

January 9, 2006

Mr. Don Hwang
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
Environmental Health
JAN 11 2006

**Re: Fourth Quarter 2005 Groundwater Monitoring Report
Former ARCO Service Station #6002
6235 Seminary Avenue
Oakland, California
ACEH Case #3942**

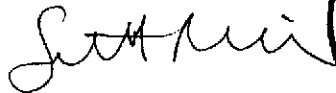
Dear Mr. Hwang:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2005 Groundwater Monitoring Report* for the Former ARCO Service Station #6002, located at 6235 Seminary Avenue, Oakland, California.

If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION



Scott Robinson, P.G.
Project Manager



Enclosure: Fourth Quarter 2005 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 6549
Moraga, California 94570
Phone: (925) 299-8891
Fax: (925) 299-8872

January 9, 2006

Re: Fourth Quarter 2005 Groundwater Monitoring Report
Former ARCO Service Station #6002
6235 Seminary Avenue
Oakland, California
ACEH Case #3942

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple
Environmental Business Manager

Alameda County
JAN 11 2006
Environmental Health

R E P O R T

**FOURTH QUARTER 2005
GROUNDWATER MONITORING
REPORT**

FORMER ARCO SERVICE STATION #6002
6235 SEMINARY AVENUE
OAKLAND, CALIFORNIA

Prepared for
RM

January 9, 2006

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: January 9, 2006
Quarter: 4Q 05

FOURTH QUARTER 2005 GROUNDWATER MONITORING REPORT

Former Facility No.: 6002 Address: 6235 Seminary Avenue, Oakland, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Primary Agency: Alameda County Environmental Health (ACEH)
ACEH Case #: 3942

WORK PERFORMED THIS QUARTER (Fourth – 2005):

1. Prepared and submitted the Third Quarter 2005 Groundwater Monitoring Report.
2. Performed the fourth quarter 2005 groundwater monitoring event on December 2, 2005.

WORK PROPOSED FOR NEXT QUARTER (First – 2006):

1. Prepare and submit this Fourth Quarter 2005 Groundwater Monitoring Report.
2. Perform the first quarter 2006 groundwater monitoring event.

SITE SUMMARY:

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Quarterly: MW-5, VW-1 and VW-4</u> <u>Annually (3rd quarter): MW-3, MW-4, MW-6, MW-7 and MW-8</u>
Frequency of Groundwater Monitoring:	<u>Quarterly</u>
Is Free Product (FP) Present On-Site:	<u>None</u>
Bulk Soil Removed to Date:	<u>Approximately 370 cubic yards of TPH impacted soil</u>
Current Remediation Techniques:	<u>None</u>
Approximate Depth to Groundwater:	<u>7.32 (VW-1) to 14.55 (MW-6) feet</u>
Groundwater Gradient (direction):	<u>Southwest</u>
Groundwater Gradient (magnitude):	<u>0.10 feet per foot</u>

DISCUSSION:

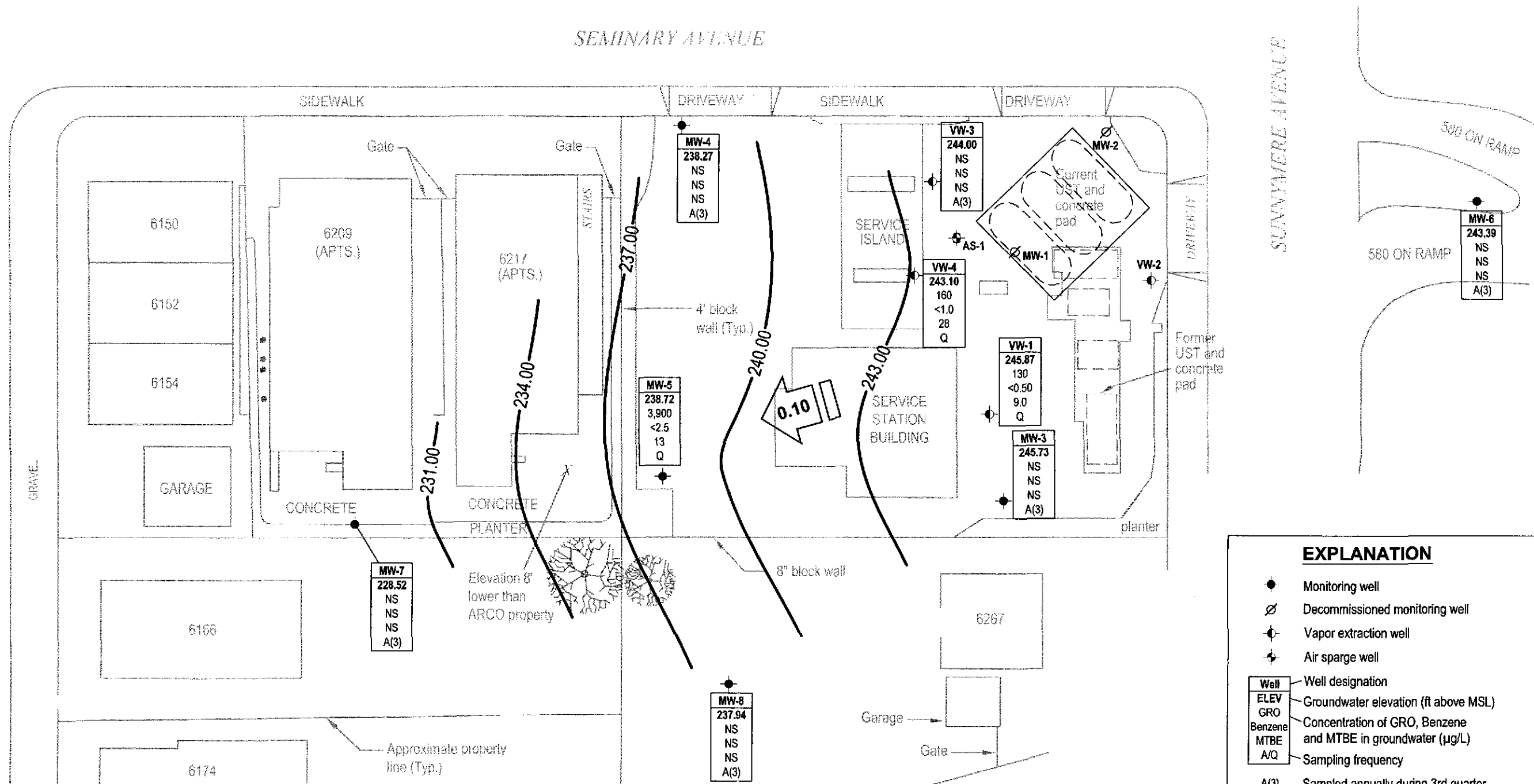
Gasoline range organics were detected at or above the laboratory reporting limit in all of the three wells sampled this quarter at concentrations ranging from 130 micrograms per liter ($\mu\text{g/L}$) (VW-1) to 3,900 $\mu\text{g/L}$ (MW-5).

Ethylbenzene was detected at or above the laboratory reporting limits in one well at a concentration of 15 $\mu\text{g/L}$ (MW-5). Xylenes were detected at or above the laboratory reporting limit in two wells at concentrations of 0.57 $\mu\text{g/L}$ (VW-1) and 8.3 $\mu\text{g/L}$ (MW-5). Methyl tert-butyl ether was detected at or above the laboratory reporting limit in all three wells at concentrations ranging from 9.0 $\mu\text{g/L}$ (VW-1) to 28 $\mu\text{g/L}$ (VW-4). Tert-butyl alcohol and ethyl tert-butyl ether were detected at or above their respective laboratory reporting limits in one well (VW-4) at concentrations of 2,400 $\mu\text{g/L}$ and 2.2 $\mu\text{g/L}$, respectively. No other fuel components were detected at or above their respective laboratory reporting limits in any wells sampled this quarter.

