>	<u>K1302607-002</u>
<u>MW-5-14.92</u>	<u>K1302607-003</u>
<u>MW-8-14.36</u>	<u>K1302607-004</u>
<u>MW-9-15.83</u>	<u>K1302607-005</u>
<u>MW-10-14.45</u>	<u>K1302607-006</u>
<u>MW-11-15.26</u>	<u>K1302607-007</u>
<u>MW-12-10.83</u>	<u>K1302607-008</u>
<u>B-1JPHC-11.89</u>	<u>K1302607-009</u>
<u>B-3JPHC-13.09</u>	<u>K1302607-010</u>
<u>Method Blank</u>	<u>K1302607-MB</u>

**Comments:**



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-2-8.93      **Lab Code:** K1302607-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-4-15.86      **Lab Code:** K1302607-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-5-14.92      **Lab Code:** K1302607-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-8-14.36      **Lab Code:** K1302607-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

---

**Sample Name:** MW-9-15.83      **Lab Code:** K1302607-005

---

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-10-14.45      **Lab Code:** K1302607-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-11-15.26      **Lab Code:** K1302607-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** MW-12-10.83      **Lab Code:** K1302607-008

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:



**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** B-1JPHC-11.89      **Lab Code:** K1302607-009

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Date Collected:** 03/20/13  
**Project Name:** Arco 980      **Date Received:** 03/22/13  
**Matrix:** WATER      **Units:** ug/L  
**Basis:** NA

**Sample Name:** B-3JPHC-13.09      **Lab Code:** K1302607-010

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**

- 1 -

**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** BP Products North America, Inc. **Service Request:** K1302607  
**Project No.:** 00980HA131 **Date Collected:**  
**Project Name:** Arco 980 **Date Received:**  
**Matrix:** WATER **Units:** ug/L  
**Basis:** NA

**Sample Name:** Method Blank **Lab Code:** K1302607-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Lead	6010C	10.0	1.0	03/26/13	03/27/13	10.0	U	

Comments:

**Metals**  
 - 5A -  
**SPIKE SAMPLE RECOVERY**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Units:** UG/L  
**Project Name:** Arco 980      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-2-8.93S

**Lab Code:** K1302607-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Lead	75 - 125	488		10.0	U	500.00	97.6		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

**COLUMBIA ANALYTICAL SERVICES, INC.**

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**Metals**

- 6 -

**DUPLICATES**

**Client:** BP Products North America, Inc.      **Service Request:** K1302607  
**Project No.:** 00980HA131      **Units:** UG/L  
**Project Name:** Arco 980      **Basis:** NA  
**Matrix:** WATER

**Sample Name:** MW-2-8.93D

**Lab Code:** K1302607-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead		10.0	U	10.0	U			6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

**Metals**

- 7 -

**LABORATORY CONTROL SAMPLE**

**Client:** BP Products North America, Inc.

**Service Request:** K1302607

**Project No.:** 00980HA131

**Project Name:** Arco 980

**Aqueous LCS Source:** Inorganic Ventures

**Solid LCS Source:**

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Lead	2500	2410	96.4					

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MW-2-8.93 **Units:** ug/L  
**Lab Code:** K1302607-001 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	70	50-150	04/07/13	Acceptable
n-Triacontane	74	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Diesel and Residual Range Organics - Silica Gel Treated

**Sample Name:** MW-4-15.86 **Units:** ug/L  
**Lab Code:** K1302607-002 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	85	50-150	04/07/13	Acceptable
n-Triacontane	89	50-150	04/07/13	Acceptable

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



ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MW-5-14.92 **Units:** ug/L  
**Lab Code:** K1302607-003 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	99	50-150	04/07/13	Acceptable
n-Triacontane	105	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MW-8-14.36 **Units:** ug/L  
**Lab Code:** K1302607-004 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	79	50-150	04/07/13	Acceptable
n-Triacontane	82	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Diesel and Residual Range Organics - Silica Gel Treated

**Sample Name:** MW-9-15.83 **Units:** ug/L  
**Lab Code:** K1302607-005 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	82	50-150	04/07/13	Acceptable
n-Triacontane	86	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MW-10-14.45 **Units:** ug/L  
**Lab Code:** K1302607-006 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	66	50-150	04/07/13	Acceptable
n-Triacontane	70	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Diesel and Residual Range Organics - Silica Gel Treated

