

ARCO Station 5218
Seattle
LUST 4609

SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS

September 23, 2009

Ms. Gayle Garbush
Washington Department of Ecology
Northwest Regional Office
3190 – 160th Avenue SE
Bellevue, WA 98008

Re: ARCO Facility No. 5218
7200 E. Marginal Way South, Seattle, WA

Ms. Garbush:

The following correspondence prepared by Delta Consultants is attached for your review:

- Ground Water Monitoring Report – September 22, 2009

Please contact me if you have additional questions or require additional information regarding the above referenced site.

Sincerely,

DELTA CONSULTANTS

Markham C. Hurd
Senior Project Manager

cc: Paul Supple, Atlantic Richfield Company (ENFOS only)
Derek Tornow, Delta Consultants



a member of:



4006 148TH AVENUE NE REDMOND, WASHINGTON 98052 USA
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GROUND WATER MONITORING REPORT

Atlantic Richfield Company
First and Second Quarters of 2009
September 22, 2009



ARCO Facility No.: 5218
Address: 7200 E. Marginal Way S. Seattle, WA
Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: Delta Consultants/Markham C. Hurd
Consultant Project Number: 05218QA091
Primary Agency/Regulatory ID No.: Washington State Department of Ecology/8788

WORK PERFORMED DURING THE FIRST AND SECOND QUARTERS OF 2009:

- Delta conducted semi-annual ground water monitoring and sampling on March 5, 2009.
- Delta prepared this semi-annual ground water monitoring report.

WORK SCHEDULED FOR THE THIRD AND FOURTH QUARTERS OF 2009:

- Delta will conduct semi-annual ground water monitoring and sampling.
- Delta will prepare a semi-annual ground water monitoring report.

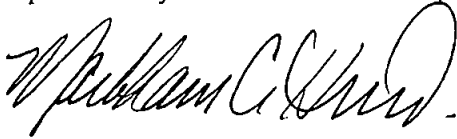
Current Phase of Project:	Monitoring	(Phase I, Addtl Assmnt RAP/CAP, Remed., etc)
Frequency of Ground Water Sampling and Monitoring:	Semi-annual	(Quarterly, etc)
Are LPH Present On-Site:	No	(Yes/No)
LPH Recovered this Reporting Period:	None	(Gallons)
Cumulative LPH Recovered to Date:	None	(Gallons)
Amount of Soil Removed to Date:	Soil Cuttings (Volume not documented; Geraghty & Miller) No impacted soil detected or removed from the site during the UST replacement activities in 2002.	(Cubic yards/tons)
Current Remediation Techniques:	Natural Attenuation	(SVES/Sparge/Pump and Treat)
Approximate Depth to Ground Water:	10.75 to 11.51	(Feet)
Ground Water Gradient:	Southwest	(Direction)
	<0.01 feet/linear foot	(Magnitude)

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The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta 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 Delta's client and the Department of Ecology. Delta will not and cannot be liable for unauthorized reliance by any other party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.



Markham C. Hurd
Senior Project Manager

- Attachments:
- Table 1 – Summary of Ground Water Data
 - Figure 1 – Site Location Map
 - Figure 2 – Site Aerial Map
 - Figure 3 – Inferred Water Table Contour Map – 3/05/09
 - Figure 4 – BV-1 Hydrocarbon Concentrations and Water Elevations vs. Time
 - Figure 5 – BV-3 Hydrocarbon Concentrations and Water Elevations vs. Time
 - Test America Analytical Lab Report
 - Field Data Sheets

TABLE 1
SUMMARY OF GROUND WATER DATA
ARCO FACILITY NO. 5218
7200 E. MARGINAL WAY S.
SEATTLE, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (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	13.75	09/13/94	11.54	2.21	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-1	13.75	12/09/94	10.94	2.81	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	5.9	NA	P
MW-1	13.75	03/17/95	9.73	4.02	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	06/20/95	10.99	2.76	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	09/15/95	11.41	2.34	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	12/22/95	10.20	3.55	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-1	13.75	03/15/96	10.15	3.60	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	06/14/96	10.78	2.97	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	09/04/96	11.14	2.61	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-1	13.75	12/03/96	10.65	3.10	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-1	13.75	03/10/97	10.04	3.71	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	08/18/97	10.92	2.83	0.6	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
MW-1	13.75	03/13/98	10.03	3.72	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	09/18/98	11.42	2.33	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	03/02/99	9.27	4.48	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	09/28/99	11.50	2.25	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	03/15/00	10.37	3.38	1.29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	08/25/00	11.38	2.37	2.06	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	03/22/01	11.02	2.73	1.36	<0.500	<0.500	<0.500	1.08	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	08/31/01	11.38	2.37	17.8	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	02/27/02	10.05	3.70	0.5	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	09/06/02	11.19	2.56	0.9	<0.500	0.628	<0.500	<1.00	<2.00	<0.01	<1.00	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	02/14/03	10.37	3.38	0.4	<0.500	1.36	<0.500	<1.00	<1.00	NA	NA	332	NA	NA	NA	NA	NP
MW-1	13.75	07/24/03	11.00	2.75	1.6	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	03/19/04	10.32	3.43	2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	10/08/04	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	03/03/05	11.02	2.73	1.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	08/29/05	10.32	3.43	NM	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-1	13.75	03/12/06	10.00	3.75	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	03/01/07	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	02/18/08	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	07/23/08	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	13.75	03/05/09	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	09/13/94	10.30	3.64	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	12/09/94	11.23	2.71	0.7	<0.5	<0.5	<0.5	<0.1	NA	NA	NA	<50	NA	NA	NA	NA	NP
MW-2	13.94	03/17/95	10.41	3.53	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	06/20/95	11.80	2.14	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	09/15/95	10.97	2.97	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	12/22/95	11.46	2.48	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	03/15/96	11.22	2.72	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	06/14/96	10.50	3.44	NM	<0.5	0.74	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	09/04/96	11.00	2.94	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P

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7200 E. MARGINAL WAY S.
SEATTLE, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (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	13.94	12/03/96	11.71	2.23	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	03/10/97	10.04	3.90	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	08/18/97	10.47	3.47	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	03/13/98	11.23	2.71	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-2	13.94	09/18/98	11.67	2.27	0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	03/02/99	9.56	4.38	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	09/28/99	11.79	2.15	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	03/15/00	10.62	3.32	0.67	<0.500	<0.500	<0.500	1.23	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	08/25/00	11.75	2.19	0.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	03/22/01	11.31	2.63	0.4	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	08/31/01	11.65	2.29	16.9	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	02/27/02	10.36	3.58	0.1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	09/06/02	11.45	2.49	0.6	<0.500	0.694	<0.500	<1.00	2.31	<0.01	<1.00	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	02/14/03	10.63	3.31	NM	<0.500	0.603	0.654	1.87	<1.00	NA	NA	126	NA	NA	NA	NA	NP
MW-2	13.94	07/24/03	11.27	2.67	1.7	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	03/19/04	10.62	3.32	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	10/08/04	11.23	2.71	1.5	0.2	<0.500	0.67	<1.00	<2.00	NA	NA	<80.0	NA	NA	NA	NA	NP
MW-2	13.94	03/03/05	10.47	3.47	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	08/29/05	10.59	3.35	2.8	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	03/12/06	10.27	3.67	2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	03/01/07	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	13.94	02/18/08	10.83	3.11	2.3	<0.500	<0.500	<0.500	<3.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	07/23/08	11.45	2.49	1.09	<0.500	<0.500	<0.500	<3.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-2	13.94	03/05/09	10.75	3.19	0.8	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	09/13/94	12.19	2.02	NM	<0.5	0.52	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	12/09/94	11.55	2.66	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	03/17/95	10.44	3.77	NM	<0.5	0.52	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	06/20/95	11.65	2.56	NM	0.83	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	09/15/95	12.09	2.12	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	12/22/95	10.88	3.33	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	03/15/96	10.95	3.26	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	11.0	NA	P
MW-3	14.21	06/14/96	11.18	3.03	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	<2.0	NA	P
MW-3	14.21	09/04/96	11.83	2.38	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-3	14.21	12/03/96	11.34	2.87	NM	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	P
MW-3	14.21	03/10/97	10.79	3.42	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	08/18/97	11.64	2.57	0.6	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	NA	NP
MW-3	14.21	03/13/98	10.76	3.45	0.3	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	<1.0	NP
MW-3	14.21	09/18/98	12.14	2.07	1.0	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	<50	NA	NA	NA	<1.0	NP
MW-3	14.21	03/02/99	10.08	4.13	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	09/28/99	12.18	2.03	NM	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	03/15/00	11.02	3.19	1.45	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	08/25/00	12.25	1.96	1.21	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)	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	14.21	03/22/01	11.41	2.80	0.72	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	08/31/01	12.04	2.17	17.1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	02/27/02	10.84	3.37	0.6	<0.500	0.512	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	09/06/02	11.84	2.37	0.4	<0.500	<0.500	<0.500	<1.00	<2.00	<0.01	<1.00	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	02/14/03	11.10	3.11	0.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	07/24/03	11.80	2.41	1.6	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	<50.0	NA	NA	NA	NA	NP
MW-3	14.21	03/19/04	11.13	3.08	0.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	10/08/04	11.76	2.45	1.6	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	<80.0	NA	NA	NA	NA	NP
MW-3	14.21	03/03/05	11.36	2.85	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	08/29/05	11.25	2.96	1.1	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	56.5	NA	NA	NA	NA	NP
MW-3	14.21	03/12/06	10.75	3.46	2.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	03/01/07	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	02/18/08	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	07/23/08	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	14.21	03/05/09	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	14.23	09/13/94	12.17	2.06	NM	690	1,100	930	3,400	NA	NA	NA	15,000	NA	NA	<2.0	NA	P
BV-1	14.23	12/09/94	11.53	2.70	NM	610	1,700	1,100	5,600	NA	NA	NA	32,000	NA	NA	<2.0	NA	P
BV-1	14.23	03/17/95	10.38	3.85	NM	140	110	190	500	NA	NA	NA	2,300	NA	NA	<2.0	NA	P
BV-1	14.23	06/20/95	11.60	2.63	NM	390	400	360	1,100	NA	NA	NA	16,000	NA	NA	<2.0	NA	P
BV-1	14.23	09/15/95	12.06	2.17	NM	390	740	720	2,000	NA	NA	NA	18,000	NA	NA	<2.0	NA	P
BV-1	14.23	12/22/95	10.85	3.38	NM	330	710	680	3,800	NA	NA	NA	23,000	NA	NA	<2.0	NA	P
BV-1	14.23	03/15/96	10.86	3.37	NM	200	95	350	640	NA	NA	NA	4,600	NA	NA	2.4	NA	P
BV-1	14.23	06/14/96	11.51	2.72	NM	223	217	408	778	NA	NA	NA	5,460	NA	NA	<2.0	NA	P
BV-1	14.23	09/04/96	11.83	2.40	NM	170	266	357	957	NA	NA	NA	5,740	NA	NA	NA	NA	P
BV-1	14.23	12/03/96	11.34	2.89	NM	393	1,090	1,160	5,190	NA	NA	NA	27,200	NA	NA	NA	NA	P
BV-1	14.23	03/10/97	10.75	3.48	0.5	140	144	382	1,080	NA	NA	NA	10,700	NA	NA	NA	NA	NP
BV-1	14.23	08/18/97	11.57	2.66	0.5	496	1,060	1,540	5,630	NA	NA	NA	35,400	NA	NA	NA	NA	NP
BV-1	14.23	03/13/98	10.70	3.53	0.3	192	77.6	556	484	NA	NA	NA	5,420	NA	NA	NS	NS	NP
BV-1	14.23	09/18/98	12.03	2.20	0.9	178	94.1	456	1,260	NA	NA	NA	6,750	NA	NA	NA	<1.0	NP
BV-1	14.23	03/02/99	9.97	4.26	0.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-1	14.23	09/28/99	12.16	2.07	NM	168	106	496	1,760	NA	NA	NA	9,190	NA	NA	NA	NA	NP
BV-1	14.23	03/15/00	11.00	3.23	0.39	95.3	30.6	324	375	NA	NA	NA	3,390	NA	NA	NA	NA	NP
BV-1	14.23	08/25/00	12.00	2.23	0.81	130	54.4	763	1,670	NA	NA	NA	10,800	NA	NA	NA	NA	NP
BV-1	14.23	03/22/01	11.36	2.87	0.43	11.5	4.76	52.1	174	22.4	NA	NA	1,100	NA	NA	NA	NA	NP
BV-1	14.23	08/31/01	12.06	2.17	10.0	103	32	968	1,820	45.1	NA	NA	12,400	NA	NA	NA	NA	NP
BV-1	14.23	02/27/02	10.75	3.48	1.2	57.1	6.06	352	241	28.5	NA	NA	2,700	NA	NA	NA	NA	NP
BV-1	14.23	09/06/02	11.82	2.41	0.8	78.1	14.3	822	794	39.6	<0.01	<1.00	5,150	NA	NA	NA	NA	NP
BV-1	14.23	02/14/03	11.01	3.22	0.3	48.5	5.98	256	155	124	NA	NA	1,690	NA	NA	NA	NA	NP
BV-1	14.23	07/24/03	11.71	2.52	1.3	31.5	8.1	283	565	41.9	NA	NA	3,350	NA	NA	NA	NA	NP
BV-1	14.23	03/19/04	11.06	3.17	0.2	32.5	5	478	346	25.9	NA	NA	3,720	NA	NA	NA	NA	NP
BV-1	14.23	10/08/04	11.20	3.03	2.4	31.7	4.14	206	535	20.9	NA	NA	3,260	NA	NA	NA	NA	NP
BV-1	14.23	03/03/05	10.83	3.40	0.8	5.98	<0.500	5.01	2.95	12.9	NA	NA	175	NA	NA	NA	NA	NP