Prior to sampling, well VW-4 de-watered after purging 11 gallons.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – December 2, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Gradient Data
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations



EXPLANATION	
	Monitoring well
	Decommissioned monitoring well
	Vapor extraction well
	Air sparge well
Well	Well designation
ELEV	Groundwater elevation (ft above MSL)
GRO	Concentration of GRO, Benzene and MTBE in groundwater (µg/L)
Benzene	
MTBE	
A/Q	Sampling frequency
A(3)	Sampled annually during 3rd quarter
Q	Sampled quarterly
NS	Not sampled
<	Not detected at or above laboratory reporting limits
	243.00 Groundwater elevation contour (ft/MSL)
	Approximate groundwater flow direction and gradient (ft/ft)

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

Dec 28, 2005 - 4:49pm X:\env\waste\BP GEM Sites\Scott Robinson\Paul_Supple\6002\Monitoring 2005 Q4\Drawings\6002-4Q05-CW.dwg

URS	Project No. 38487187	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE
	Former ARCO Service Station #6002 6235 Seminary Avenue Oakland, California		

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002
6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
AS-1	6/29/1995	--		--	20.00	22.00	9.20	--	--	<50	1.6	<0.5	0.9	0.9	--	--	--
MW-1	3/15/1995	--		247.06	4.50	24.50	7.37	--	239.69	13,000	1,200	44	770	1,100	--	--	--
	5/30/1995	--		247.06	4.50	24.50	8.48	--	238.58	19,000	1,600	30	890	1,400	--	--	--
	9/1/1995	--		247.06	4.50	24.50	9.47	--	237.59	14,000	1,300	28	480	780	24,000	--	--
	11/13/1995	--	a, b	247.06	4.50	24.50	8.78	0.01	238.29	11,000	570	17	260	410	25,000	--	--
	2/23/1996	--	d	247.06	4.50	24.50	--	--	--	--	--	--	--	--	--	--	--
MW-2	3/15/1995	--		249.3	5.00	17.50	8.25	--	241.05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	5/30/1995	--		249.3	5.00	17.50	9.93	--	239.37	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	9/1/1995	--		249.3	5.00	17.50	10.69	--	238.61	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/13/1995	--		249.3	5.00	17.50	10.32	--	238.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	2/23/1996	--	d	249.3	5.00	17.50	--	--	--	--	--	--	--	--	--	--	--
MW-3	3/15/1995	--		248.35	5.00	24.50	6.76	--	241.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	5/30/1995	--		248.35	5.00	24.50	7.81	--	240.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	9/1/1995	--		248.35	5.00	24.50	8.65	--	239.70	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/13/1995	--		248.35	5.00	24.50	8.25	--	240.10	120	45	0.7	<0.5	6.2	--	--	--
	2/23/1996	--		248.35	5.00	24.50	6.64	--	241.71	<50	<0.5	<0.5	0.6	1.9	<3	--	--
	5/10/1996	--		248.35	5.00	24.50	7.95	--	240.40	--	--	--	--	--	--	--	--
	8/9/1996	--		248.35	5.00	24.50	8.06	--	240.29	--	--	--	--	--	--	--	--
	11/8/1996	--	e	248.35	5.00	24.50	--	--	--	--	--	--	--	--	--	--	--
	3/21/1997	--		248.35	5.00	24.50	8.21	--	240.14	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/27/1997	--		248.35	5.00	24.50	8.25	--	240.10	--	--	--	--	--	--	--	--
	8/5/1997	--		248.35	5.00	24.50	8.29	--	240.06	--	--	--	--	--	--	--	--
	10/29/1997	--		248.35	5.00	24.50	8.58	--	239.77	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/25/1998	--		248.35	5.00	24.50	7.69	--	240.66	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/12/1998	--		248.35	5.00	24.50	8.20	--	240.15	--	--	--	--	--	--	--	--
	7/28/1998	--		248.35	5.00	24.50	8.55	--	239.80	--	--	--	--	--	--	--	--
	10/27/1998	--		248.35	5.00	24.50	8.30	--	240.05	--	--	--	--	--	--	--	--
	2/8/1999	--		248.35	5.00	24.50	7.90	--	240.45	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	6/1/1999	--		248.35	5.00	24.50	8.40	--	239.95	--	--	--	--	--	--	--	--
	8/25/1999	--		248.35	5.00	24.50	8.49	--	239.86	--	--	--	--	--	--	1.67	--
	10/29/1999	--		248.35	5.00	24.50	8.52	--	239.83	--	--	--	--	--	--	6.9	--
	2/16/2000	NP		248.35	5.00	24.50	8.03	--	240.32	<50	<0.5	0.8	<0.5	<1	<3	8.51	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-3	6/23/2000	--		248.35	5.00	24.50	7.55	--	240.80	--	--	--	--	--	--	2.1	--
	8/17/2000	--		248.35	5.00	24.50	8.65	--	239.70	--	--	--	--	--	--	1.1	--
	11/10/2000	--		248.35	5.00	24.50	7.19	--	241.16	--	--	--	--	--	--	--	--
	2/12/2001	NP		248.35	5.00	24.50	8.60	--	239.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.81	--
	4/13/2001	--		248.35	5.00	24.50	6.13	--	242.22	--	--	--	--	--	--	--	--
	7/18/2001	--		248.35	5.00	24.50	6.47	--	241.88	--	--	--	--	--	--	--	--
	10/1/2001	--		248.35	5.00	24.50	6.99	--	241.36	--	--	--	--	--	--	--	--
	1/14/2002	NP		248.35	5.00	24.50	5.47	--	242.88	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	4/3/2002	--		248.35	5.00	24.50	6.95	--	241.40	--	--	--	--	--	--	--	--
	8/8/2002	--		248.35	5.00	24.50	8.78	--	239.57	--	--	--	--	--	--	--	--
	11/27/2002	--		248.35	5.00	24.50	8.52	--	239.83	--	--	--	--	--	--	--	--
	2/10/2003	NP		248.35	5.00	24.50	8.40	--	239.95	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	6.4
	6/3/2003	--		248.35	5.00	24.50	8.40	--	239.95	--	--	--	--	--	--	--	--
	8/14/2003	--		248.35	5.00	24.50	8.60	--	239.75	--	--	--	--	--	--	--	--
	11/13/2003	--		248.35	5.00	24.50	8.41	--	239.94	--	--	--	--	--	--	--	--
	02/13/2004	--		253.88	5.00	24.50	8.40	--	245.48	--	--	--	--	--	--	--	--
	05/05/2004	--		253.88	5.00	24.50	8.28	--	245.60	--	--	--	--	--	--	--	--
	08/30/2004	NP		253.88	5.00	24.50	10.32	--	243.56	<50	<0.50	<0.50	<0.50	<0.50	0.72	1.4	6.4
	11/08/2004	--		253.88	5.00	24.50	8.12	--	245.76	--	--	--	--	--	--	--	--
	02/07/2005	--		253.88	5.00	24.50	8.20	--	245.68	--	--	--	--	--	--	--	--
	05/09/2005	--		253.88	5.00	24.50	8.23	--	245.65	--	--	--	--	--	--	--	--
	08/11/2005	NP		253.88	5.00	24.50	8.72	--	245.16	<50	<0.50	<0.50	<0.50	<0.50	0.73	1.6	6.1
	12/02/2005	--		253.88	5.00	24.50	8.15	--	245.73	--	--	--	--	--	--	--	--
MW-4	3/15/1995	--		242.91	4.50	24.50	9.37	--	233.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	5/30/1995	--		242.91	4.50	24.50	11.47	--	231.44	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	9/1/1995	--		242.91	4.50	24.50	12.28	--	230.63	78	<0.5	0.7	<0.5	<0.5	<3	--	--
	11/13/1995	--		242.91	4.50	24.50	11.75	--	231.16	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	2/23/1996	--		242.91	4.50	24.50	8.51	--	234.40	59	1.2	7.4	1.6	9.3	3	--	--
	5/10/1996	--		242.91	4.50	24.50	11.35	--	231.56	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	8/9/1996	--		242.91	4.50	24.50	9.70	--	233.21	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/8/1996	--		242.91	4.50	24.50	11.79	--	231.12	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	3/21/1997	--		242.91	4.50	24.50	10.94	--	231.97	<50	<0.5	<0.5	<0.5	<0.5	81	--	--
	5/27/1997	--		242.91	4.50	24.50	11.51	--	231.40	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--