**Sample Name:** MW-11-15.26 **Units:** ug/L  
**Lab Code:** K1302607-007 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	59	50-150	04/07/13	Acceptable
n-Triacontane	60	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MW-12-10.83 **Units:** ug/L  
**Lab Code:** K1302607-008 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	98	50-150	04/07/13	Acceptable
n-Triacontane	102	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** B-1JPHC-11.89 **Units:** ug/L  
**Lab Code:** K1302607-009 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	71	50-150	04/07/13	Acceptable
n-Triacontane	76	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Diesel and Residual Range Organics - Silica Gel Treated

**Sample Name:** B-3JPHC-13.09 **Units:** ug/L  
**Lab Code:** K1302607-010 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	61	50-150	04/07/13	Acceptable
n-Triacontane	65	50-150	04/07/13	Acceptable

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



ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Diesel and Residual Range Organics - Silica Gel Treated

**Sample Name:** MSMSD-1 **Units:** ug/L  
**Lab Code:** K1302607-011 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	63	50-150	04/07/13	Acceptable
n-Triacontane	65	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** NA  
**Date Received:** NA

**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** Method Blank **Units:** ug/L  
**Lab Code:** KWG1302861-5 **Basis:** NA  
**Extraction Method:** EPA 3510C **Level:** Low  
**Analysis Method:** NWTPH-Dx

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diesel Range Organics (DRO)	ND	U	250	1	03/28/13	04/07/13	KWG1302861	
Residual Range Organics (RRO)	ND	U	500	1	03/28/13	04/07/13	KWG1302861	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
o-Terphenyl	72	50-150	04/07/13	Acceptable
n-Triacontane	77	50-150	04/07/13	Acceptable

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

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607

**Surrogate Recovery Summary**  
**Diesel and Residual Range Organics - Silica Gel Treated**

**Extraction Method:** EPA 3510C  
**Analysis Method:** NWTPH-Dx

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
MW-2-8.93	K1302607-001	70	74
MW-4-15.86	K1302607-002	85	89
MW-5-14.92	K1302607-003	99	105
MW-8-14.36	K1302607-004	79	82
MW-9-15.83	K1302607-005	82	86
MW-10-14.45	K1302607-006	66	70
MW-11-15.26	K1302607-007	59	60
MW-12-10.83	K1302607-008	98	102
B-1JPHC-11.89	K1302607-009	71	76
B-3JPHC-13.09	K1302607-010	61	65
MSMSD-1	K1302607-011	63	65
MW-8-14.36DUP	KWG1302861-1	84	84
MSMSD-1DUP	KWG1302861-2	70	72
Method Blank	KWG1302861-5	72	77
Lab Control Sample	KWG1302861-3	84	89
Duplicate Lab Control Sample	KWG1302861-4	69	72

**Surrogate Recovery Control Limits (%)**

---

Sur1 = o-Terphenyl 50-150  
 Sur2 = n-Triacontane 50-150

---

Results flagged with an asterisk (\*) indicate values outside control criteria.  
 Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/28/2013  
**Date Analyzed:** 04/07/2013

**Duplicate Sample Summary**  
**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MW-8-14.36  
**Lab Code:** K1302607-004  
**Extraction Method:** EPA 3510C  
**Analysis Method:** NWTPH-Dx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302861

Analyte Name	MRL	Sample Result	MW-8-14.36DUP KWG1302861-1 Duplicate Sample		Relative Percent Difference	RPD Limit
			Result	Average		
Diesel Range Organics (DRO)	250	ND	ND	ND	-	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/28/2013  
**Date Analyzed:** 04/07/2013

**Duplicate Sample Summary**  
**Diesel and Residual Range Organics - Silica Gel Treated**

**Sample Name:** MSMSD-1  
**Lab Code:** K1302607-011  
**Extraction Method:** EPA 3510C  
**Analysis Method:** NWTPH-Dx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302861

Analyte Name	MRL	Sample Result	MSMSD-1DUP KWG1302861-2 Duplicate Sample		Relative Percent Difference	RPD Limit
			Result	Average		
Diesel Range Organics (DRO)	250	ND	ND	ND	-	30
Residual Range Organics (RRO)	500	ND	ND	ND	-	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/28/2013  
**Date Analyzed:** 04/07/2013

**Lab Control Spike/Duplicate Lab Control Spike Summary**  
**Diesel and Residual Range Organics - Silica Gel Treated**

**Extraction Method:** EPA 3510C  
**Analysis Method:** NWTPH-Dx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302861