TABLE 1
SUMMARY OF GROUND WATER DATA
ARCO FACILITY NO. 5218
7200 E. MARGINAL WAY S.
SEATTLE, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (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	14.23	08/29/05	11.08	3.15	1.4	50.0	16.1	413	1,090	19.8	NA	NA	7,790	NA	NA	NA	NA	NP
BV-1	14.23	03/12/06	10.69	3.54	1.2	27.4	5.4	281	113	14.3	NA	NA	2,470	NA	NA	NA	NA	NP
BV-1	14.23	03/01/07	10.85	3.38	7.98	3.71	<0.500	<0.500	1.36	NA	NA	NA	211	NA	NA	NA	NA	NP
BV-1	14.23	02/18/08	11.22	3.01	1.9	2.42	<0.500	6.56	<3.00	NA	NA	NA	1,290	NA	NA	NA	NA	NP
BV-1	14.23	07/23/08	11.84	2.39	1.73	67.9	10.8	72.4	85.3	NA	NA	NA	1,850	NA	NA	NA	NA	NP
BV-1	14.23	03/05/09	11.07	3.16	0.5	138	1.19	34.2	26.9	NA	NA	NA	978	NA	NA	NA	NA	NP
BV-2	13.93	09/13/94	11.89	2.04	NM	160	12	16	340	NA	NA	NA	1,100	NA	NA	4.3	NA	P
BV-2	13.93	12/09/94	11.24	2.69	NM	150	17	15	240	NA	NA	NA	6,900	NA	NA	7.7	NA	P
BV-2	13.93	03/17/95	10.12	3.81	NM	29	4.6	6.2	560	NA	NA	NA	7,400	NA	NA	3.9	NA	P
BV-2	13.93	06/20/95	11.35	2.58	NM	86	7.5	9.9	490	NA	NA	NA	13,000	NA	NA	4.6	NA	P
BV-2	13.93	09/15/95	11.78	2.15	NM	62	4	8.6	340	NA	NA	NA	14,000	NA	NA	<2.0	NA	P
BV-2	13.93	12/22/95	10.57	3.36	NM	17	0.93	5.7	130	NA	NA	NA	8,200	NA	NA	8.6	NA	P
BV-2	13.93	03/15/96	10.62	3.31	NM	<0.8	0.91	1.1	32	NA	NA	NA	12,000	NA	NA	13	NA	P
BV-2	13.93	06/14/96	11.30	2.63	NM	7.56	0.776	1.65	132	NA	NA	NA	3,380	NA	NA	5.1	NA	P
BV-2	13.93	09/04/96	11.55	2.38	NM	18.4	<5.0	<5.0	205	NA	NA	NA	7,380	NA	NA	NA	NA	P
BV-2	13.93	12/03/96	11.06	2.87	NM	8.32	0.511	1.1	94.4	NA	NA	NA	3,330	NA	NA	NA	NA	P
BV-2	13.93	03/10/97	10.51	3.42	0.5	25.6	6.24	8.14	368	NA	NA	NA	14,200	NA	NA	NA	NA	NP
BV-2	13.93	08/18/97	11.33	2.60	0.5	43.3	5.16	6.38	283	NA	NA	NA	6,300	NA	NA	NA	NA	NP
BV-2	13.93	03/13/98	10.45	3.48	0.3	60.9	4.5	4.19	272	NA	NA	NA	8,710	NA	NA	NA	8.91	NP
BV-2	13.93	09/18/98	11.91	2.02	1.3	<30	<0.5	<2.5	170	NA	NA	NA	6,780	NA	NA	NA	3.18	NP
BV-2	13.93	03/02/99	9.70	4.23	0.3	46.8	<3.00	<3.10	113	NA	NA	NA	5,740	NA	NA	NA	9.77	NP, 1
BV-2	13.93	09/28/99	11.88	2.05	NM	<2.50	22.3	4.64	210	NA	NA	NA	8,740	NA	NA	NA	NA	NP
BV-2	13.93	03/15/00	10.75	3.18	0.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
BV-2	13.93	08/25/00	11.81	2.12	0.39	8.49	<1.67	1.31	3.98	NA	NA	NA	2,110	NA	NA	NA	NA	NP
BV-2	13.93	03/22/01	11.42	2.51	0.38	9.28	<0.500	0.657	18.5	<5.00	NA	NA	1,750	NA	NA	NA	NA	NP, a
BV-2	13.93	08/31/01	11.78	2.15	11.9	22.8	<2.50	<2.50	23.9	<10.0	NA	NA	2,860	NA	NA	NA	NA	NP, a
BV-2	13.93	02/27/02	10.49	3.44	0.2	35	<2.50	<2.50	30.4	<5.00	NA	NA	5,200	NA	NA	NA	NA	NP, a
BV-2	13.93	09/06/02	11.54	2.39	0.7	18.5	1.41	2.08	29.9	<2.00	<0.01	<1.00	3,890	NA	NA	NA	NA	NP, a
BV-2	13.93	02/14/03	10.77	3.16	NM	23.5	<2.50	<2.50	25.1	<8.00	NA	NA	4,590	NA	NA	NA	NA	NP, a
BV-2	13.93	07/24/03	11.49	2.44	1.3	20.5	<2.50	4.81	61.2	<20.0	NA	NA	6,050	NA	NA	NA	NA	NP, a
BV-2	13.93	03/19/04	10.82	3.11	0.4	23.6	<2.50	2.74	23.7	<5.00	NA	NA	4,690	NA	NA	NA	NA	NP, a
BV-2	13.93	10/08/04	11.40	2.53	2.0	<0.200	0.56	0.78	15.1	<2.00	NA	NA	2,900	NA	NA	NA	NA	NP
BV-2	13.93	03/03/05	10.62	3.31	1.1	<0.200	<0.500	<0.500	<1.00	<2.00	NA	NA	1,990	NA	NA	NA	NA	NP
BV-2	13.93	08/29/05	10.80	3.13	1.5	28.2	4.04	<2.50	30.2	<1.00	NA	NA	5,990	NA	NA	NA	NA	NP
BV-2	13.93	03/12/06	10.40	3.53	1.3	<0.500	<0.500	<0.500	<1.00	<1.00	NA	NA	2,030	NA	NA	NA	NA	NP
BV-2	13.93	03/01/07	10.60	3.33	8.46	<0.500	<0.500	<0.500	<1.00	NA	NA	NA	1,850	NA	NA	NA	NA	NP
BV-2	13.93	02/18/08	11.10	2.83	1.4	40.4	291	1,990	5,960	NA	NA	NA	1,130	NA	NA	NA	NA	NP
BV-2	13.93	07/23/08	11.57	2.36	0.64	<0.500	<0.500	<0.500	<3.00	NA	NA	NA	758	NA	NA	NA	NA	NP
BV-2	13.93	03/05/09	10.76	3.17	0.6	10.9	<0.500	<0.500	1.59	NA	NA	NA	1,350	NA	NA	NA	NA	NP
BV-3	14.65	09/13/94	12.65	2.00	NM	980	12,000	4,200	20,000	NA	NA	NA	87,000	NA	NA	8.5	NA	P
BV-3	14.65	12/09/94	12.00	2.65	NM	610	8,300	4,500	22,000	NA	NA	NA	100,000	NA	NA	8.6	NA	P