Table 1

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Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-4	8/5/1997	--		242.91	4.50	24.50	11.90	--	231.01	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	10/29/1997	--		242.91	4.50	24.50	12.00	--	230.91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/25/1998	--		242.91	4.50	24.50	8.34	--	234.57	<50	<0.5	0.9	<0.5	0.9	4	--	--
	5/12/1998	--		242.91	4.50	24.50	10.93	--	231.98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	7/28/1998	--		242.91	4.50	24.50	12.08	--	230.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	10/27/1998	--		242.91	4.50	24.50	11.40	--	231.51	<5,000	<50	<50	160	64	6,400	--	--
	2/8/1999	--		242.91	4.50	24.50	8.40	--	234.51	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	6/1/1999	NP		242.91	4.50	24.50	11.93	--	230.98	<50	<0.5	<0.5	<0.5	<0.5	<3	4	6.26
	8/25/1999	NP		242.91	4.50	24.50	12.21	--	230.70	<50	<0.5	<0.5	<0.5	<0.5	<3	1.29	6.34
	10/29/1999	NP		242.91	4.50	24.50	12.37	--	230.54	<50	<0.5	<0.5	<0.5	<1	<3	1.5	5.60
	2/16/2000	NP		242.91	4.50	24.50	7.45	--	235.46	<50	<0.5	<0.5	<0.5	<1	<3	2.38	--
	6/23/2000	NP		242.91	4.50	24.50	12.31	--	230.60	<50	<0.50	<0.50	<0.50	<0.50	<2.50	2.8	--
	8/17/2000	--	f	242.91	4.50	24.50	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50	--	--
	8/17/2000	NP		242.91	4.50	24.50	11.92	--	230.99	<50	<0.50	<0.50	<0.50	<0.50	<2.50	2.38	--
	11/10/2000	NP		242.91	4.50	24.50	10.80	--	232.11	<50	<0.50	<0.50	<0.50	<0.50	<2.50	1.55	--
	2/12/2001	NP		242.91	4.50	24.50	11.65	--	231.26	<50	<0.50	<0.50	<0.50	<0.50	<2.50	1.12	--
	4/13/2001	--	f	242.91	4.50	24.50	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.50	--	--
	4/13/2001	NP		242.91	4.50	24.50	8.17	--	234.74	<50	<0.50	<0.50	<0.50	<0.50	<2.50	--	--
	7/18/2001	NP		242.91	4.50	24.50	8.51	--	234.40	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	10/1/2001	NP		242.91	4.50	24.50	8.71	--	234.20	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	1/14/2002	--	f	242.91	4.50	24.50	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	1/14/2002	NP		242.91	4.50	24.50	7.13	--	235.78	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	4/3/2002	NP		242.91	4.50	24.50	10.10	--	232.81	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	8/8/2002	NP		242.91	4.50	24.50	12.64	--	230.27	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4	8.1
	11/27/2002	NP		242.91	4.50	24.50	12.01	--	230.90	<50	<0.50	<0.50	<0.50	<0.50	4.7	2.5	6.5
	2/10/2003	NP		242.91	4.50	24.50	11.22	--	231.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	6.6
	6/3/2003	--		242.91	4.50	24.50	11.54	--	231.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.9	6
	8/14/2003	--		242.91	4.50	24.50	12.41	--	230.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	6.3
	11/13/2003	--		242.91	4.50	24.50	11.64	--	231.27	--	--	--	--	--	--	--	--
	02/13/2004	--		248.62	4.50	24.50	10.28	--	238.34	--	--	--	--	--	--	--	--
	05/05/2004	--		248.62	4.50	24.50	12.04	--	236.58	--	--	--	--	--	--	--	--
	08/30/2004	NP		248.62	4.50	24.50	12.98	--	235.64	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	5.8
	11/08/2004	--		248.62	4.50	24.50	11.29	--	237.33	--	--	--	--	--	--	--	--
	02/07/2005	--		248.62	4.50	24.50	10.03	--	238.59	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH	
MW-4	05/09/2005	--		248.62	4.50	24.50	10.65	--	237.97	--	--	--	--	--	--	--	--	
	08/11/2005	NP		248.62	4.50	24.50	12.68	--	235.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	6.5	
	12/02/2005	--		248.62	4.50	24.50	10.35	--	238.27	--	--	--	--	--	--	--	--	
MW-5	3/15/1995	--		244.82	5.00	24.50	11.99	--	232.83	21,000	870	22	1,600	1,900	--	--	--	
	5/30/1995	--		244.82	5.00	24.50	12.97	--	231.85	17,000	2,100	250	1,000	520	--	--	--	
	9/1/1995	--		244.82	5.00	24.50	14.03	--	230.79	19,000	1,500	25	1,600	880	8,300	--	--	
	11/13/1995	--		244.82	5.00	24.50	13.65	--	231.17	21,000	1,300	22	1,400	630	--	--	--	
	2/23/1996	--		244.82	5.00	24.50	11.93	--	232.89	27,000	1,300	<50	1,600	1,500	730	--	--	
	5/10/1996	--		244.82	5.00	24.50	13.05	--	231.77	17,000	460	21	760	480	1,000	--	--	
	8/9/1996	--		244.82	5.00	24.50	13.22	--	231.60	16,000	420	14	870	390	1,500	--	--	
	11/8/1996	--	e	244.82	5.00	24.50	--	--	--	--	--	--	--	--	--	--	--	--
	3/21/1997	--		244.82	5.00	24.50	13.24	--	231.58	18,000	110	<50	730	1,500	1,800	--	--	
	5/27/1997	--		244.82	5.00	24.50	13.10	--	231.72	21,000	86	<20	810	610	1,700	--	--	
	8/5/1997	--		244.82	5.00	24.50	13.14	--	231.68	340	2.2	<0.5	15	8.8	39	--	--	
	10/29/1997	--		244.82	5.00	24.50	13.03	--	231.79	19,000	130	<20	1,400	620	1,700	--	--	
	2/25/1998	--		244.82	5.00	24.50	11.33	--	233.49	8,500	19	13	190	100	170	--	--	
	5/12/1998	--		244.82	5.00	24.50	12.81	--	232.01	10,000	34	<10	390	220	610	--	--	
	7/28/1998	--		244.82	5.00	24.50	13.12	--	231.70	15,000	68	<10	690	620	1,000	--	--	
	10/27/1998	--		244.82	5.00	24.50	12.90	--	231.92	15,000	60	<10	770	400	890	--	--	
	2/8/1999	--		244.82	5.00	24.50	11.08	--	233.74	8,200	23	<10	290	120	<60	--	--	
	6/1/1999	NP		244.82	5.00	24.50	12.95	--	231.87	11,000	33	3.3	340	180	580	1	6.49	
	8/25/1999	NP		244.82	5.00	24.50	12.99	--	231.83	9,200	26	14	420	270	1,100	0.37	7.78	
	10/29/1999	NP		244.82	5.00	24.50	13.10	--	231.72	11,000	19	9.8	260	150	590	1.27	6.2	
	2/16/2000	NP		244.82	5.00	24.50	8.21	--	236.61	12,000	8.1	10	340	160	130	1.42	--	
	6/23/2000	NP		244.82	5.00	24.50	12.90	--	231.92	9,680	38	<20.0	212	114	930	1.4	--	
	8/17/2000	NP		244.82	5.00	24.50	13.00	--	231.82	10,500	15	7.98	223	118	430	0.68	--	
11/10/2000	NP		244.82	5.00	24.50	12.50	--	232.32	7,030	19.7	<10.0	190	43.6	445	1.27	--		
2/12/2001	NP		244.82	5.00	24.50	12.81	--	232.01	8,840	33.9	<10.0	186	56.4	352	0.4	--		
4/13/2001	NP		244.82	5.00	24.50	11.31	--	233.51	9,020	54.2	43.3	137	96	297	--	--		
7/18/2001	NP		244.82	5.00	24.50	11.59	--	233.23	13,000	19	10	110	49	230	--	--		
10/1/2001	NP		244.82	5.00	24.50	11.84	--	232.98	8,500	6.9	<1.0	87	27	220	--	--		
1/14/2002	NP		244.82	5.00	24.50	10.75	--	234.07	9,500	<20	<20	140	22	<200	--	--		
4/3/2002	NP	f	244.82	5.00	24.50	--	--	--	2,700	24	5.1	92	8.5	130	--	--		