Analyte Name	Lab Control Sample KWG1302861-3 Lab Control Spike			Duplicate Lab Control Sample KWG1302861-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Diesel Range Organics (DRO)	2390	3200	75	1880	3200	59	46-140	24	30
Residual Range Organics (RRO)	1140	1600	72	931	1600	58	45-159	21	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-2-8.93  
**Lab Code:** K1302607-001  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	107	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-4-15.86  
**Lab Code:** K1302607-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	106	50-150	03/27/13	Acceptable

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



ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-5-14.92  
**Lab Code:** K1302607-003  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	107	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-8-14.36  
**Lab Code:** K1302607-004  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	107	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-9-15.83  
**Lab Code:** K1302607-005  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	107	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-10-14.45  
**Lab Code:** K1302607-006  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	108	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-11-15.26  
**Lab Code:** K1302607-007  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	106	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MW-12-10.83  
**Lab Code:** K1302607-008  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	110	Y	50	1	03/27/13	03/27/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	105	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** B-1JPHC-11.89  
**Lab Code:** K1302607-009  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	440	Y	50	1	03/27/13	03/27/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	104	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** B-3JPHC-13.09  
**Lab Code:** K1302607-010  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	106	50-150	03/27/13	Acceptable

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



ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** MSMSD-1  
**Lab Code:** K1302607-011  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	106	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Gasoline Range Organics

**Sample Name:** Trip Blank  
**Lab Code:** K1302607-012  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	108	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** NA  
**Date Received:** NA

Gasoline Range Organics

**Sample Name:** Method Blank  
**Lab Code:** KWG1302909-4  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/27/13	03/27/13	KWG1302909	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	107	50-150	03/27/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** NA  
**Date Received:** NA

Gasoline Range Organics

**Sample Name:** Method Blank  
**Lab Code:** KWG1302910-4  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Gasoline Range Organics-NWTPH	ND	U	50	1	03/28/13	03/28/13	KWG1302910	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Difluorobenzene	106	50-150	03/28/13	Acceptable

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

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607

**Surrogate Recovery Summary  
 Gasoline Range Organics**

**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MW-2-8.93	K1302607-001	107
MW-4-15.86	K1302607-002	106
MW-5-14.92	K1302607-003	107
MW-8-14.36	K1302607-004	107
MW-9-15.83	K1302607-005	107
MW-10-14.45	K1302607-006	108
MW-11-15.26	K1302607-007	106
MW-12-10.83	K1302607-008	105
B-1JPHC-11.89	K1302607-009	104
B-3JPHC-13.09	K1302607-010	106
MSMSD-1	K1302607-011	106
Trip Blank	K1302607-012	108
MSMSD-1DUP	KWG1302910-5	106
Method Blank	KWG1302909-4	107
Method Blank	KWG1302910-4	106
MSMSD-1MS	KWG1302910-1	107
MSMSD-1DMS	KWG1302910-2	106
Lab Control Sample	KWG1302909-3	108
Lab Control Sample	KWG1302910-3	107

**Surrogate Recovery Control Limits (%)**

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Sur1 = 1,4-Difluorobenzene 50-150

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Results flagged with an asterisk (\*) indicate values outside control criteria.  
 Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/27/2013  
**Date Analyzed:** 03/27/2013

**Matrix Spike/Duplicate Matrix Spike Summary**  
**Gasoline Range Organics**

**Sample Name:** MSMSD-1  
**Lab Code:** K1302607-011  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302910

Analyte Name	Sample Result	MSMSD-1MS KWG1302910-1 Matrix Spike			MSMSD-1DMS KWG1302910-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Gasoline Range Organics-NWTPH	ND	431	500	86	471	500	94	80-119	9	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/27/2013  
**Date Analyzed:** 03/27/2013

**Duplicate Sample Summary**  
**Gasoline Range Organics**

**Sample Name:** MSMSD-1  
**Lab Code:** K1302607-011  
**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302910

Analyte Name	MRL	Sample Result	MSMSD-1DUP KWG1302910-5 Duplicate Sample		Relative Percent Difference	RPD Limit
			Result	Average		
Gasoline Range Organics-NWTPH	50	ND	ND	ND	-	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/27/2013  
**Date Analyzed:** 03/27/2013