TABLE 1
SUMMARY OF GROUND WATER DATA
ARCO FACILITY NO. 5218
7200 E. MARGINAL WAY S.
SEATTLE, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (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	14.65	03/17/95	10.88	3.77	NM	370	3,400	3,700	1,800	NA	NA	NA	61,000	NA	NA	7.0	NA	P
BV-3	14.65	06/20/95	12.11	2.54	NM	890	6,500	2,800	13,000	NA	NA	NA	91,000	NA	NA	9.4	NA	P
BV-3	14.65	09/15/95	12.55	2.10	NM	900	10,000	4,000	17,000	NA	NA	NA	93,000	NA	NA	3.6	NA	P
BV-3	14.65	12/22/95	11.34	3.31	NM	520	4,900	3,800	17,000	NA	NA	NA	91,000	NA	NA	8.3	NA	P
BV-3	14.65	03/15/96	11.35	3.30	NM	180	2,600	3,200	15,000	NA	NA	NA	69,000	NA	NA	7.1	NA	P
BV-3	14.65	06/14/96	12.00	2.65	NM	529	5,050	3,510	17,400	NA	NA	NA	81,100	NA	NA	6.04	NA	P
BV-3	14.65	09/04/96	12.31	2.34	NM	579	7,100	3,270	16,200	NA	NA	NA	84,400	NA	NA	NA	NA	P
BV-3	14.65	12/03/96	11.82	2.83	NM	<250	1,780	3,030	14,500	NA	NA	NA	66,100	NA	NA	NA	NA	P
BV-3	14.65	03/10/97	NM	NM	0.4	181	2,370	2,700	13,100	NA	NA	NA	76,000	NA	NA	NA	NA	NP
BV-3	14.65	08/18/97	12.09	2.56	0.6	275	1,730	3,270	15,100	NA	NA	NA	80,500	NA	NA	NA	NA	NP
BV-3	14.65	03/13/98	11.22	3.43	NM	211	1,660	3,380	15,000	NA	NA	NA	78,200	NA	NA	NA	4.62	NP
BV-3	14.65	09/18/98	12.58	2.07	0.8	330	2,200	3,070	15,000	NA	NA	NA	61,600	NA	NA	NA	6.49	NP
BV-3	14.65	03/02/99	10.43	4.22	0.2	247	1,450	3,630	16,600	NA	NA	NA	64,200	NA	NA	NA	3.13	NP
BV-3	14.65	09/28/99	12.65	2.00	NM	404	2,010	2,640	11,900	NA	NA	NA	54,600	NA	NA	NA	NA	NP
BV-3	14.65	03/15/00	11.50	3.15	0.36	182	926	2,920	12,700	NA	NA	NA	56,300	NA	NA	NA	NA	NP
BV-3	14.65	08/25/00	12.70	1.95	0.65	303	1,680	2,890	13,100	NA	NA	NA	77,600	NA	NA	NA	NA	NP
BV-3	14.65	03/22/01	12.17	2.48	0.52	238	1,730	3,000	12,300	<5.00	NA	NA	67,900	NA	NA	NA	NA	NP, a
BV-3	14.65	08/31/01	12.55	2.10	12.1	282	1,260	3,180	14,300	<500	NA	NA	67,300	NA	NA	NA	NA	NP
BV-3	14.65	02/27/02	11.27	3.38	1.0	128	684	2,910	13,200	<20.0	NA	NA	48,800	NA	NA	NA	NA	NP, a
BV-3	14.65	09/06/02	12.33	2.32	0.4	189	1,210	3,530	16,100	<40.0	<0.01	<20.0	50,900	NA	NA	NA	NA	NP, a
BV-3	14.65	02/14/03	11.52	3.13	0.6	98.8	487	2,730	12,200	<200	NA	NA	45,300	NA	NA	NA	NA	NP, a
BV-3	14.65	07/24/03	12.27	2.38	1.5	117	703	2,950	13,000	<20.0	NA	NA	50,600	NA	NA	NA	NA	NP, a
BV-3	14.65	03/19/04	11.62	3.03	0.6	63.6	299	2,230	9,900	<50.0	NA	NA	41,000	NA	NA	NA	NA	NP, a
BV-3	14.65	10/08/04	12.17	2.48	1.2	125	593	3,770	16,800	<100	NA	NA	47,500	NA	NA	NA	NA	NP
BV-3	14.65	03/03/05	11.30	3.35	0.8	78.0	864	3,910	17,400	<100	NA	NA	52,700	NA	NA	NA	NA	NP
BV-3	14.65	08/29/05	11.62	3.03	1.3	184	713	3,250	14,300	<40.0	NA	NA	60,000	NA	NA	NA	NA	NP
BV-3	14.65	03/12/06	11.19	3.46	NM	87.5	473	2,890	13,500	<50.0	NA	NA	53,700	NA	NA	NA	NA	NP
BV-3	14.65	03/01/07	11.37	3.28	8.03	<50.0	316	2,710	11,100	NA	NA	NA	51,500	NA	NA	NA	NA	NP
BV-3	14.65	02/18/08	11.72	2.93	2.3	<0.500	<0.500	<0.500	<3.00	NA	NA	NA	1,100	NA	NA	NA	NA	NP
BV-3	14.65	07/23/08	12.35	2.30	1.22	52.0	233	2,460	8,940	NA	NA	NA	62,100	NA	NA	NA	NA	NP
BV-3	14.65	03/05/09	11.51	3.14	1.1	53.4	157	2,480	9,700	NA	NA	NA	48,800	NA	NA	NA	NA	NP
BV-4	14.47	09/13/94	12.40	2.07	NM	180	14	420	560	NA	NA	NA	4,400	NA	NA	<2.0	NA	P
BV-4	14.47	12/09/94	11.80	2.67	NM	190	62	700	1,400	NA	NA	NA	11,000	NA	NA	<2.0	NA	P
BV-4	14.47	03/17/95	10.63	3.84	NM	26	5.7	57	48	NA	NA	NA	1,500	NA	NA	<2.0	NA	P
BV-4	14.47	06/20/95	11.86	2.61	NM	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	1,000	NA	NA	<2.0	NA	P
BV-4	14.47	09/15/95	12.30	2.17	NM	150	18	320	370	NA	NA	NA	4,800	NA	NA	<2.0	NA	P
BV-4	14.47	12/22/95	11.09	3.38	NM	210	34	630	1,100	NA	NA	NA	11,000	NA	NA	<2.0	NA	P
BV-4	14.47	03/15/96	11.03	3.44	NM	79	12	220	340	NA	NA	NA	3,500	NA	NA	<2.0	NA	P
BV-4	14.47	06/14/96	11.73	2.74	NM	31	3.12	88.2	63.2	NA	NA	NA	1,050	NA	NA	<2.0	NA	P
BV-4	14.47	09/04/96	12.22	2.25	NM	90.6	17.6	286	422	NA	NA	NA	4,020	NA	NA	NA	NA	P
BV-4	14.47	12/03/96	11.73	2.74	NM	9.1	2.71	17	42.3	NA	NA	NA	379	NA	NA	NA	NA	P
BV-4	14.47	03/10/97	10.97	3.50	0.4	28.9	7.37	108	59.2	NA	NA	NA	1,570	NA	NA	NA	NA	NP

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7200 E. MARGINAL WAY S.
SEATTLE, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (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	14.47	08/18/97	11.81	2.66	0.6	105	19.7	342	536	NA	NA	NA	5,700	NA	NA	NA	NA	NP
BV-4	14.47	03/13/98	10.92	3.55	0.3	50.4	10.8	163	200	NA	NA	NA	2,840	NA	NA	NS	NS	NP
BV-4	14.47	09/18/98	12.29	2.18	2.1	13.1	<3.0	25.3	39.2	NA	NA	NA	606	NA	NA	NA	<1.0	NP
BV-4	14.47	03/02/99	10.12	4.35	0.3	7.68	<1.00	5.58	<6.00	NA	NA	NA	426	NA	NA	NA	NA	NP, 1
BV-4	14.47	09/28/99	12.38	2.09	NM	38	11.3	64	126	NA	NA	NA	1,820	NA	NA	NA	NA	NP
BV-4	14.47	03/15/00	11.25	3.22	0.26	16.7	2.53	22.2	19.2	NA	NA	NA	622	NA	NA	NA	NA	NP
BV-4	14.47	08/25/00	12.27	2.20	0.31	57.6	10.6	176	281	NA	NA	NA	3,240	NA	NA	NA	NA	NP
BV-4	14.47	03/22/01	11.91	2.56	0.48	16.9	1.86	47.6	37.5	<5.00	NA	NA	908	NA	NA	NA	NA	NP, a
BV-4	14.47	08/31/01	12.26	2.21	12.6	58.1	8.31	233	319	<10.0	NA	NA	3,080	NA	NA	NA	NA	NP
BV-4	14.47	02/27/02	11.00	3.47	0.3	37.8	3.51	169	84.2	17.4	NA	NA	2,490	NA	NA	NA	NA	NP
BV-4	14.47	09/06/02	12.04	2.43	0.6	63.2	8.53	299	294	4.99	<0.01	<1.00	2,570	NA	NA	NA	NA	NP
BV-4	14.47	02/14/03	11.26	3.21	0.3	22.5	<2.50	119	49.5	<8.00	NA	NA	1,430	NA	NA	NA	NA	NP
BV-4	14.47	07/24/03	11.92	2.55	2.0	42	5	298	151	<20.0	NA	NA	4,770	NA	NA	NA	NA	NP, a
BV-4	14.47	03/19/04	11.27	3.20	0.3	33.4	4.68	250	177	<5.00	NA	NA	4,640	NA	NA	NA	NA	NP, a
BV-4	14.47	10/08/04	12.98	1.49	1.0	38.1	3.33	171	109	6.83	NA	NA	1,610	NA	NA	NA	NA	NP
BV-4	14.47	03/03/05	10.98	3.49	0.9	10.9	0.790	111	21.7	3.49	NA	NA	1,730	NA	NA	NA	NA	NP
BV-4	14.47	08/29/05	11.23	3.24	1.0	36.1	2.75	325	132	<20.0	NA	NA	3,570	NA	NA	NA	NA	NP
BV-4	14.47	03/12/06	10.88	3.59	1.1	4.88	<2.00	79.8	9.4	9.4	NA	NA	1,270	NA	NA	NA	NA	NP
BV-4	14.47	03/01/07	11.13	3.34	NM	17.8	1.08	226	15.3	NA	NA	NA	2,140	NA	NA	NA	NA	NP
BV-4	14.47	02/18/08	11.46	3.01	2.9	3.74	<0.500	69.0	7.94	NA	NA	NA	2,020	NA	NA	NA	NA	NP
BV-4	14.47	07/23/08	12.10	2.37	1.14	3.26	<0.500	20.8	8.37	NA	NA	NA	951	NA	NA	NA	NA	NP
BV-4	14.47	03/05/09	11.33	3.14	0.7	12.0	6.21	42.2	12.7	NA	NA	NA	1,600	NA	NA	NA	NA	NP