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-5	4/3/2002	NP		244.82	5.00	24.50	12.50	--	232.32	2,400	21	<5.0	91	8.5	130	--	--
	8/8/2002	NP		244.82	5.00	24.50	12.83	--	231.99	2,000	<20	<20	48	<20	520	0.8	6.9
	11/27/2002	NP		244.82	5.00	24.50	12.79	--	232.03	2,200	<10	<10	33	<10	150	0.8	6.4
	2/10/2003	NP		244.82	5.00	24.50	12.62	--	232.20	2,600	<2.5	<2.5	47	4.2	100	0.7	6.6
	6/3/2003	--		244.82	5.00	24.50	12.41	--	232.41	2,400	<5.0	<5.0	26	<5.0	160	1.8	6.3
	8/14/2003	--	e	244.82	5.00	24.50	--	--	--	--	--	--	--	--	--	--	--
	11/13/2003	NP		244.82	5.00	24.50	12.49	--	232.33	1,900	<5.0	<5.0	13	<5.0	90	0.9	6.4
	02/13/2004	NP		250.55	5.00	24.50	12.38	--	238.17	1,400	1.4	1.9	23	3.6	90	1.1	62.8
	05/05/2004	NP		250.55	5.00	24.50	12.68	--	237.87	5,800	<2.5	<2.5	13	<2.5	130	1.1	6.3
	08/30/2004	P		250.55	5.00	24.50	12.96	--	237.59	4,100	<2.5	<2.5	<2.5	<2.5	85	--	6.4
	11/08/2004	NP		250.55	5.00	24.50	12.10	--	238.45	3,300	14	1.9	17	6.1	69	1.05	6.0
	02/07/2005	NP		250.55	5.00	24.50	12.02	--	238.53	3,500	<1.0	1.1	16	2.6	15	0.95	6.5
	05/09/2005	NP	j	250.55	5.00	24.50	11.94	--	238.61	3,400	<1.0	1.7	12	2.2	19	2.2	6.7
	08/11/2005	NP		250.55	5.00	24.50	12.77	--	237.78	5,700	<2.5	<2.5	13	<2.5	51	0.7	6.0
	12/02/2005	NP		250.55	5.00	24.50	11.83	--	238.72	3,900	<2.5	<2.5	15	8.3	13	1.41	6.9
MW-6	6/29/1995	--		--	17.00	31.50	6.63	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	9/1/1995	--		--	17.00	31.50	--	--	--	--	--	--	--	--	--	--	--
	11/13/1995	--		--	17.00	31.50	7.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/23/1996	--		--	17.00	31.50	9.82	--	--	<50	<0.5	0.8	<0.5	0.6	<3	--	--
	5/10/1996	--		--	17.00	31.50	15.25	--	--	--	--	--	--	--	--	--	--
	8/9/1996	--		252.2	17.00	31.50	11.11	--	241.09	--	--	--	--	--	--	--	--
	11/8/1996	--		252.2	17.00	31.50	9.31	--	242.89	--	--	--	--	--	--	--	--
	3/21/1997	--		252.2	17.00	31.50	9.40	--	242.80	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/27/1997	--		252.2	17.00	31.50	7.08	--	245.12	--	--	--	--	--	--	--	--
	8/5/1997	--		252.2	17.00	31.50	7.12	--	245.08	--	--	--	--	--	--	--	--
	10/29/1997	--		252.2	17.00	31.50	7.42	--	244.78	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/25/1998	--		252.2	17.00	31.50	10.35	--	241.85	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/12/1998	--		252.2	17.00	31.50	15.83	--	236.37	--	--	--	--	--	--	--	--
	7/28/1998	--		252.2	17.00	31.50	11.84	--	240.36	--	--	--	--	--	--	--	--
	10/27/1998	--		252.2	17.00	31.50	9.73	--	242.47	--	--	--	--	--	--	--	--
	2/8/1999	--		252.2	17.00	31.50	8.10	--	244.10	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	6/1/1999	--		252.2	17.00	31.50	17.84	--	234.36	--	--	--	--	--	--	--	--
	8/25/1999	--		252.2	17.00	31.50	11.00	--	241.20	--	--	--	--	--	--	0.77	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-6	10/29/1999	--		252.2	17.00	31.50	9.03	--	243.17	--	--	--	--	--	--	3.42	--
	2/16/2000	P		252.2	17.00	31.50	7.71	--	244.49	<50	<0.5	<0.5	<0.5	<1	<3	2.42	--
	6/23/2000	--		252.2	17.00	31.50	6.69	--	245.51	--	--	--	--	--	--	2.3	--
	8/17/2000	--		252.2	17.00	31.50	6.95	--	245.25	--	--	--	--	--	--	2.51	--
	11/10/2000	--		252.2	17.00	31.50	11.79	--	240.41	--	--	--	--	--	--	--	--
		--	f	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/12/2001	P		252.2	17.00	31.50	7.35	--	244.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.66	7.77
	4/13/2001	--		252.2	17.00	31.50	10.52	--	241.68	--	--	--	--	--	--	--	--
	7/18/2001	--		252.2	17.00	31.50	11.03	--	241.17	--	--	--	--	--	--	--	--
	10/1/2001	--		252.2	17.00	31.50	11.31	--	240.89	--	--	--	--	--	--	--	--
	1/14/2002	P		252.2	17.00	31.50	9.87	--	242.33	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	4/3/2002	--		252.2	17.00	31.50	12.19	--	240.01	--	--	--	--	--	--	--	--
	8/8/2002	--		252.2	17.00	31.50	7.04	--	245.16	--	--	--	--	--	--	--	--
	11/27/2002	--		252.2	17.00	31.50	6.85	--	245.35	--	--	--	--	--	--	--	--
	2/10/2003	NP		252.2	17.00	31.50	6.74	--	245.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	7.4
	6/3/2003	--		252.2	17.00	31.50	14.35	--	237.85	--	--	--	--	--	--	--	--
	8/14/2003	--		252.2	17.00	31.50	10.74	--	241.46	--	--	--	--	--	--	--	--
	11/13/2003	--		252.20	17.00	31.50	10.68	--	241.52	--	--	--	--	--	--	--	--
	02/13/2004	--		257.94	17.00	31.50	7.38	--	250.56	--	--	--	--	--	--	--	--
	05/05/2004	--		257.94	17.00	31.50	7.43	--	250.51	--	--	--	--	--	--	--	--
	08/30/2004	P		257.94	17.00	31.50	7.39	--	250.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.5	7.0
	11/08/2004	--		257.94	17.00	31.50	15.57	--	242.37	--	--	--	--	--	--	--	--
	02/07/2005	--		257.94	17.00	31.50	15.26	--	242.68	--	--	--	--	--	--	--	--
	05/09/2005	--		257.94	17.00	31.50	11.31	--	246.63	--	--	--	--	--	--	--	--
	08/11/2005	P		257.94	17.00	31.50	9.80	--	248.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	7.1
	12/02/2005	--		257.94	17.00	31.50	14.55	--	243.39	--	--	--	--	--	--	--	--
MW-7	8/9/1996	--	g	235.95	8.50	13.50	--	--	--	--	--	--	--	--	--	--	--
	11/8/1996	--	g	235.95	8.50	13.50	--	--	--	--	--	--	--	--	--	--	--
	1/27/1997	--		235.95	8.50	13.50	--	--	--	2,900	29	<5	<5	580	220	--	--
	3/21/1997	--		235.95	8.50	13.50	7.13	--	228.82	590	3.5	<0.5	<0.5	1.3	90	--	--
	5/27/1997	--		235.95	8.50	13.50	9.02	--	226.93	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	8/5/1997	--		235.95	8.50	13.50	12.33	--	223.62	110	0.5	<0.5	<0.5	0.8	81	--	--
	10/29/1997	--	g	235.95	8.50	13.50	--	--	--	--	--	--	--	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data
Former ARCO Service Station #6002
6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-7	2/25/1998	--		235.95	8.50	13.50	8.04	--	227.91	<50	<0.5	0.6	<0.5	0.7	<3	--	--
	5/12/1998	--		235.95	8.50	13.50	8.88	--	227.07	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	7/28/1998	--		235.95	8.50	13.50	10.50	--	225.45	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	10/27/1998	--		235.95	8.50	13.50	8.75	--	227.20	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/8/1999	--		235.95	8.50	13.50	9.35	--	226.60	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	6/1/1999	NP		235.95	8.50	13.50	9.85	--	226.10	250	<0.5	0.6	<0.5	1.6	18	1	6.43
	8/25/1999	NP		235.95	8.50	13.50	11.31	--	224.64	119	<0.5	5.7	<0.5	<0.5	11	0.41	8.28
	10/29/1999	NP		235.95	8.50	13.50	9.08	--	226.87	<50	<0.5	<0.5	<0.5	<1	<3	1.29	5.82
	2/25/2000	NP		235.95	8.50	13.50	8.02	--	227.93	<50	<0.5	<0.5	<0.5	<1	38	2.1	--
	6/23/2000	NP		235.95	8.50	13.50	10.68	--	225.27	<50	<0.50	<0.50	<0.50	<0.50	14.4	1.6	--
	8/17/2000	NP		235.95	8.50	13.50	11.85	--	224.10	70	<0.500	0.678	<0.500	1.07	14.2	1.59	--
	11/10/2000	NP		235.95	8.50	13.50	9.62	--	226.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.09	--
	2/12/2001	NP		235.95	8.50	13.50	12.10	--	223.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.84	--
	4/13/2001	P		235.95	8.50	13.50	7.95	--	228.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	7/18/2001	P		235.95	8.50	13.50	8.20	--	227.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	10/1/2001	NP		235.95	8.50	13.50	8.59	--	227.36	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	1/14/2002	P		235.95	8.50	13.50	6.93	--	229.02	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	4/3/2002	P		235.95	8.50	13.50	8.31	--	227.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	8/8/2002	P	h	235.95	8.50	13.50	12.11	--	223.84	--	--	--	--	--	--	--	--
	11/27/2002	NP	h	235.95	8.50	13.50	13.01	--	222.94	--	--	--	--	--	--	--	--
	2/10/2003	NP		235.95	8.50	13.50	10.02	--	225.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	6.7
	6/3/2003	NP		235.95	8.50	13.50	6.82	--	229.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8.1	6.8
	8/14/2003	P		235.95	8.50	13.50	8.16	--	227.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8	6.7
	11/13/2003	--		235.95	8.50	13.50	8.07	--	227.88	--	--	--	--	--	--	--	--
	02/13/2004	--		241.64	8.50	13.50	7.62	--	234.02	--	--	--	--	--	--	--	--
	05/05/2004	--		241.64	8.50	13.50	11.01	--	230.63	--	--	--	--	--	--	--	--
	08/30/2004	--	h	241.64	8.50	13.50	13.27	--	228.37	--	--	--	--	--	--	--	--
	11/08/2004	--		241.64	8.50	13.50	13.22	--	228.42	--	--	--	--	--	--	--	--
	02/07/2005	--		241.64	8.50	13.50	13.07	--	228.57	--	--	--	--	--	--	--	--
	05/09/2005	--		241.64	8.50	13.50	7.57	--	234.07	--	--	--	--	--	--	--	--
	08/11/2005	NP		241.64	8.50	13.50	11.55	--	230.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.7
	12/02/2005	--		241.64	8.50	13.50	13.12	--	228.52	--	--	--	--	--	--	--	--
MW-8	8/9/1996	--		240.37	5.50	14.00	9.41	--	230.96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--