**Lab Control Spike Summary**  
**Gasoline Range Organics**

**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302909

Lab Control Sample  
 KWG1302909-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Gasoline Range Organics-NWTPH	470	500	94	80-119

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 03/28/2013  
**Date Analyzed:** 03/28/2013

**Lab Control Spike Summary**  
**Gasoline Range Organics**

**Extraction Method:** EPA 5030B  
**Analysis Method:** NWTPH-Gx

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1302910

Lab Control Sample  
 KWG1302910-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Gasoline Range Organics-NWTPH	482	500	96	80-119

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-2-8.93  
**Lab Code:** K1302607-001  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	86	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-4-15.86  
**Lab Code:** K1302607-002  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/02/13	Acceptable
Toluene-d8	92	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	85	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-5-14.92  
**Lab Code:** K1302607-003  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	86	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-8-14.36  
**Lab Code:** K1302607-004  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	85	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-9-15.83  
**Lab Code:** K1302607-005  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	86	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-10-14.45  
**Lab Code:** K1302607-006  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	04/02/13	Acceptable
Toluene-d8	92	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	86	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-11-15.26  
**Lab Code:** K1302607-007  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	88	68-117	04/02/13	Acceptable

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



ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MW-12-10.83  
**Lab Code:** K1302607-008  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	96	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** B-1JPHC-11.89  
**Lab Code:** K1302607-009  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	65		0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	0.70		0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	8.2		0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	6.1		0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	6.0		0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	89	73-122	04/02/13	Acceptable
Toluene-d8	92	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	101	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** B-3JPHC-13.09  
**Lab Code:** K1302607-010  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	73-122	04/02/13	Acceptable
Toluene-d8	92	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	85	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** MSMSD-1  
**Lab Code:** K1302607-011  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	04/02/13	Acceptable
Toluene-d8	93	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	86	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** 03/20/2013  
**Date Received:** 03/22/2013

Volatile Organic Compounds

**Sample Name:** Trip Blank  
**Lab Code:** K1302607-012  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	04/02/13	Acceptable
Toluene-d8	92	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	85	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

Analytical Results

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Collected:** NA  
**Date Received:** NA

Volatile Organic Compounds

**Sample Name:** Method Blank  
**Lab Code:** KWG1303009-4  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Methyl tert-Butyl Ether	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Benzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Toluene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
Ethylbenzene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
m,p-Xylenes	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	
o-Xylene	ND	U	0.50	1	04/02/13	04/02/13	KWG1303009	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	04/02/13	Acceptable
Toluene-d8	91	65-144	04/02/13	Acceptable
4-Bromofluorobenzene	89	68-117	04/02/13	Acceptable

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

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607

**Surrogate Recovery Summary**  
**Volatile Organic Compounds**

**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** PERCENT  
**Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-2-8.93	K1302607-001	94	93	86
MW-4-15.86	K1302607-002	95	92	85
MW-5-14.92	K1302607-003	93	93	86
MW-8-14.36	K1302607-004	95	93	85
MW-9-15.83	K1302607-005	96	93	86
MW-10-14.45	K1302607-006	96	92	86
MW-11-15.26	K1302607-007	96	93	88
MW-12-10.83	K1302607-008	95	93	96
B-1JPHC-11.89	K1302607-009	89	92	101
B-3JPHC-13.09	K1302607-010	95	92	85
MSMSD-1	K1302607-011	96	93	86
Trip Blank	K1302607-012	91	92	85
Method Blank	KWG1303009-4	90	91	89
MSMSD-1MS	KWG1303009-1	93	100	100
MSMSD-1DMS	KWG1303009-2	91	99	100
Lab Control Sample	KWG1303009-3	92	99	101

**Surrogate Recovery Control Limits (%)**

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Sur1 = Dibromofluoromethane	73-122
Sur2 = Toluene-d8	65-144
Sur3 = 4-Bromofluorobenzene	68-117

---

Results flagged with an asterisk (\*) indicate values outside control criteria.  
 Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 04/02/2013  
**Date Analyzed:** 04/02/2013