TABLE 1
SUMMARY OF GROUND WATER DATA
ARCO FACILITY NO. 5218
7200 E. MARGINAL WAY S.
SEATTLE, WASHINGTON

Well	TOC (feet)	Date Sampled	Depth to Water (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
MTCA Method A Cleanup Levels						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 8021B or EPA Method 8260B. Samples with MTBE detections above the laboratory method reporting limit using 821B were re-analyzed using 8260B to confirm the MTBE concentration. Analyses prior to 9/18/96 utilized EPA Method 8020A and analyses prior to 6/14/96 utilized EPS Method 8020. Analyses on 10/8/04 utilized EPA Method 8260B.

TPH-G = Gasoline-range hydrocarbons analyzed by the Northwest method NWTPH-Gx. Analyses prior to 3/22/01 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. Analyses prior to 9/18/96 utilized EPA Method 7421.

mg/L = Milligrams per liter.

ug/L = Micrograms per liter.

<1.00 = Concentrations were not detected above the laboratory reporting limit.

a = MTBE false positive detected by Method 8021B and confirmed below method detection limits by Method 8260B.

1 = Note in laboratory report regarding this sample.

NS = Not sampled.

NA = Not analyzed.

NM = Not measured.

P = Purge sampling methods were utilized.

NP = Non-purge sampling methods were used.

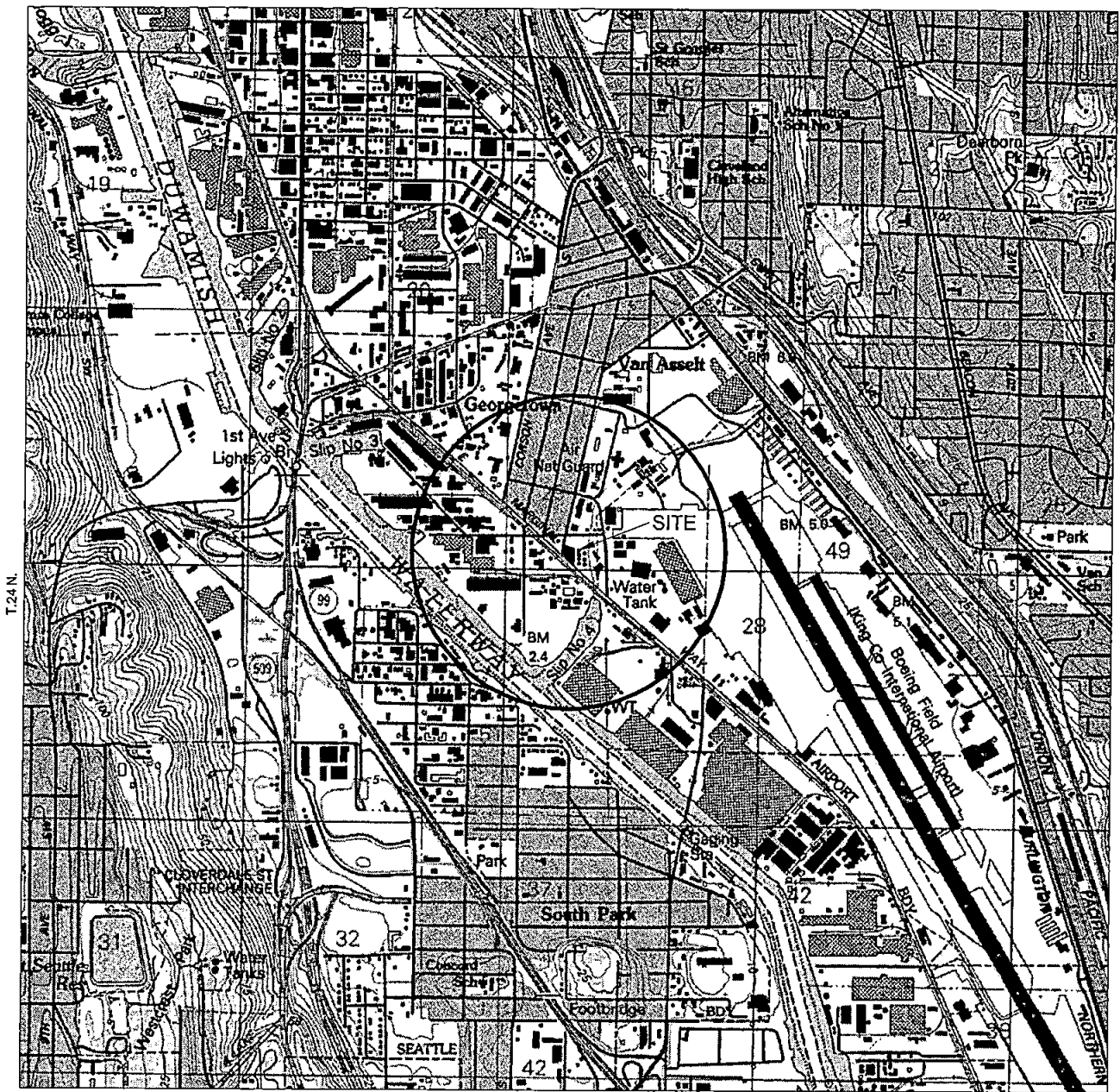
TOC = Top of Casing Elevation referenced to the National Geodetic Vertical Datum, 1929.

GW elevation = Ground water elevation as calculated by TOC elevation – depth to water.

Sampling Frequency:

1Q 2009: MW-2, BV-1, BV-2, BV-3, BV-4

3Q 2009: MW-2, BV-1, BV-2, BV-3, BV-4



R4E

GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 SEATTLE SOUTH, WA.
 7.5x15 MINUTE TOPOGRAPHIC
 DATED 1983



QUADRANGLE LOCATION

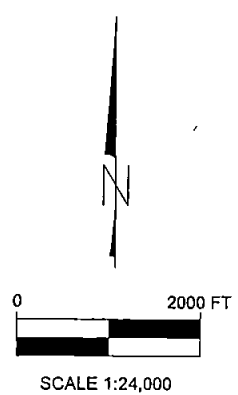


FIGURE 1
 SITE LOCATION MAP

ARCO FACILITY NO. 5218
 7200 E MARGINAL WAY S
 SEATTLE, WA.

PROJECT NO. M094-513	DRAWN BY M.L. 11/21/01
FILE NO. M094513D	PREPARED BY J.T.
REVISION NO. 1	REVIEWED BY





GENERAL NOTES:
AERIAL PHOTOGRAPH
DATED 6/13/02

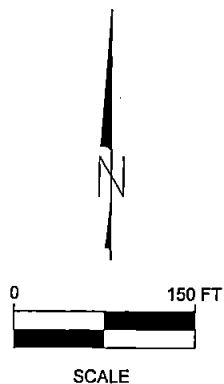


FIGURE 2
SITE AERIAL MAP

ARCO FACILITY NO. 5218
7200 E MARGINAL WAY S
SEATTLE, WA.

PROJECT NO.	DRAWN BY
FILE NO.	M.L. 4/12/05
M094513E	PREPARED BY
REVISION NO.	SBM
1	REVIEWED BY



Figure 4
BV-1- Hydrocarbon Concentrations and Water Elevations vs. Time
ARCO Facility No. 5218