Table 1
Groundwater Elevation and Analytical Data
Former ARCO Service Station #6002
6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-8	11/8/1996	--		240.37	5.50	14.00	9.19	--	231.18	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	3/21/1997	--		240.37	5.50	14.00	8.55	--	231.82	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/27/1997	--		240.37	5.50	14.00	11.06	--	229.31	91	0.6	<0.5	<0.5	0.6	66	--	--
	8/5/1997	--		240.37	5.50	14.00	9.32	--	231.05	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	10/29/1997	--		240.37	5.50	14.00	9.35	--	231.02	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/25/1998	--		240.37	5.50	14.00	7.08	--	233.29	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/12/1998	--		240.37	5.50	14.00	8.61	--	231.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	7/28/1998	--		240.37	5.50	14.00	9.63	--	230.74	<50	<0.5	<0.5	<0.5	<0.5	4	--	--
	10/27/1998	--		240.37	5.50	14.00	9.30	--	231.07	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/8/1999	--		240.37	5.50	14.00	5.56	--	234.81	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	6/1/1999	--	e	240.37	5.50	14.00	--	--	--	--	--	--	--	--	--	--	--
	8/25/1999	--	e	240.37	5.50	14.00	--	--	--	--	--	--	--	--	--	--	--
	10/29/1999	--	e	240.37	5.50	14.00	--	--	--	--	--	--	--	--	--	--	--
	2/16/2000	--	e	240.37	5.50	14.00	--	--	--	--	--	--	--	--	--	--	--
	6/23/2000	NP		240.37	5.50	14.00	9.45	--	230.92	<50	<0.50	<0.50	<0.500	<0.50	<2.5	1.9	--
	8/17/2000	NP		240.37	5.50	14.00	6.40	--	233.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.56	--
	11/10/2000	--	f	240.37	5.50	14.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	11/10/2000	NP		240.37	5.50	14.00	6.25	--	234.12	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.93	--
	2/12/2001	NP		240.37	5.50	14.00	8.11	--	232.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.65	--
	4/13/2001	P		240.37	5.50	14.00	5.19	--	235.18	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	7/18/2001	NP		240.37	5.50	14.00	5.55	--	234.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	10/1/2001	NP		240.37	5.50	14.00	6.41	--	233.96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	1/14/2002	P		240.37	5.50	14.00	5.07	--	235.30	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--
	4/3/2002	P		240.37	5.50	14.00	8.60	--	231.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--
	8/8/2002	P		240.37	5.50	14.00	9.58	--	230.79	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7	7
	11/27/2002	P		240.37	5.50	14.00	9.15	--	231.22	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	6.7
	2/10/2003	P		240.37	5.50	14.00	8.55	--	231.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.6
	6/3/2003	--		240.37	5.50	14.00	8.72	--	231.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	9.1	6.3
	8/14/2003	--		240.37	5.50	14.00	9.52	--	230.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.5	6.4
	11/13/2003	--		240.37	5.50	14.00	9.45	--	230.92	--	--	--	--	--	--	--	--
	02/13/2004	--		246.09	5.50	14.00	8.38	--	237.71	--	--	--	--	--	--	--	--
	05/05/2004	--		246.09	5.50	14.00	9.30	--	236.79	--	--	--	--	--	--	--	--
	08/30/2004	P		246.09	5.50	14.00	9.69	--	236.40	<50	<0.50	<0.50	<0.50	0.75	<0.50	5.1	6.5
	11/08/2004	--		246.09	5.50	14.00	8.34	--	237.75	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-8	02/07/2005	--		246.09	5.50	14.00	8.23	--	237.86	--	--	--	--	--	--	--	--
	05/09/2005	--		246.09	5.50	14.00	7.07	--	239.02	--	--	--	--	--	--	--	--
	08/11/2005	--	e	246.09	5.50	14.00	--	--	--	--	--	--	--	--	--	--	--
	12/02/2005	--		246.09	5.50	14.00	8.15	--	237.94	--	--	--	--	--	--	--	--
VW-1	2/23/1996	--		--	6.00	14.00	5.29	--	--	21,000	490	57	520	1,500	240	--	--
	5/10/1996	--		--	6.00	14.00	6.80	--	--	3,700	61	<5	100	50	200	--	--
	8/9/1996	--		--	6.00	14.00	7.03	--	--	970	2.7	<2.5	2.7	3.7	180	--	--
	11/8/1996	--	e	--	6.00	14.00	--	--	--	--	--	--	--	--	--	--	--
	3/21/1997	--		--	6.00	14.00	7.51	--	--	640	<4	<1	1	3	194	--	--
	5/27/1997	--		--	6.00	14.00	7.51	--	--	--	--	--	--	--	--	--	--
	8/5/1997	--		--	6.00	14.00	7.51	--	--	630	<1	<1	3	2	120	--	--
	10/29/1997	--		--	6.00	14.00	7.53	--	--	600	<0.5	<0.5	<0.5	1.6	84	--	--
	2/25/1998	--		--	6.00	14.00	6.77	--	--	230	<4	<0.7	1.2	0.5	27	--	--
	5/12/1998	--		--	6.00	14.00	7.43	--	--	340	<0.5	0.5	2.3	0.8	29	--	--
	7/28/1998	--		--	6.00	14.00	7.00	--	--	240	<0.5	<0.5	<0.5	1.1	54	--	--
	10/27/1998	--		--	6.00	14.00	7.52	--	--	230	<0.5	<0.5	<0.5	<0.5	65	--	--
	2/8/1999	--	c	--	6.00	14.00	7.05	--	--	<50	<0.5	<0.5	<0.5	<0.5	<3/36	--	--
	6/1/1999	NP		--	6.00	14.00	7.55	--	--	180	<0.5	<0.5	<0.5	<0.5	23	1	6.36
	8/25/1999	NP		--	6.00	14.00	7.66	--	--	130	<0.5	5.6	<0.5	<0.5	40	0.39	7.5
	10/29/1999	NP		--	6.00	14.00	7.59	--	--	200	1	<0.5	0.6	1.6	36	0.89	5.65
	2/16/2000	NP		--	6.00	14.00	7.03	--	--	210	<0.5	0.9	2.2	1.9	11	1.41	--
	6/23/2000	NP		--	6.00	14.00	7.71	--	--	175	1.04	<0.500	<0.500	<0.500	14.4	1.9	--
	8/17/2000	NP		--	6.00	14.00	7.75	--	--	180	<0.500	<0.500	0.622	0.76	23.7	0.63	--
	11/10/2000	NP		--	6.00	14.00	6.83	--	--	157	0.955	<0.500	0.973	<0.500	32.5	1.03	--
	2/12/2001	NP		--	6.00	14.00	7.85	--	--	273	0.627	<0.500	<0.500	0.507	9.19	0.47	--
	4/13/2001	P		--	6.00	14.00	5.11	--	--	213	<0.500	<0.500	<0.500	<0.500	6.38	--	--
	7/18/2001	P		--	6.00	14.00	5.39	--	--	270	<0.50	<0.50	<0.50	<0.50	20	--	--
	10/1/2001	NP		--	6.00	14.00	6.50	--	--	200	<0.50	<0.50	<0.50	0.81	14	--	--
	1/14/2002	P		--	6.00	14.00	5.04	--	--	110	<0.50	<0.50	<0.50	<0.50	6.4	--	--
	4/3/2002	P		--	6.00	14.00	7.51	--	--	91	0.72	<0.50	<0.50	<0.50	12	--	--
	8/8/2002	P		--	6.00	14.00	9.58	--	--	<50	<0.50	<0.50	<0.50	<0.50	33	0.6	6.3
	11/27/2002	P		--	6.00	14.00	7.42	--	--	52	0.72	0.78	<0.50	<0.50	21	1	6.1
	2/10/2003	NP		--	6.00	14.00	7.38	--	--	52	<0.50	<0.50	<0.50	<0.50	11	1.7	6.5