**Matrix Spike/Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds**

**Sample Name:** MSMSD-1  
**Lab Code:** K1302607-011  
**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1303009

Analyte Name	Sample Result	MSMSD-1MS KWG1303009-1 Matrix Spike			MSMSD-1DMS KWG1303009-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Methyl tert-Butyl Ether	ND	9.26	10.0	93	9.39	10.0	94	54-126	1	30
Benzene	ND	9.41	10.0	94	9.49	10.0	95	63-144	1	30
Toluene	ND	9.85	10.0	99	9.83	10.0	98	71-136	0	30
Ethylbenzene	ND	10.1	10.0	101	10.1	10.0	101	66-136	0	30
m,p-Xylenes	ND	20.8	20.0	104	21.0	20.0	105	67-135	1	30
o-Xylene	ND	10.5	10.0	105	10.8	10.0	108	67-127	3	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS ENVIRONMENTAL

QA/QC Report

**Client:** BP Products North America, Inc.  
**Project:** Arco 980/00980HA131  
**Sample Matrix:** Water

**Service Request:** K1302607  
**Date Extracted:** 04/02/2013  
**Date Analyzed:** 04/02/2013

**Lab Control Spike Summary**  
**Volatile Organic Compounds**

**Extraction Method:** EPA 5030B  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA  
**Level:** Low  
**Extraction Lot:** KWG1303009

Lab Control Sample  
 KWG1303009-3  
**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Methyl tert-Butyl Ether	8.46	10.0	85	54-126
Benzene	9.87	10.0	99	69-124
Toluene	10.3	10.0	103	69-124
Ethylbenzene	10.7	10.0	107	67-121
m,p-Xylenes	22.2	20.0	111	69-121
o-Xylene	11.0	10.0	110	71-119

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



## ***Appendix B***

Field Data Sheets



anteagroup

FIELD ACTIVITY LOG

BEGINNING ODOMETER:		DATE: 3/20/13	
ENDING ODOMETER:		PROJECT NUMBER: 00980HA131	
FIELD ACTIVITY SUBJECT: Low Flow GWS		RECORDED BY: ES	REVIEWED BY:
TIME	DESCRIPTION OF ACTIVITIES AND EVENTS	SKETCH:	
0945	Antea Group personnel E. Sanchez, B. Bickler on site, sign into Hasp, check in w/ station manager		
0800	Begin graging @ MW-11		
1350	Sampling complete, samples on Ice, emptied purge water in drum at BP11062, reconnected, packed equipment		
1410	Moved to remediation system, picked up trash, unclogged drain pipe from secondary containment.		
1415	System compound locked, Sign out of HASP		
1420	Antea Group personnel off-site		
WEATHER CONDITIONS: 46°, rain		CHANGES IN PLANS, SPECS., NEW ISSUES, FOLLOW UP NEEDED	
AMBIENT AIR MONITORING:			
VISITORS ONSITE:		TELEPHONE CALLS:	
ANTEA GROUP PERSONNEL ONSITE: E. Sanchez, B. Bickler			



# GROUNDWATER SAMPLING FIELD SHEET

PROJECT NUMBER: 00980HA131

CLIENT: Atlantic Richfield Co.

SITE No./JOB No.: Arco 980

PAGE: 1 of     

SITE ADDRESS/LOCATION: 10822 Roosevelt Way NE, Seattle, WA

DATE: 3/20/15

FIELD PERSONNEL: E. Sanchez, R. Bickler

WEATHER: 40°, Rain

Well ID	Time	Well Diameter (in.)	Depth to Bottom (feet)	Depth to Water (feet)	Depth to LPH (feet)	LPH Thickness (feet)	Calc. Purge (gal)	Actual Purge (gal)	Purge Method (B/F/P)	Dissolved Oxygen (mg/l)	Sample Appearance/Comments
MW-1	-	4	-	1.39	-	-	-	-	-	-	
MW-2	1045	4	-	8.93	-	-	-	-	LF	-	
MW-3	-	4	-	8.91	-	-	-	-	-	-	
MW-4	0945	4	-	15.86	-	-	-	-	LF	-	
MW-5	1010	4	-	14.92	-	-	-	-	LF	-	
MW-6	-	4	-	9.33	-	-	-	-	-	-	
MW-7	-	4	-	14.20	-	-	-	-	-	-	
MW-8	1345	4	-	14.36	-	-	-	-	LF	-	
MW-9	1320	4	-	15.83	-	-	-	-	LF	-	
MW-10	1230	4	-	14.45	-	-	-	-	LF	-	HSD-1 Collected @ 1240
MW-11	0920	4	-	15.26	-	-	-	-	LF	-	
MW-12	1120	4	-	10.83	-	-	-	-	LF	-	
B-1 JPHC	1145	2	-	11.89	-	-	-	-	LF	-	
B-3 JPHC	1210	2	-	13.09	-	-	-	-	LF	-	