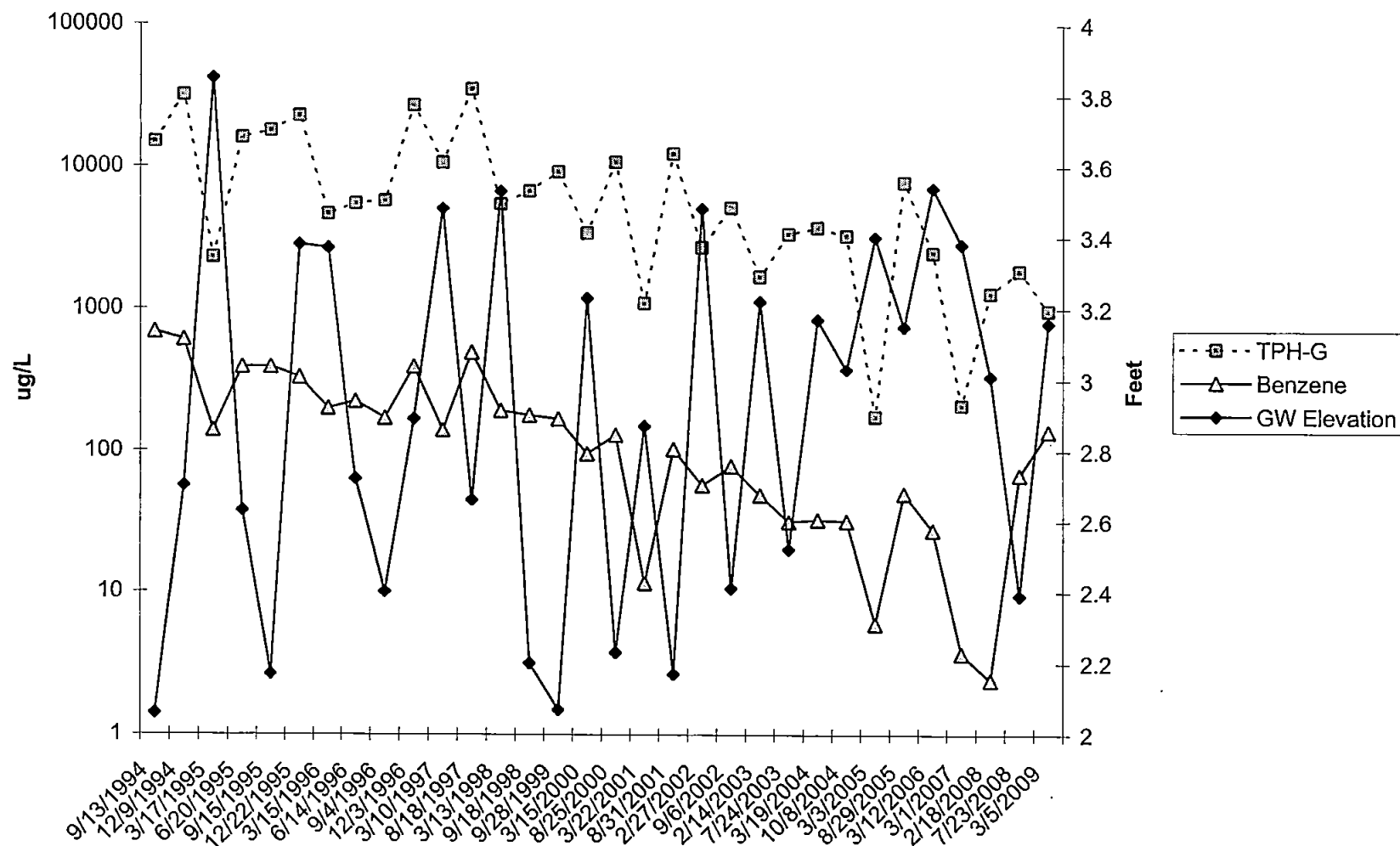
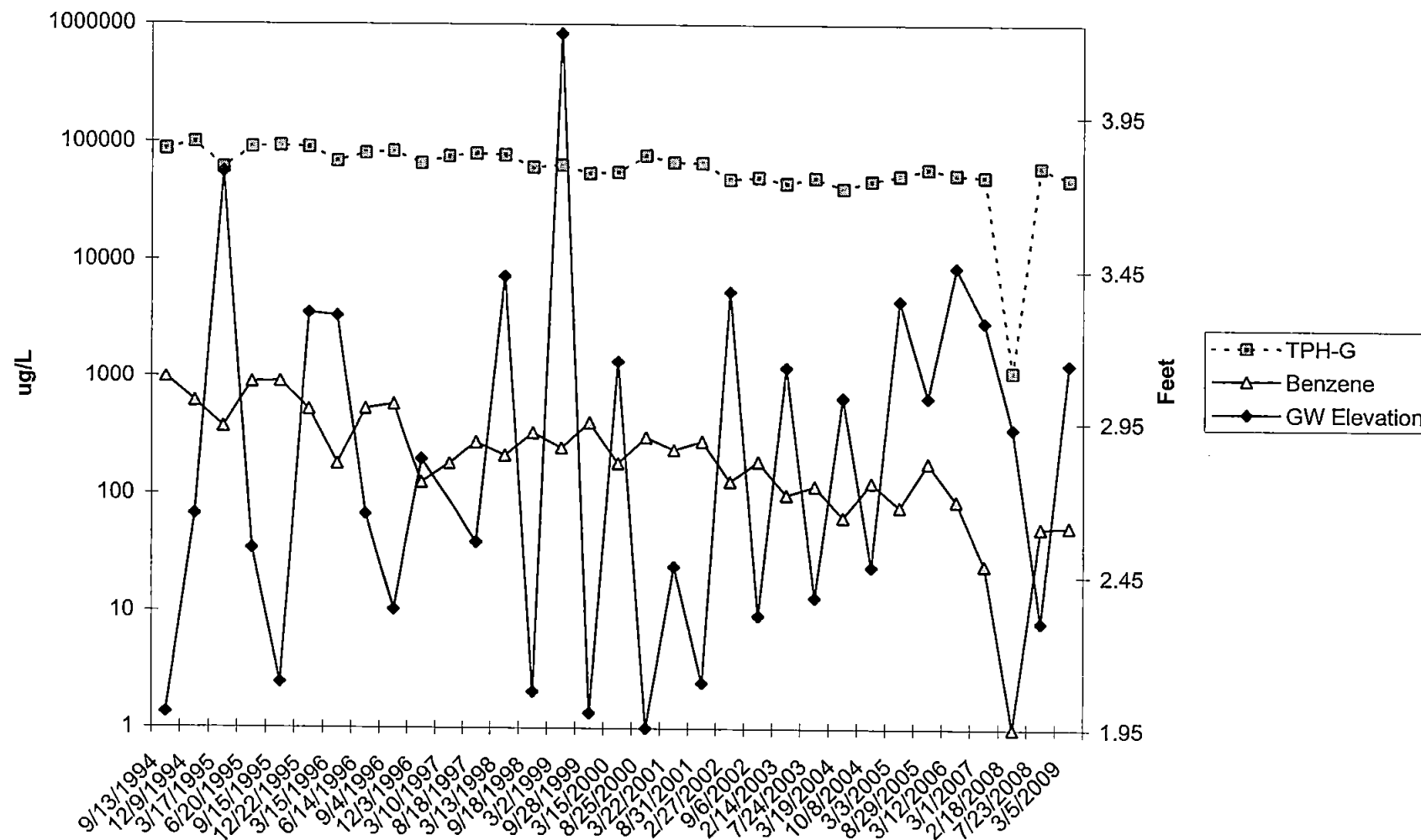


Figure 5
BV-3- Hydrocarbon Concentrations and Water Elevations vs. Time
ARCO Facility No. 5218



March 18, 2009

Markham C Hurd
Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

RE: ARCO # 5218

Enclosed are the results of analyses for samples received by the laboratory on 03/06/09 15:00.
The following list is a summary of the Work Orders contained in this report, generated on 03/18/09 12:42.

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

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BSC0081	ARCO # 5218	05218-OA09-1

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



Delta Environmental

4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: **ARCO # 5218**
Project Number: **05218-OA09-1**
Project Manager: **Markham C Hurd**

Report Created:
03/18/09 12:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2-10.75	BSC0081-01	Water	03/05/09 13:45	03/06/09 15:00
BV-1-11.07	BSC0081-02	Water	03/05/09 14:00	03/06/09 15:00
BV-2-10.76	BSC0081-03	Water	03/05/09 14:15	03/06/09 15:00
BV-3-11.51	BSC0081-04	Water	03/05/09 14:30	03/06/09 15:00
BV-4-11.33	BSC0081-05	Water	03/05/09 15:00	03/06/09 15:00
TB-1-03052009	BSC0081-06	Water	03/05/09 06:00	03/06/09 15:00

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Curtis D. Armstrong, Project Manager

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Delta Environmental	Project Name: ARCO # 5218	Report Created:
4006 148th Ave NE	Project Number: 05218-OA09-1	03/18/09 12:42
Redmond, WA/USA 98052	Project Manager: Markham C Hurd	

Volatile Petroleum Products by NWTPH-Gx

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0081-01 (MW-2-10.75)		Water						Sampled: 03/05/09 13:45		
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	9C09011	03/09/09 08:19	03/09/09 23:46	
Surrogate(s): 4-BFB (FID)		89.0%		70 - 145 %		"				"
BSC0081-02 (BV-1-11.07)		Water						Sampled: 03/05/09 14:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	978	----	50.0	ug/l	1x	9C09011	03/09/09 08:19	03/10/09 00:19	
Surrogate(s): 4-BFB (FID)		110%		70 - 145 %		"				"
BSC0081-03 (BV-2-10.76)		Water						Sampled: 03/05/09 14:15		
Gasoline Range Hydrocarbons	NWTPH-Gx	1350	----	50.0	ug/l	1x	9C09011	03/09/09 08:19	03/10/09 00:51	
Surrogate(s): 4-BFB (FID)		92.5%		70 - 145 %		"				"
BSC0081-04RE1 (BV-3-11.51)		Water						Sampled: 03/05/09 14:30		
Gasoline Range Hydrocarbons	NWTPH-Gx	48800	----	2500	ug/l	50x	9C11008	03/11/09 07:35	03/11/09 13:49	
Surrogate(s): 4-BFB (FID)		99.8%		70 - 145 %		1x				"
BSC0081-05 (BV-4-11.33)		Water						Sampled: 03/05/09 15:00		
Gasoline Range Hydrocarbons	NWTPH-Gx	1600	----	50.0	ug/l	1x	9C09011	03/09/09 08:19	03/10/09 01:23	
Surrogate(s): 4-BFB (FID)		123%		70 - 145 %		"				"

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: **ARCO # 5218**
Project Number: **05218-OA09-1**
Project Manager: **Markham C Hurd**

Report Created:
03/18/09 12:42

BTEX by EPA Method 8021B
TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0081-01 (MW-2-10.75)		Water			Sampled: 03/05/09 13:45					
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	9C09011	03/09/09 08:19	03/09/09 23:46	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		101%			80 - 130 %		"		"	
BSC0081-02 (BV-1-11.07)		Water			Sampled: 03/05/09 14:00					
Toluene	EPA 8021B	1.19	---	0.500	ug/l	1x	9C09011	03/09/09 08:19	03/10/09 00:19	
Ethylbenzene	"	34.2	---	0.500	"	"	"	"	"	
Xylenes (total)	"	26.9	---	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		113%			80 - 130 %		"		"	
BSC0081-02RE1 (BV-1-11.07)		Water			Sampled: 03/05/09 14:00					
Benzene	EPA 8021B	138	---	5.00	ug/l	10x	9C11008	03/11/09 07:35	03/11/09 12:45	
Surrogate(s): 4-BFB (PID)		101%			80 - 130 %		1x		"	
BSC0081-03 (BV-2-10.76)		Water			Sampled: 03/05/09 14:15					
Benzene	EPA 8021B	10.9	---	0.500	ug/l	1x	9C09011	03/09/09 08:19	03/10/09 00:51	
Toluene	"	ND	---	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	"	"	"	
Xylenes (total)	"	1.59	---	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		86.2%			80 - 130 %		"		"	
BSC0081-04RE1 (BV-3-11.51)		Water			Sampled: 03/05/09 14:30					
Benzene	EPA 8021B	53.4	---	25.0	ug/l	50x	9C11008	03/11/09 07:35	03/11/09 13:49	
Toluene	"	157	---	25.0	"	"	"	"	"	
Ethylbenzene	"	2480	---	25.0	"	"	"	"	"	
Xylenes (total)	"	9700	---	50.0	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		107%			80 - 130 %		1x		"	