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
VW-1	6/3/2003	--		--	6.00	14.00	7.30	--	--	71	<0.50	<0.50	<0.50	<0.50	13	3.3	6.3
	8/14/2003	--		--	6.00	14.00	7.59	--	--	<50	<0.50	<0.50	<0.50	<0.50	18	0.3	6.1
	11/13/2003	P		--	6.00	14.00	7.43	--	--	<50	<0.50	<0.50	<0.50	<0.50	13	0.6	6.1
	02/13/2004	P		253.19	6.00	14.00	7.35	--	245.84	59	<0.50	<0.50	<0.50	0.56	8.0	1.0	6.0
	05/05/2004	P		253.19	6.00	14.00	7.30	--	245.89	<50	0.71	<0.50	<0.50	0.60	11	0.1	6.4
	08/30/2004	P		253.19	6.00	14.00	8.50	--	244.69	<50	<0.50	<0.50	<0.50	<0.50	24	0.2	6.2
	11/08/2004	P		253.19	6.00	14.00	7.22	--	245.97	230	<0.50	<0.50	<0.50	0.75	27	0.65	5.1
	02/07/2005	P		253.19	6.00	14.00	7.25	--	245.94	<50	<0.50	<0.50	<0.50	<0.50	5.1	1.57	5.9
	05/09/2005	P		253.19	6.00	14.00	7.10	--	246.09	64	<0.50	<0.50	<0.50	<0.50	6.9	3.5	--
	08/11/2005	P		253.19	6.00	14.00	7.89	--	245.30	<50	<0.50	<0.50	<0.50	<0.50	10	0.04	6.3
12/02/2005	P		253.19	6.00	14.00	7.32	--	245.87	130	<0.50	<0.50	<0.50	0.57	9.0	1.85	6.6	
VW-2	2/23/1996	--	i	--	--	--	6.92	--	--	--	--	--	--	--	--	--	--
	8/8/2002	--	i	--	--	--	10.51	--	--	--	--	--	--	--	--	--	--
VW-3	8/8/2002	--		--	5.50	14.50	8.85	--	--	<50	<0.50	<0.50	<0.50	<0.50	2.5	0.7	6.1
	11/27/2002	--	i	--	5.50	14.50	8.80	--	--	--	--	--	--	--	--	--	--
	2/10/2003	--	i	--	5.50	14.50	8.41	--	--	--	--	--	--	--	--	--	--
	6/3/2003	--	i	--	5.50	14.50	8.71	--	--	--	--	--	--	--	--	--	--
	8/14/2003	--	i	--	5.50	14.50	8.81	--	--	--	--	--	--	--	--	--	--
	11/13/2003	--		--	5.50	14.50	8.75	--	--	--	--	--	--	--	--	--	--
	02/13/2004	--		252.26	5.50	14.50	8.48	--	243.78	--	--	--	--	--	--	--	--
	05/05/2004	--		252.26	5.50	14.50	8.85	--	243.41	--	--	--	--	--	--	--	--
	08/30/2004	--		252.26	5.50	14.50	9.07	--	243.19	--	--	--	--	--	--	--	--
	11/08/2004	--		252.26	5.50	14.50	8.32	--	243.94	--	--	--	--	--	--	--	--
	02/07/2005	--		252.26	5.50	14.50	8.28	--	243.98	--	--	--	--	--	--	--	--
	05/09/2005	--		252.26	5.50	14.50	8.44	--	243.82	--	--	--	--	--	--	--	--
	08/11/2005	--		252.26	5.50	14.50	8.96	--	243.30	--	--	--	--	--	--	--	--
12/02/2005	--		252.26	5.50	14.50	8.26	--	244.00	--	--	--	--	--	--	--	--	
VW-4	5/10/1996	--		--	5.50	14.50	8.58	--	--	13,000	2,500	41	420	660	43,000	--	--
	8/9/1996	--		--	5.50	14.50	11.70	--	--	<50	<0.5	<0.5	<0.5	<0.5	6,200	--	--
	11/8/1996	--		--	5.50	14.50	9.38	--	--	7,800	510	7	180	370	21,000	--	--
	3/21/1997	--		--	5.50	14.50	9.11	--	--	10,000	290	10	270	230	8,900	--	--
	5/27/1997	--		--	5.50	14.50	9.34	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
VW-4	8/5/1997	--		--	5.50	14.50	9.47	--	--	<10,000	180	<100	<100	110	12,000	--	--
	10/29/1997	--		--	5.50	14.50	9.35	--	--	9,800	200	69	260	360	4,900	--	--
	2/25/1998	--		--	5.50	14.50	7.08	--	--	<50	2.5	<0.5	<0.5	0.7	<3	--	--
	5/12/1998	--		--	5.50	14.50	9.17	--	--	3,200	<20	22	29	52	2,100	--	--
	7/28/1998	--		--	5.50	14.50	9.55	--	--	<10,000	<100	<100	<100	<100	5,100	--	--
	10/27/1998	--		--	5.50	14.50	9.92	--	--	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	2/8/1999	--	c	--	5.50	14.50	7.50	--	--	<2,500	<25	<25	28	<25	2,400/3,100	--	--
	6/1/1999	NP		--	5.50	14.50	9.87	--	--	2,100	2.5	1.1	2.5	15	3,300	2	6.69
	8/25/1999	NP		--	5.50	14.50	9.78	--	--	1,300	4.4	4.9	1.7	2.9	4,600	0.36	7.94
	10/29/1999	NP		--	5.50	14.50	9.93	--	--	1,400	<0.5	1.8	1.6	3	4,200	1.18	6.64
	2/16/2000	NP		--	5.50	14.50	7.45	--	--	1,800	<0.5	2.9	15	10	3,400	1.01	--
	6/23/2000	--	f	--	5.50	14.50	--	--	--	1,260	<2.00	<2.00	<2.00	2.73	2,720	--	--
	6/23/2000	NP		--	5.50	14.50	9.74	--	--	1,360	<2.00	2.26	<2.00	2.25	4,900	1.5	--
	8/17/2000	NP		--	5.50	14.50	9.95	--	--	2,230	<10.0	<10.0	<10.0	<10.0	5,310	1.13	--
	11/10/2000	NP		--	5.50	14.50	9.22	--	--	1,390	18.5	<5.00	<5.00	<5.00	8,840	1.25	--
	2/12/2001	NP		--	5.50	14.50	8.99	--	--	1,400	9.42	<2.00	17.8	16.1	3,570	0.91	--
	4/13/2001	NP		--	5.50	14.50	7.80	--	--	556	3.82	<1.25	<1.25	<1.25	2,450	--	--
	7/18/2001	--	f	--	5.50	14.50	--	--	--	2,000	8.7	2.2	<2.0	<2.0	3,400	--	--
	7/18/2001	NP		--	5.50	14.50	7.73	--	--	2,100	9.2	<2.0	<2.0	<2.0	3,700	--	--
	10/1/2001	--	f	--	5.50	14.50	--	--	--	1,800	<10	<10	<10	<10	5,800	--	--
	10/1/2001	NP		--	5.50	14.50	6.69	--	--	2,000	<10	<10	<10	13	5,900	--	--
	1/14/2002	P		--	5.50	14.50	5.93	--	--	580	<2.0	<2.0	<2.0	<2.0	2,700	--	--
	4/3/2002	NP		--	5.50	14.50	9.60	--	--	1,400	5.2	16	<5.0	9.6	2,200	--	--
	8/8/2002	--	i	--	5.50	14.50	10.01	--	--	--	--	--	--	--	--	--	--
	11/27/2002	P		--	5.50	14.50	10.30	--	--	<10,000	<100	<100	<100	<100	3,800	1.7	6.7
	2/10/2003	NP		--	5.50	14.50	10.06	--	--	<5,000	<50	<50	<50	<50	2,500	1	6.8
	6/3/2003	--		--	5.50	14.50	10.04	--	--	<1,000	<10	<10	<10	<10	440	1.9	6.6
	8/14/2003	--		--	5.50	14.50	9.66	--	--	<500	<5.0	<5.0	<5.0	<5.0	170	0.8	6.7
	11/13/2003	P		--	5.50	14.50	10.01	--	--	<500	<5.0	<5.0	<5.0	<5.0	130	1.7	6.4
	02/13/2004	P		252.69	5.50	14.50	9.34	--	243.35	330	<2.5	<2.5	<2.5	3.0	210	2.0	6.6
	05/05/2004	P		252.69	5.50	14.50	10.07	--	242.62	130	<1.0	<1.0	<1.0	<1.0	66	1.2	6.8
	08/30/2004	P		252.69	5.50	14.50	10.32	--	242.37	<500	<5.0	<5.0	<5.0	<5.0	220	1.1	6.6
	11/08/2004	P		252.69	5.50	14.50	9.35	--	243.34	480	<2.5	<2.5	<2.5	<2.5	140	1.1	6.0
	02/07/2005	P		252.69	5.50	14.50	9.22	--	243.47	180	<0.50	<0.50	<0.50	<0.50	47	1.83	6.5

Table 1**Groundwater Elevation and Analytical Data**

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (ft MSL)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
VW-4	05/09/2005	P		252.69	5.50	14.50	9.78	--	242.91	120	0.63	<0.50	<0.50	<0.50	37	--	--
	08/11/2005	P		252.69	5.50	14.50	10.11	--	242.58	74	<0.50	<0.50	<0.50	<0.50	15	0.7	6.7
	12/02/2005	P		252.69	5.50	14.50	9.59	--	243.10	160	<1.0	<1.0	<1.0	<1.0	28	0.75	6.9

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
BTEX = Benzene, toluene, ethylbenzene and xylenes
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

FOOTNOTES:

a = SPH detected and GWE corrected: corrected elevation (Z') = Z + (h * 0.73) where: Z: measured elevation, h: floating product thickness, 0.73: density ratio of oil to water.
b = MTBE analyzed by EPA method 8240
c = MTBE, sample also analyzed for fuel oxygenates
d = Well was decommissioned on 2/12/1996.
e = Well inaccessible.
f = Duplicate
g = Well was dry.
h = Insufficient water to sample.
i = Well is not part of the sampling program and therefore was not sampled.
j = Sheen in well.