System Instructions:	Remedial System On-Site (Y/N)?	Comments:
	Operational Upon Arrival (Y/N)?	Comments:
	Shut Down System 1 / 24 hours before gauging (Y/N)?	Time/Date Downed:
	Re-Start System (Y/N)?	Time/Date Restarted:
	Purge Method: <u>Low Flow</u>	Comments:

Purge Water Disposal Method:

Treated through mobile carbon treatment unit and discharged on-site

Placed in drums on site No. of drums:     

Transported off-site for treatment Facility/Location: Former BP 110062

Measuring Device(s): Geo Tech Intertube Probe, Horiba U-22, GeoTech Peristaltic Pump



# GROUNDWATER SAMPLING FIELD SHEET

## Additional Parameters

PROJECT NUMBER: 009864A131  
 SITE No./JOB No.: Arzo 980  
 SITE ADDRESS/LOCATION: \_\_\_\_\_  
 FIELD PERSONNEL: E. Sanchez, B. Bickler

CLIENT: Atlantic Richfield Co.  
 PAGE: 1 of \_\_\_\_\_  
 DATE: 3/20/13  
 WEATHER: 41°, Rain

Additional Field Parameters: (Pre-Purge / Post-Purge / Low-flow Cell)

Well ID	Temp. (°F)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Reading Time	Comments
mw-11	13.1	0.90	0.4	1.20	6.10	173	0.00	0905	
	13.0	0.90	0.79	0.98	6.09	168	2.3	0908	
	13.0	0.90	0.70	0.84	6.09	163	2.4	0911	
	12.9	0.90	0.65	0.82	6.08	156	4.4	0914	Sample @ 0920
mw-4	13.0	0.887	0.57	0.84	6.37	146	0.9	0934	
	12.9	0.893	0.57	0.79	6.38	143	0.0	0937	
	12.8	0.881	0.55	0.82	6.37	142	0.0	0940	Sample @ 0945
	12.9	0.874	0.56	0.79	6.37	142	0.0	0943	
mw-5	12.5	0.999	0.76	1.37	6.45	155	0.0	1000	
	12.4	0.90	0.77	1.33	6.50	157	0.0	1003	
	12.5	0.90	0.79	1.30	6.57	160	0.0	1006	Sample @ 1010
mw-2	13.0	0.551	0.37	0.99	7.04	122	0.9	1030	
	13.1	0.477	0.31	0.84	7.26	109	42.3	1033	
	13.1	0.479	0.28	0.73	7.39	101	45.1	1036	
	13.2	0.402	0.26	0.72	7.46	96	43.9	1039	
	13.2	0.412	0.27	0.70	7.52	92	33.3	1042	Sample @ 1045
mw-12	12.3	1.04	0.7	1.25	6.07	174	41.6	1100	
	12.4	1.02	0.7	1.30	5.92	180	21.0	1109	
	12.3	1.01	0.6	1.43	5.85	185	31.7	1112	
	12.3	1.00	0.6	1.34	5.82	187	31.0	1115	Sample @ 1120

Measuring Device(s): Geotech peristaltic pump, Horiba U-22

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



# GROUNDWATER SAMPLING FIELD SHEET

## Additional Parameters

PROJECT NUMBER: 00980HA131  
 SITE No./JOB No.: Acro 980  
 SITE ADDRESS/LOCATION: \_\_\_\_\_  
 FIELD PERSONNEL: E. Sanchez, B. Bickler

CLIENT: Atlanta R2L Field Co.  
 PAGE: 3 of \_\_\_\_\_  
 DATE: 2/20/13  
 WEATHER: 46° Rain