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Delta Environmental

4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: **ARCO # 5218**
Project Number: 05218-OA09-1
Project Manager: Markham C Hurd

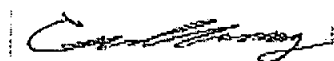
Report Created:
03/18/09 12:42

BTEX by EPA Method 8021B

TestAmerica Seattle

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BSC0081-05 (BV-4-11.33)		Water			Sampled: 03/05/09 15:00					
Benzene	EPA 8021B	12.0	—	0.500	ug/l	1x	9C09011	03/09/09 08:19	03/10/09 01:23	
Toluene	"	6.21	—	0.500	"	"	"	"	"	
Ethylbenzene	"	42.2	—	0.500	"	"	"	"	"	
Xylenes (total)	"	12.7	—	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)			125%	80 - 130 %		"	"			
BSC0081-06 (TB-1-03052009)		Water			Sampled: 03/05/09 06:00					
Benzene	EPA 8021B	ND	—	0.500	ug/l	1x	9C09011	03/09/09 08:19	03/09/09 23:14	
Toluene	"	ND	—	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	—	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	—	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)			101%	80 - 130 %		"	"			

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Delta Environmental	Project Name: ARCO # 5218	Report Created:
4006 148th Ave NE	Project Number: 05218-OA09-1	03/18/09 12:42
Redmond, WA/USA 98052	Project Manager: Markham C Hurd	

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9C09011 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C09011-BLK1)							Extracted: 03/09/09 08:19							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	03/09/09 10:14	
Surrogate(s): 4-BFB (FID)		Recovery:	87.3%	Limits: 70-145%		"		03/09/09 10:14						
LCS (9C09011-BS1)							Extracted: 03/09/09 08:19							
Gasoline Range Hydrocarbons	NWTPH-Gx	1030	---	50.0	ug/l	1x	--	1000	103%	(80-120)	--	--	03/09/09 10:46	
Surrogate(s): 4-BFB (FID)		Recovery:	99.6%	Limits: 70-145%		"		03/09/09 10:46						
Duplicate (9C09011-DUP1)				QC Source: BSC0047-01				Extracted: 03/09/09 08:19						
Gasoline Range Hydrocarbons	NWTPH-Gx	55.4	---	50.0	ug/l	1x	60.1	--	--	--	8.19%	(25)	03/09/09 12:24	
Surrogate(s): 4-BFB (FID)		Recovery:	91.4%	Limits: 70-145%		"		03/09/09 12:24						
Duplicate (9C09011-DUP2)				QC Source: BSC0057-01RE1				Extracted: 03/09/09 08:19						
Gasoline Range Hydrocarbons	NWTPH-Gx	440	---	50.0	ug/l	1x	519	--	--	--	16.6%	(25)	03/09/09 13:28	
Surrogate(s): 4-BFB (FID)		Recovery:	98.3%	Limits: 70-145%		"		03/09/09 13:28						
Matrix Spike (9C09011-MS1)				QC Source: BSC0047-01				Extracted: 03/09/09 08:19						
Gasoline Range Hydrocarbons	NWTPH-Gx	1160	---	50.0	ug/l	1x	60.1	1000	110%	(70-135)	--	--	03/09/09 14:33	
Surrogate(s): 4-BFB (FID)		Recovery:	101%	Limits: 70-145%		"		03/09/09 14:33						
Matrix Spike Dup (9C09011-MSD1)				QC Source: BSC0047-01				Extracted: 03/09/09 08:19						
Gasoline Range Hydrocarbons	NWTPH-Gx	1110	---	50.0	ug/l	1x	60.1	1000	105%	(70-135)	4.16%	(25)	03/09/09 15:05	
Surrogate(s): 4-BFB (FID)		Recovery:	97.3%	Limits: 70-145%		"		03/09/09 15:05						

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Delta Environmental	Project Name: ARCO # 5218	Report Created:
4006 148th Ave NE	Project Number: 05218-OA09-1	03/18/09 12:42
Redmond, WA/USA 98052	Project Manager: Markham C Hurd	

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9C11008 Water Preparation Method: EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C11008-BLK1)							Extracted: 03/11/09 07:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	03/11/09 09:45	
Surrogate(s): 4-BFB (FID)		Recovery: 86.9%	Limits: 70-145%		"		03/11/09 09:45							
LCS (9C11008-BS1)							Extracted: 03/11/09 07:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	1000	---	50.0	ug/l	1x	--	1000	100%	(80-120)	--	--	03/11/09 10:17	
Surrogate(s): 4-BFB (FID)		Recovery: 98.5%	Limits: 70-145%		"		03/11/09 10:17							
Duplicate (9C11008-DUP1)				QC Source: BSC0091-01			Extracted: 03/11/09 07:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR (25)		03/11/09 12:12	
Surrogate(s): 4-BFB (FID)		Recovery: 89.7%	Limits: 70-145%		"		03/11/09 12:12							
Duplicate (9C11008-DUP2)				QC Source: BSC0091-02			Extracted: 03/11/09 07:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR (25)		03/11/09 17:35	
Surrogate(s): 4-BFB (FID)		Recovery: 89.0%	Limits: 70-145%		"		03/11/09 17:35							
Matrix Spike (9C11008-MS1)				QC Source: BSC0091-01			Extracted: 03/11/09 07:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	1150	---	50.0	ug/l	1x	ND	1000	115%	(70-135)	--	--	03/11/09 14:22	
Surrogate(s): 4-BFB (FID)		Recovery: 99.9%	Limits: 70-145%		"		03/11/09 14:22							
Matrix Spike Dup (9C11008-MSD1)				QC Source: BSC0091-01			Extracted: 03/11/09 07:35							
Gasoline Range Hydrocarbons	NWTPH-Gx	1030	---	50.0	ug/l	1x	ND	1000	103%	(70-135)	11.4% (25)		03/11/09 14:54	
Surrogate(s): 4-BFB (FID)		Recovery: 94.5%	Limits: 70-145%		"		03/11/09 14:54							

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager



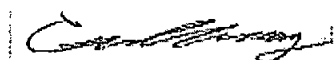
Delta Environmental	Project Name: ARCO # 5218	Report Created:
4006 148th Ave NE	Project Number: 05218-OA09-1	03/18/09 12:42
Redmond, WA/USA 98052	Project Manager: Markham C Hurd	

BTEX by EPA Method 8021B - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: 9C09011 **Water Preparation Method:** EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C09011-BLK1)							Extracted: 03/09/09 08:19							
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	03/09/09 10:14	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 95.9%		Limits: 80-130%		"		03/09/09 10:14						
LCS (9C09011-BS2)							Extracted: 03/09/09 08:19							
Benzene	EPA 8021B	29.1	---	0.500	ug/l	1x	--	30.0	97.0%	(80-125)	--	--	03/09/09 11:19	
Toluene	"	28.8	---	0.500	"	"	--	"	96.0%	(80-120)	--	--	"	
Ethylbenzene	"	29.0	---	0.500	"	"	--	"	96.6%	(80-125)	--	--	"	
Xylenes (total)	"	85.7	---	1.00	"	"	--	90.0	95.2%	(75-120)	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 98.1%		Limits: 80-130%		"		03/09/09 11:19						
Duplicate (9C09011-DUP1)							QC Source: BSC0047-01		Extracted: 03/09/09 08:19					
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	46.0%	(25)	03/09/09 12:24	R4
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	24.4%	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	32.8%	"	"	R4
Surrogate(s): 4-BFB (PID)		Recovery: 97.3%		Limits: 80-130%		"		03/09/09 12:24						
Duplicate (9C09011-DUP2)							QC Source: BSC0057-01RE1		Extracted: 03/09/09 08:19					
Benzene	EPA 8021B	2.47	---	0.500	ug/l	1x	2.99	--	--	--	19.2%	(25)	03/09/09 13:28	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	23.8%	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	"	"	"	
Xylenes (total)	"	3.15	---	1.00	"	"	3.92	--	--	--	22.0%	"	"	
Surrogate(s): 4-BFB (PID)		Recovery: 96.6%		Limits: 80-130%		"		03/09/09 13:28						
Matrix Spike (9C09011-MS2)							QC Source: BSC0057-01RE1		Extracted: 03/09/09 08:19					
Benzene	EPA 8021B	37.0	---	0.500	ug/l	1x	2.99	30.0	113%	(60-135)	--	--	03/09/09 20:00	
Toluene	"	34.1	---	0.500	"	"	0.320	"	112%	(65-135)	--	--	"	
Ethylbenzene	"	34.7	---	0.500	"	"	ND	"	116%	"	--	--	"	
Xylenes (total)	"	101	---	1.00	"	"	3.92	90.0	108%	(65-130)	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 104%		Limits: 80-130%		"		03/09/09 20:00						

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.