NOTES:

Wells surveyed to NAVD'88 datum on 1/27/2004.

Beginning on the first quarter 2003 sampling event (2/10/2003), TPH-g, BTEX and MTBE analyzed by EPA method 8260. Prior to 2/10/2003, BTEX by EPA method 8021B from 10/29/99 to 2/10/03, and 8020 prior to 10/29/99.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12

Values for DO and pH were obtained through field measurements.

The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 2

Fuel Additives Analytical Data
Former ARCO Service Station #6002
6235 Seminary Ave., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
MW-3	2/10/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	08/30/2004	<100	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	0.73	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-4	2/10/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	8/14/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/30/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5	2/10/2003	<200	<100	100	<0.50	<0.50	<0.50	--	--	
	6/3/2003	<1,000	<200	160	<5.0	<5.0	<5.0	--	--	
	11/13/2003	<1,000	<200	90	<5.0	<5.0	<5.0	--	--	
	02/13/2004	<200	41	90	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/05/2004	<500	<100	130	<2.5	<2.5	<2.5	<2.5	<2.5	
	08/30/2004	<500	100	85	<2.5	<2.5	<2.5	<2.5	<2.5	
	11/08/2004	<200	43	69	<1.0	<1.0	<1.0	<1.0	<1.0	
	02/07/2005	<200	<40	15	<1.0	<1.0	<1.0	<1.0	<1.0	
	05/09/2005	<200	<40	19	<1.0	<1.0	<1.0	<1.0	<1.0	a
	08/11/2005	<500	<100	51	<2.5	<2.5	<2.5	<2.5	<2.5	
	12/02/2005	<500	<100	13	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-6	2/10/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	08/30/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7	2/10/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	8/14/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8	2/10/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	8/14/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/30/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
VW-1	2/10/2003	<40	<20	11	<0.50	<0.50	<0.50	--	--	
	6/3/2003	<100	<20	13	<0.50	<0.50	<0.50	--	--	
	8/14/2003	<100	<20	18	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2

Fuel Additives Analytical Data
 Former ARCO Service Station #6002
 6235 Seminary Ave., Oakland, CA

Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Footnotes/ Comments
VW-1	11/13/2003	<100	<20	13	<0.50	<0.50	<0.50	--	--	
	02/13/2004	<100	<20	8.0	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/05/2004	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/30/2004	<100	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50	
	11/08/2004	<100	<20	27	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/07/2005	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/09/2005	<100	<20	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
	12/02/2005	<100	<20	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	a
	VW-4	2/10/2003	<4,000	<2,000	2500	<0.50	<0.50	<0.50	--	--
6/3/2003		<2,000	4,100	440	<10	<10	<10	--	--	
8/14/2003		<1,000	3,200	170	<5.0	<5.0	<5.0	<5.0	<5.0	
11/13/2003		<1,000	3,300	130	<5.0	<5.0	<5.0	--	--	
02/13/2004		<500	1,300	210	<2.5	<2.5	<2.5	<2.5	<2.5	
05/05/2004		<200	1,500	66	<1.0	1.3	<1.0	<1.0	<1.0	
08/30/2004		<1,000	5,400	220	<5.0	5.4	<5.0	<5.0	<5.0	
11/08/2004		<500	2,700	140	<2.5	<2.5	<2.5	<2.5	<2.5	
02/07/2005		<100	1,000	47	<0.50	0.89	<0.50	<0.50	<0.50	
05/09/2005		<100	1,200	37	<0.50	0.92	<0.50	<0.50	<0.50	
08/11/2005		<100	2,000	15	<0.50	1.8	<0.50	<0.50	<0.50	b
12/02/2005	<200	2,400	28	<1.0	2.2	<1.0	<1.0	<1.0		

Table 2

Fuel Additives Analytical Data Former ARCO Service Station #6002 6235 Seminary Ave., Oakland, CA

SYMBOLS AND ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above the laboratory reporting limit.

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

FOOTNOTES:

a = Calibration verification for ethanol was within the method limits but outside the contract limits.

b = The initial analysis for TBA was within holding time but required dilution.

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

Table 3**Groundwater Gradient Data**
Former ARCO Service Station #6002
6235 Seminary Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/15/1995	West-Southwest	0.08
5/30/1995	West-Southwest	0.08
9/1/1995	West-Southwest	0.09
11/13/1995	West-Southwest	0.08
2/23/1996	West-Southwest	0.08
5/10/1996	West-Southwest	0.08
8/9/1996	Southwest	0.08
11/8/1996	Southwest	0.06
3/21/1997	West-Southwest	0.05
5/27/1997	West-Southwest	0.07
8/5/1997	West	0.08
10/29/1997	West-Southwest	0.04
2/25/1998	West-Southwest	0.05
5/12/1998	West	0.07
7/28/1998	West	0.07
10/27/1998	West-Southwest	0.06
2/8/1999	West-Southwest	0.07
6/1/1999	West-Northwest	0.07
8/25/1999	West-Southwest	0.07
10/29/1999	West	0.07
2/16/2000	Southwest	0.05
6/23/2000	West	0.04
8/17/2000	West	0.09
11/10/2000	West-Southwest	0.08
2/12/2001	West-Southwest	0.07
4/13/2001	West	0.09
7/18/2001	West	0.08
10/1/2001	West-Southwest	0.08
1/14/2002	West-Southwest	0.07
4/3/2002	West-Southwest	0.08
8/8/2002	West-Southwest	0.09
11/27/2002	West-Southwest	0.08
2/10/2003	Southwest	0.06
6/3/2003	West	0.07
8/14/2003	West-Southwest	0.07
11/13/2003	West-Southwest	0.07
2/13/2004	Southwest	0.05
5/4/2004	Southwest	0.06

Table 3

Groundwater Gradient Data
Former ARCO Service Station #6002
6235 Seminary Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
8/30/2004	Southwest	0.07
11/8/2004	Southwest	0.10
2/7/2005	Southwest	0.1
5/9/2005	Southwest	0.07
8/11/2005	West	0.07
12/2/2005	Southwest	0.10

Source: The data within this table collected prior to August 2002 was provided to URS by RM and their previous consultants. URS has not verified the accuracy of this information.

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 051202-WC-2 Date 12/2/05 Client URS@Arco 6002

Site 6235 Seminary Ave., Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC		
MW-3	4					8.15	24.45	TOC	G.O.	
MW-4	4					10.35	24.19	↓	G.O.	
MW-5	4					11.83	24.55		NPOS	
MW-6	2	Pressure				14.55	32.02		G.O.	
MW-7	2					13.12	13.30		G.O.	
MW-8	2					8.15	10.00		G.O.	
VW-1	4					7.32	14.03		Average	
VW-3	4					8.26	14.27		G.O.	
VW-4	4					9.59	14.96		Average	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 051202-WC-2	Station # 6002
Sampler: WC	Date: 12/02/05
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 24.55	Depth to Water: 11.83
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible Extraction Pump~~ Other: _____

Sampling Method: Bailer ~~Disposable Bailer~~ ~~Extraction Port~~ Other: _____

Top of Screen: 5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>no-purge</u>	Gals.	
1 Case Volume (Gals.)	Specified Volume	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1359	65.6	6.9	771	—	Clear

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1400 Sampling Date: 12/02/05

Sample I.D.: ~~#1~~ MW-5 Laboratory: Pace Sequoia Other: _____

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.91	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 051202-WC-2	Station # 6002
Sampler: We	Date: 12/02/05
Well I.D.: VW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 14.03	Depth to Water: 7.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVG</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric <u>Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable <u>Bailer</u> Extraction Port Other: _____
---	---

Top of Screen: 5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>4.4</u>	x	<u>3</u>	=	<u>13.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1415	66.9	6.8	553	5	gray
1419	67.9	6.7	531	9	clear
1420	68.1	6.6	586	14	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>14</u>
Sampling Time: <u>1425</u>	Sampling Date: <u>12/2/05</u>
Sample I.D.: <u>405 VW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: <u>GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol</u> Other: _____		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>1.85</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ew

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>051202-WC-2</u>	Station # <u>6002</u>
Sampler: <u>WC</u>	Date: <u>12/2/05</u>
Well I.D.: <u>VW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>14.96</u>	Depth to Water: <u>9.59</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YS)</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other:

Sampling Method: Bailer Disposable Bailer Extraction Port Other:

Top of Screen: If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>3.5</u>	x	<u>3</u>	=	<u>10.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>(µS)</u>)	Gals. Removed	Observations
1441	67.2	7.0	711	4	Clear
1442	67.8	7.0	739	8	↓
1443	68.1	6.9	738	11	↓

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Time: 1448 Sampling Date: 12/2/05

Sample I.D.: VW-4 Laboratory: Pace Sequoia (P) Other

Analyzed for: (GRG BTEX MYBE DRO Oxy's 1,2-DCA FDB Ethanol) Other:

D.O. (if req'd):	Pre-purge: <u> </u> mg/L	Post-purge: <u>0.75</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV	Post-purge: <u> </u> mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is PLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record BILL OF LADING was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

6002

Station #

6235 Seminary Ave, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

25 Gallons

added equip.
rinse water

1 gal

any other
adjustments

0

TOTAL GALS.
RECOVERED

26 gal

loaded onto
BTS vehicle #

22

BTS event #

time

date

051202-WC-2

1500

12/2/05

signature

[Handwritten Signature]

REC'D AT

time

date

Blaine Tech

1630

12/2/05

unloaded by

signature

[Handwritten Signature]

ATTACHMENT B
LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by RM have been reviewed and verified by that laboratory.