Additional Field Parameters: (Pre-Purge / Post-Purge / <u>Low-flow Cell</u> )									
Well ID	Temp. (°C/°F)	Conduc tivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Turbidity (NTU)	Reading Time	Comments
B-1	12.9	0.581	0.34	5.26	6.36	46	10.0	1128	
JPHC	13.1	0.999	0.65	4.59	6.41	9	37.9	1131	
	13.0	0.999	0.78	3.23	6.37	24	29.3	1134	
	13.1	0.999	0.90	2.71	6.39	-10	27.1	1137	
	13.1	0.999	0.95	2.44	6.38	-15	18.2	1140	D.O. not stabilizing
	13.2	0.999	0.99	2.80	6.40	-15	6.8	1143	Sample @ 1145
B-35PHC	13.4	0.999	1.07	3.23	6.91	14	59.9	1159	
	13.4	0.999	1.14	3.25	6.93	29	36.6	1201	
	13.3	0.999	1.22	3.24	6.89	42	27.4	1204	1210
MW-16	12.4	0.83	0.6	3.32	6.16	11	1.8	1222	
	12.4	0.90	0.5	3.26	6.14	119	0.0	1225	MS/MSD-1 @ 1240
	12.3	0.910	0.4	3.33	6.20	125	0.0	1228	Sample @ 1230
MW-9	12.3	1.80	1.2	1.46	6.04	173	0.0	1305	
	12.6	2.36	1.5	1.39	6.04	174	0.0	1308	
	12.1	2.49	1.6	1.38	6.04	177	0.0	1311	
	12.1	2.57	1.7	1.39	6.05	179	0.0	1314	sample @ 1320
MW-8	13.2	0.999	1.53	1.69	5.56	220	29.6	1335	
	13.0	0.999	1.61	1.69	5.57	219	16.8	1338	
	13.1	0.999	1.71	1.71	5.57	223	11.8	1341	sample @ 1345

Measuring Device(s): Geotech Peristaltic pump, Horiba U-22

Additional Comments:

Project Name <del>00980HA/31</del> Arco 980					Number of Containers	14D	28D	180D	999D																											
Project Number 00980HA/31										8260C / VOC FP BTEX / MTBE	14D	28D	180D	999D	NWTPH-Dx / NW TPH SGT	NWTPH-Gx / NW_GAS	300.0 / SO4	6010C LL / Metals D	6010C LL / Metals T	Filter Met / Filter Met	None / Misc Out 1	None / Misc Out 2	None / Misc Out 3	None / Misc Out 4	None / Misc Out 5											
Project Manager Bryan Taylor																																				
Company Name Antea Group																																				
Company Address 4006 148 <sup>th</sup> Ave NE																																				
City/State/Zip Redmond, WA 98052																																				
E-Mail Address bryan.taylor@anteagroup.com																																				
Phone # 425-498-7727																																				
FAX #																																				
Sampler Signature																																				
Sample ID	Date	Time	Lab ID	Matrix																																
MW-2-8.93	3/20/13	1045		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-4-15.86	3/20/13	0945		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-5-14.92	3/20/13	1010		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-8-14.36	3/20/13	1345		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-9-15.83	3/20/13	1320		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-10-14.45	3/20/13	1230		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-11-15.26	3/20/13	0920		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MW-12-10.83	3/20/13	1120		H <sub>2</sub> O	9	✓	✓	✓		✓																										
B-1JPHC-11.89	3/20/13	1145		H <sub>2</sub> O	9	✓	✓	✓		✓																										
B-3JPHC-13.09	3/20/13	1210		H <sub>2</sub> O	9	✓	✓	✓		✓																										
MSMSD-1	3/24/13	1240		H <sub>2</sub> O	16	✓	✓	✓		✓																										

**Report Requirements**

I. Routine Report: Method Blank, Surrogate, as required

II. Report Dup., MS, MSD as required

III. Data Validation Report (includes all raw data)

IV. CLP Deliverable Report

V. EDD

**Invoice Information**

P.O.# 00980HA/31

Bill To: Antea Group  
4006 148<sup>th</sup> Ave NE  
Redmond, WA 98052

**Turnaround Requirements**

24 hr.  48 hr.

5 Day

Standard (10-15 working days)

Provide Fax Results

Requested Report Date \_\_\_\_\_

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe  Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Special Instructions/Comments: \*Indicate State Hydrocarbon Procedure: AK CA WI  Northwest Other \_\_\_\_\_ (Circle One)

Sample Shipment contains USDA regulated soil samples (check box if applicable)

Relinquished By:

Eric Sanchez 3/22/13 11:50  
Signature Date/Time  
Eric Sanchez Antea  
Printed Name Firm

Received By:

Chokkoney 3-22-13 11:50  
Signature Date/Time  
Chokkoney ALS  
Printed Name Firm

Relinquished By:

\_\_\_\_\_  
Signature Date/Time  
\_\_\_\_\_  
Printed Name Firm

Received By:

\_\_\_\_\_  
Signature Date/Time  
\_\_\_\_\_  
Printed Name Firm