Delta Environmental	Project Name: ARCO # 5218	Report Created:
4006 148th Ave NE	Project Number: 05218-OA09-1	03/18/09 12:42
Redmond, WA/USA 98052	Project Manager: Markham C Hurd	

BTEX by EPA Method 8021B - Laboratory Quality Control Results

TestAmerica Seattle

QC Batch: 9C09011	Water Preparation Method: EPA 5030B (P/T)
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Matrix Spike Dup (9C09011-MSD2)			QC Source: BSC0057-01RE1			Extracted: 03/09/09 08:19								
Benzene	EPA 8021B	34.1	---	0.500	ug/l	1x	2.99	30.0	104%	(60-135)	8.22%	(25)	03/09/09 20:32	
Toluene	"	31.4	---	0.500	"	"	0.320	"	104%	(65-135)	8.24%	"	"	
Ethylbenzene	"	31.5	---	0.500	"	"	ND	"	105%	"	9.67%	"	"	
Xylenes (total)	"	94.4	---	1.00	"	"	3.92	90.0	101%	(65-130)	7.21%	"	"	
Surrogate(s): 4-BFB (PID)		Recovery: 101%		Limits: 80-130%		"		03/09/09 20:32						

QC Batch: 9C11008	Water Preparation Method: EPA 5030B (P/T)
-------------------	---

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (9C11008-BLK1)			QC Source: BSC0091-01			Extracted: 03/11/09 07:35								
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	03/11/09 09:45	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 101%		Limits: 80-130%		"		03/11/09 09:45						

LCS (9C11008-BS2)	QC Source: BSC0091-01	Extracted: 03/11/09 07:35
--------------------------	-----------------------	---------------------------

Benzene	EPA 8021B	30.7	---	0.500	ug/l	1x	--	30.0	102%	(80-125)	--	--	03/11/09 10:50	
Toluene	"	30.1	---	0.500	"	"	--	"	100%	(80-120)	--	--	"	
Ethylbenzene	"	30.2	---	0.500	"	"	--	"	101%	(80-125)	--	--	"	
Xylenes (total)	"	89.4	---	1.00	"	"	--	90.0	99.3%	(75-120)	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 101%		Limits: 80-130%		"		03/11/09 10:50						

Duplicate (9C11008-DUP1)	QC Source: BSC0091-01	Extracted: 03/11/09 07:35
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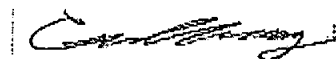
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR	(25)	03/11/09 12:12	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	69.4%	"	"	R4
Surrogate(s): 4-BFB (PID)		Recovery: 102%		Limits: 80-130%		"		03/11/09 12:12						

Duplicate (9C11008-DUP2)	QC Source: BSC0091-02	Extracted: 03/11/09 07:35
---------------------------------	-----------------------	---------------------------

Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR	(25)	03/11/09 17:35	
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	"	"	
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	17.6%	"	"	
Surrogate(s): 4-BFB (PID)		Recovery: 103%		Limits: 80-130%		"		03/11/09 17:35						

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager



Delta Environmental
4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: **ARCO # 5218**
Project Number: **05218-OA09-1**
Project Manager: **Markham C Hurd**

Report Created:
03/18/09 12:42

BTEX by EPA Method 8021B - Laboratory Quality Control Results
TestAmerica Seattle

QC Batch: **9C11008** Water Preparation Method: **EPA 5030B (P/T)**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Matrix Spike (9C11008-MS2)

QC Source: **BSC0091-02**

Extracted: **03/11/09 07:35**

Benzene	EPA 8021B	33.6	---	0.500	ug/l	1x	ND	30.0	112%	(60-135)	--	--	03/11/09 21:22	
Toluene	"	33.0	---	0.500	"	"	ND	"	110%	(65-135)	--	--	"	
Ethylbenzene	"	33.6	---	0.500	"	"	ND	"	112%	"	--	--	"	
Xylenes (total)	"	98.5	---	1.00	"	"	0.254	90.0	109%	(65-130)	--	--	"	
Surrogate(s): 4-BFB (PID)		Recovery: 102%		Limits: 80-130%		"		03/11/09 21:22						

Matrix Spike Dup (9C11008-MSD2)

QC Source: **BSC0091-02**

Extracted: **03/11/09 07:35**

Benzene	EPA 8021B	33.5	---	0.500	ug/l	1x	ND	30.0	112%	(60-135)	0.304% (25)	03/11/09 21:54		
Toluene	"	32.8	---	0.500	"	"	ND	"	109%	(65-135)	0.745%	"		
Ethylbenzene	"	33.2	---	0.500	"	"	ND	"	111%	"	1.05%	"		
Xylenes (total)	"	97.6	---	1.00	"	"	0.254	90.0	108%	(65-130)	0.961%	"		
Surrogate(s): 4-BFB (PID)		Recovery: 102%		Limits: 80-130%		"		03/11/09 21:54						

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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Delta Environmental

4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: **ARCO # 5218**

Project Number: 05218-OA09-1

Project Manager: Markham C Hurd

Report Created:

03/18/09 12:42

CERTIFICATION SUMMARY

TestAmerica Seattle

Method	Matrix	Nelac	Washington
EPA 8021B	Water	X	X
NWTPH-Gx	Water		X

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

TestAmerica Seattle

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Curtis D. Armstrong, Project Manager



Delta Environmental

4006 148th Ave NE
Redmond, WA/USA 98052

Project Name: ARCO # 5218
Project Number: 05218-OA09-1
Project Manager: Markham C Hurd

Report Created:
03/18/09 12:42

Notes and Definitions

Report Specific Notes:

- R4 - Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Seattle



Curtis D. Armstrong, Project Manager

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TAT: _____ Paperwork to PM – Date: _____ Time: _____ Non-Conformances? _____
Page Time & Initials: _____ Circle Y or N
(If Y, see other side)

TEST AMERICA SAMPLE RECEIPT CHECKLIST

Received By: _____
(applies to temp at receipt)

Logged-in By: _____

Unpacked/Labeled By: _____

Cooler ID: 314

Date: 3/6/09

Date: 3/9/09

Date: 3/9/09

Work Order No. BSC0081

Time: 1500

Time: 1142

Time: 1124

Client: _____

Initials: FL

Initials: DS

Initials: MMT

Project: _____

Container Type:

COC Seals:

Packing Material:

☒ Cooler
☐ Box
☐ None/Other _____

☐ Ship Container ☐ Sign By
☐ On Bottles ☐ Date
☒ None

☒ Bubble Bags ☐ Styrofoam
☐ Foam Packs
☐ None/Other _____

Refrigerant:

☒ Gel Ice Pack _____
☐ Loose Ice _____
☐ None/Other _____

Soil Stir Bars/Encores:

Placed in freezer #46:
Y or N or NA
Initial/date/time _____

Received Via: Bill#:

☐ Fed Ex ☐ Client
☐ UPS ☒ TA Courier
☐ DHL ☐ Mid Valley
☐ Senvoy ☐ TDP
☐ GS ☐ Other _____

Cooler Temperature (IR): _____ °C Plastic Glass (Frozen filters, Tedlars and aqueous Metals exempt)
(circle one)

Temperature Blank? 4.7 or NA comments _____

Trip Blank? Y or N or NA

BP, OPLC, ARCO-Temperature monitoring every 15 minutes:

(initial/date/time): _____

Comments: _____

Sample Containers:

ID

ID

Intact? ☒ or N _____

Metals Preserved? Y or N or NA _____

Provided by TA? ☒ or N _____

Client QAPP Preserved? Y or N or NA _____

Correct Type? ☒ or N _____

Adequate Volume? ☒ or N _____

#Containers match COC? ☒ or N _____

(for tests requested)
Water VOAs: Headspace? Y or ☒ or NA _____

IDs/time/date match COC? ☒ or N _____

Comments: _____

Hold Times in hold? ☒ or N _____

PROJECT MANAGEMENT

Is the Chain of Custody complete?

Y or N If N, circle the items that were incomplete

Comments, Problems _____

Total access set up?

Has client been contacted regarding non-conformances?

Y or N

Y or N

If Y, _____
Date Time

PM Initials: AM

Date: 3/9/09

Time: 11:38



A member of:



WELL MONITORING &

SAMPLING FIELD FORM

Project Name: ARCO 5218

Project #: 05218-0A09-1

GWS

Date:

03/05/2009

Monitoring Well ID: MW-2

Field Personnel: Brandon Bickler

Mackie Navarone

Start Time: 1315

Weather Conditions: Rain

Approx-Air Temp (F): 40

INITIAL WELL DATA & WELL PURGING INFORMATION

Depth to Water (ft): 10.45				Depth to Water Measuring Technique: WLI				
Total Well Depth (ft):				Detection Method of Free Product:				
Depth to Free Product:				Conversion Factors (casing dia. = gallons/linear ft.) Circle One				
Depth to Water (ft) after ELR:				0.75"=0.02 1"=0.04 2"=0.17 3"=0.37				
Depth to Free Product after ELR:				4"=0.66 6"=1.47 8"=2.61 12"=5.88				
Casing Diameter (in.): 2				Three Well Purge Volumes (gallons) = 3 X =				
Quantity of Free Product Removed:				Method of Collecting Free Product:				
Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (degree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						0.8		
Total Purged =				Purge Pumping Rate (approx. gpm or ml/min):		Well Yield: High / Moderate / Low		
Purge Method (circle one):				PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other				
Water Level After Purging (TOC - ft.):				Decontamination Methods:				
Instrument Type & Number:				Instrument Notes:				
Instrument Calibration Date & Time:								

WELL CONDITION

Casing (circle one):	Stainless Steel (SS)	Carbon Steel	PVC	Other:
Casing Condition:	OK / NA / Needs Repairs / Repaired	Lock Condition:	OK / NA / Needs Repairs / Repaired	
Cap Condition:	OK / NA / Needs Repairs / Repaired	Inner Casing Condition:	OK / NA / Needs Repairs / Repaired	
Paint Condition:	OK / NA / Needs Repairs / Repaired	Monument Condition:	OK / NA / Needs Repairs / Repaired	
Recommended Well Repairs: Handle w/ E-cap, H ₂ O in well box				

SAMPLING INFORMATION / DATA

Date Sampled: 03/05/2009	QA/QC Sample (circle one): YES / NO	Water Chemistry Sample: YES / NO			
Time Sampled: 1315	Sampling Method (circle one): SS Bailer	Poly Bailer			
Chain-of-Custody #:	Teflon Bailer	Peristaltic Pump			
Sample ID	Bottles (total) (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
MW-2-10.45	3 400ml	HCl	TA	TA	BTEX

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: (YES) NO

Field Observation / Notes of Sampling Event:

TOC - Top of Casing

Sampler (Print): Brandon Bickler

Sampler Signature:

Date Signed:

Mackie Navarone Brandon Bickler

03/05/2009



A member of:



WELL MONITORING &

SAMPLING FIELD FORM

Project Name: ARCO 5218

Project #: 05218-0A09-1

GWS

Date:

03/05/2009

Monitoring Well ID: BV-2

Field Personnel: Brandon Bickler

Markie Minivan

Start Time: 1300

Weather Conditions: Rain

Approx Air Temp (F): 40

INITIAL WELL DATA & WELL PURGING INFORMATION

Depth to Water (ft): 11.08

Depth to Water Measuring Technique: WLI

Total Well Depth (ft):

Detection Method of Free Product:

Depth to Free Product:

Conversion Factors (casing dia. = gallons/linear ft.) Circle One

Depth to Water (ft) after ELR:

0.75" = 0.02 1" = 0.04 2" = 0.17 3" = 0.37

Depth to Free Product after ELR:

4" = 0.66 6" = 1.47 8" = 2.61 12" = 5.88

Casing Diameter (in.): 4

Three Well Purge Volumes (gallons) = 3 X

Quantity of Free Product Removed:

Method of Collecting Free Product:

Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (degree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						0.5		

Total Purged =

Purge Pumping Rate (approx. gpm or ml/min):

Well Yield: High / Moderate / Low

Purge Method (circle one):

PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other

Water Level After Purging (TOC - ft.):

Decontamination Methods:

Instrument Type & Number:

Instrument Notes:

Instrument Calibration Date & Time:

WELL CONDITION

Casing (circle one): Stainless Steel (SS) Carbon Steel PVC Other:

Casing Condition: OK NA / Needs Repairs / Repaired

Lock Condition: OK NA / Needs Repairs / Repaired

Cap Condition: OK NA / Needs Repairs / Repaired

Inner Casing Condition: OK NA / Needs Repairs / Repaired

Paint Condition: OK NA / Needs Repairs / Repaired

Monument Condition: OK NA / Needs Repairs / Repaired

Recommended Well Repairs: Monitor, N/E-cap

SAMPLING INFORMATION / DATA

Date Sampled: 03/05/2009

QA/QC Sample (circle one): YES / NO

Water Chemistry Sample: YES / NO

Time Sampled: 1400

Sampling Method (circle one): SS Bailer

Poly Bailer

Grunfos Pump

Chain-of-Custody #:

Teflon Bailer

Peristaltic Pump

Other:

Sample ID	Bottles (total)	Bottles (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
BV-2-1109	3	100ml	HCl	TA	TA	BTEX13

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: YES/NO

Field Observation / Notes of Sampling Event:

TOC - Top of Casing

Sampler (Print): Brandon Bickler

Sampler Signature:

Date Signed:

Markie Minivan Brandon Bickler 03/05/09



A member of:



WELL MONITORING &

Project Name: ARCO 5218

Project #: 05218-0A09-1

SAMPLING FIELD FORM

GWS

Date: 03/05/2009

Monitoring Well ID: BV-2

Field Personnel: Brandon Bickler / Mackie Manion

Start Time: 1305

Weather Conditions: Rain

Approx Air Temp (F): 40

INITIAL WELL DATA & WELL PURGING INFORMATION

Depth to Water (ft): 10.96				Depth to Water Measuring Technique: WLI				
Total Well Depth (ft):				Detection Method of Free Product:				
Depth to Free Product:				Conversion Factors (casing dia. = gallons/linear ft.) Circle One				
Depth to Water (ft) after ELR:				0.75"=0.02 1"=0.04 2"=0.17 3"=0.37				
Depth to Free Product after ELR:				4"=0.66 6"=1.47 8"=2.61 12"=5.88				
Casing Diameter (in.): 4				Three Well Purge Volumes (gallons) = 3 X =				
Quantity of Free Product Removed:				Method of Collecting Free Product:				
Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (degree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						0.6		
Total Purged =				Purge Pumping Rate (approx. gpm or ml/min):		Well Yield: High / Moderate / Low		
Purge Method (circle one):				PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other				
Water Level After Purging (TOC - ft.):				Decontamination Methods:				
Instrument Type & Number:				Instrument Notes:				
Instrument Calibration Date & Time:								

WELL CONDITION

Casing (circle one):	Stainless Steel (SS)	Carbon Steel	PVC	Other:
Casing Condition:	OK / NA / Needs Repairs / Repaired	Lock Condition:	OK / NA / Needs Repairs / Repaired	
Cap Condition:	OK / NA / Needs Repairs / Repaired	Inner Casing Condition:	OK / NA / Needs Repairs / Repaired	
Paint Condition:	OK / NA / Needs Repairs / Repaired	Monument Condition:	OK / NA / Needs Repairs / Repaired	
Recommended Well Repairs: Mantle w/ E-cap				

SAMPLING INFORMATION / DATA

Date Sampled: 03/05/2009	QA/QC Sample (circle one): YES / NO	Water Chemistry Sample: YES / NO			
Time Sampled: 1415	Sampling Method (circle one): SS Bailer	Poly Bailer			
Chain-of-Custody #:	Teflon Bailer	Peristaltic Pump			
Sample ID	Bottles (total) (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
BV-2-10.96	3 40ml	HCl	TA	TA	BTEX

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: YES NO

Field Observation / Notes of Sampling Event:

TOC - Top of Casing

Sampler (Print): Brandon Bickler

Sampler Signature:

Date Signed:

Mackie Manion Brandon Bickler 03/05/2009



A member of:



WELL MONITORING &

SAMPLING FIELD FORM

Project Name: ARCO 5218

Project #: 05218-0A09-1

GWS

Date:

03/05/2009

Monitoring Well ID: BV-3

Field Personnel: Brandon Bickler / Mackie Hanivong

Start Time: 1310

Weather Conditions: Rain

Approx Air Temp (F): 40

INITIAL WELL DATA & WELL PURGING INFORMATION

Depth to Water (ft): 11.51

Depth to Water Measuring Technique: WLI

Total Well Depth (ft): —

Detection Method of Free Product:

Depth to Free Product: —

Conversion Factors (casing dia. = gallons/linear ft.) Circle One

Depth to Water (ft) after ELR: —

0.75"=0.02 1"=0.04 2"=0.17 3"=0.37

Depth to Free Product after ELR: —

4"=0.66 6"=1.47 8"=2.61 12"=5.88

Casing Diameter (in.): 4

Three Well Purge Volumes (gallons) = 3 X

Quantity of Free Product Removed: —

Method of Collecting Free Product:

Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (degree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						1.1		

Total Purged =

Purge Pumping Rate (approx. gpm or ml/min):

Well Yield: High / Moderate / Low

Purge Method (circle one):

PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other

Water Level After Purging (TOC - ft.):

Decontamination Methods:

Instrument Type & Number:

Instrument Notes:

Instrument Calibration Date & Time:

WELL CONDITION

Casing (circle one): Stainless Steel (SS) Carbon Steel (PVC) Other:

Casing Condition: OK / NA / Needs Repairs / Repaired

Lock Condition: OK / NA / Needs Repairs / Repaired

Cap Condition: OK / NA / Needs Repairs / Repaired

Inner Casing Condition: OK / NA / Needs Repairs / Repaired

Paint Condition: OK / NA / Needs Repairs / Repaired

Monument Condition: OK / NA / Needs Repairs / Repaired

Recommended Well Repairs: Throttle w/ E-cap

SAMPLING INFORMATION / DATA

Date Sampled: 03/05/2009

QA/QC Sample (circle one): YES / NO

Water Chemistry Sample: YES / NO

Time Sampled: 1430

Sampling Method (circle One): SS Bailer

(Poly Bailer)

Grunfos Pump

Chain-of-Custody #:

Teflon Bailer

Peristaltic Pump

Other:

Sample ID	Bottles (total)	Bottles (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
BV-3-11.51	3	40ml	AC1	TA	TA	BTEX/g

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: YES / NO

Field Observation / Notes of Sampling Event:

TOC - Top of Casing

Sampler (Print): Brandon Bickler

Sampler Signature:

Date Signed:

Mackie Hanivong

Brandon Bickler

03/05/2009



A member of:



WELL MONITORING &

SAMPLING FIELD FORM

Project Name: ARCO 5218

Project #: 05218-0A09-1

GWS

Date: 03/05/2009

Monitoring Well ID: BV-4

Field Personnel: Brandon Bickler / Mackie Hanvong

Start Time: 1445

Weather Conditions: Rain

Approx Air Temp (F): 40

INITIAL WELL DATA & WELL PURGING INFORMATION

Depth to Water (ft): 11.33				Depth to Water Measuring Technique: WLI				
Total Well Depth (ft):				Detection Method of Free Product:				
Depth to Free Product:				Conversion Factors (casing dia. = gallons/linear ft.) Circle One				
Depth to Water (ft) after ELR:				0.75"=0.02 1"=0.04 2" = 0.17 3" = 0.37				
Depth to Free Product after ELR:				4" = 0.66 6" = 1.47 8" = 2.61 12" = 5.88				
Casing Diameter (in.): 4				Three Well Purge Volumes (gallons) = 3 X =				
Quantity of Free Product Removed:				Method of Collecting Free Product:				
Casing Volumes (#)	Gallons Purged (gallons)	Water Temperature (degree C)	Water pH (S.U.)	Specific Conductivity (µS)	Turbidity (NTUs)	Dissolved Oxygen (mg/L)	ORP (mV)	Time (0:00 - 23:59)
						0.5		
Total Purged =				Purge Pumping Rate (approx. gpm or ml/min):		Well Yield: High / Moderate / Low		
Purge Method (circle one):				PVC Bailer / Poly Bailer / SS Bailer / Peristaltic Pump / Grunfos Pump / Other				
Water Level After Purging (TOC - ft.):				Decontamination Methods:				
Instrument Type & Number:				Instrument Notes:				
Instrument Calibration Date & Time:								

WELL CONDITION

Casing (circle one):	Stainless Steel (SS)	Carbon Steel	PVC	Other:
Casing Condition:	OK / NA / Needs Repairs / Repaired	Lock Condition:	OK / NA / Needs Repairs / Repaired	
Cap Condition:	OK / NA / Needs Repairs / Repaired	Inner Casing Condition:	OK / NA / Needs Repairs / Repaired	
Paint Condition:	OK / NA / Needs Repairs / Repaired	Monument Condition:	OK / NA / Needs Repairs / Repaired	
Recommended Well Repairs: Monitor WLE-CAP				

SAMPLING INFORMATION / DATA

Date Sampled: 03/04/2009	QA/QC Sample (circle one): YES / NO	Water Chemistry Sample: YES / NO			
Time Sampled: 1500	Sampling Method (circle one): SS Bailer	Poly Bailer			
Chain-of-Custody #:	Teflon Bailer	Peristaltic Pump			
Other:					
Sample ID	Bottles (total) (size)	Preservative	Destination Laboratory	Sample Transporter	Analytical Parameters
BV-4-11.33	3 40 ml	HCl	TA	TA	BTLEB

All samples were immediately placed into a cooler and packed with ice or "Blue Ice", unless otherwise noted: YES / NO

Field Observation / Notes of Sampling Event:

TOC - Top of Casing

Sampler (Print): Brandon Bickler

Sampler Signature:

Date Signed:

Mackie Hanvong Brandon Bickler 03/05/2009