21 December, 2005

Scott Robinson
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #6002, Oakland, CA
Work Order: MOL0248

Enclosed are the results of analyses for samples received by the laboratory on 12/05/05 10:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6002, Oakland, CA
Project Number: G0C8K-0004
Project Manager: Scott Robinson

MOL0248
Reported:
12/21/05 15:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MOL0248-01	Water	12/02/05 14:00	12/05/05 10:45
VW-1	MOL0248-02	Water	12/02/05 14:25	12/05/05 10:45
VW-4	MOL0248-03	Water	12/02/05 14:48	12/05/05 10:45
TB	MOL0248-04	Water	12/02/05 00:00	12/05/05 10:45

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with intact custody seals.

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6002, Oakland, CA
Project Number: G0C8K-0004
Project Manager: Scott Robinson

MOL0248
Reported:
12/21/05 15:14

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MOL0248-01) Water Sampled: 12/02/05 14:00 Received: 12/05/05 10:45									
tert-Amyl methyl ether	ND	2.5	ug/l	5	5L15014	12/15/05	12/15/05	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	15	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	13	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	8.3	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	3900	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>74 %</i>	<i>60-135</i>		"	"	"	"	
VW-1 (MOL0248-02) Water Sampled: 12/02/05 14:25 Received: 12/05/05 10:45									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5L15042	12/15/05	12/16/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	9.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.57	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	130	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>72 %</i>	<i>60-135</i>		"	"	"	"	

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6002, Oakland, CA
Project Number: G0C8K-0004
Project Manager: Scott Robinson

MOL0248
Reported:
12/21/05 15:14

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
VW-4 (MOL0248-03) Water Sampled: 12/02/05 14:48 Received: 12/05/05 10:45										
tert-Amyl methyl ether	ND	1.0		ug/l	2	5L16004	12/16/05	12/16/05	EPA 8260B	
Benzene	ND	1.0		"	"	"	"	"	"	
tert-Butyl alcohol	2400	40		"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0		"	"	"	"	"	"	
Ethanol	ND	200		"	"	"	"	"	"	
Ethyl tert-butyl ether	2.2	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Methyl tert-butyl ether	28	1.0		"	"	"	"	"	"	
Toluene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	160	100		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %		60-135		"	"	"	"	

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

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 Project Number: G0C8K-0004
 Project Manager: Scott Robinson

 MOL0248
 Reported:
 12/21/05 15:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L15014 - EPA 5030B P/T / EPA 8260B
Blank (5L15014-BLK1)

Prepared & Analyzed: 12/15/05

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.91</i>		<i>"</i>	<i>5.00</i>		<i>78</i>	<i>60-135</i>			

Laboratory Control Sample (5L15014-BS1)

Prepared & Analyzed: 12/15/05

tert-Amyl methyl ether	15.4	0.50	ug/l	15.0		103	80-115			
Benzene	5.13	0.50	"	5.16		99	65-115			
tert-Butyl alcohol	153	5.0	"	143		107	75-150			
Di-isopropyl ether	16.1	0.50	"	15.1		107	75-125			
1,2-Dibromoethane (EDB)	17.5	0.50	"	14.9		117	85-120			
1,2-Dichloroethane	13.5	0.50	"	14.7		92	85-130			
Ethanol	170	100	"	142		120	70-135			
Ethyl tert-butyl ether	15.1	0.50	"	15.0		101	75-130			
Ethylbenzene	6.68	0.50	"	7.54		89	75-135			
Methyl tert-butyl ether	7.81	0.50	"	7.02		111	65-125			
Toluene	38.0	0.50	"	37.2		102	85-120			
Xylenes (total)	36.4	0.50	"	41.2		88	85-125			
Gasoline Range Organics (C4-C12)	432	50	"	440		98	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.81</i>		<i>"</i>	<i>5.00</i>		<i>76</i>	<i>60-135</i>			

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #6002, Oakland, CA
 Project Number: G0C8K-0004
 Project Manager: Scott Robinson

 MOL0248
 Reported:
 12/21/05 15:14

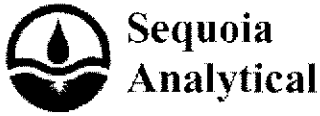
Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L15014 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5L15014-MS1)	Source: MOL0114-04RE1			Prepared & Analyzed: 12/15/05						
tert-Amyl methyl ether	1570	50	ug/l	1500	36	102	80-115			
Benzene	2250	50	"	516	1700	107	65-115			
tert-Butyl alcohol	16500	500	"	14300	ND	115	75-120			
Di-isopropyl ether	1710	50	"	1510	ND	113	75-125			
1,2-Dibromoethane (EDB)	1910	50	"	1490	ND	128	85-120			LM
1,2-Dichloroethane	1320	50	"	1470	23	88	85-130			
Ethanol	16300	10000	"	14200	2700	96	70-135			
Ethyl tert-butyl ether	1510	50	"	1500	ND	101	75-130			
Ethylbenzene	4740	50	"	754	4000	98	75-135			
Methyl tert-butyl ether	1860	50	"	702	1100	108	65-125			
Toluene	20600	50	"	3720	20000	16	85-120			BB, LN, EB
Xylenes (total)	21900	50	"	4120	20000	46	85-125			BB, LN, EB
Gasoline Range Organics (C4-C12)	158000	5000	"	44000	110000	109	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.05</i>		<i>"</i>	<i>5.00</i>		<i>81</i>	<i>60-135</i>			

Matrix Spike Dup (5L15014-MSD1)	Source: MOL0114-04RE1			Prepared & Analyzed: 12/15/05						
tert-Amyl methyl ether	1610	50	ug/l	1500	36	105	80-115	3	15	
Benzene	2370	50	"	516	1700	130	65-115	5	20	LM
tert-Butyl alcohol	17300	500	"	14300	ND	121	75-120	5	25	LM
Di-isopropyl ether	1720	50	"	1510	ND	114	75-125	0.6	15	
1,2-Dibromoethane (EDB)	1930	50	"	1490	ND	130	85-120	1	15	LM
1,2-Dichloroethane	1240	50	"	1470	23	83	85-130	6	20	LN
Ethanol	16400	10000	"	14200	2700	96	70-135	0.6	35	
Ethyl tert-butyl ether	1540	50	"	1500	ND	103	75-130	2	25	
Ethylbenzene	4540	50	"	754	4000	72	75-135	4	15	BB, LN
Methyl tert-butyl ether	1730	50	"	702	1100	90	65-125	7	20	
Toluene	19000	50	"	3720	20000	0	85-120	8	20	BB, LN, EB
Xylenes (total)	19800	50	"	4120	20000	0	85-125	10	20	BB, LN, EB
Gasoline Range Organics (C4-C12)	142000	5000	"	44000	110000	73	60-140	11	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.68</i>		<i>"</i>	<i>5.00</i>		<i>74</i>	<i>60-135</i>			



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #6002, Oakland, CA Project Number: G0C8K-0004 Project Manager: Scott Robinson	MOL0248 Reported: 12/21/05 15:14
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

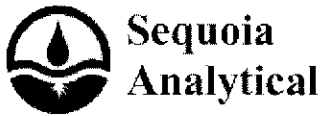
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L15042 - EPA 5030B P/T / EPA 8260B

Blank (5L15042-BLK1)		Prepared: 12/15/05 Analyzed: 12/16/05								
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							IC
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	3.48		"	5.00		70	60-135			

Blank (5L15042-BLK2)		Prepared & Analyzed: 12/16/05								
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	3.73		"	5.00		75	60-135			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #6002, Oakland, CA Project Number: G0C8K-0004 Project Manager: Scott Robinson	MOL0248 Reported: 12/21/05 15:14
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L15042 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (5L15042-BS1)

Prepared & Analyzed: 12/15/05

tert-Amyl methyl ether	15.7	0.50	ug/l	15.0		105	80-115			
Benzene	5.14	0.50	"	5.16		100	65-115			
tert-Butyl alcohol	164	20	"	143		115	75-150			
Di-isopropyl ether	16.9	0.50	"	15.1		112	75-125			
1,2-Dibromoethane (EDB)	17.9	0.50	"	14.9		120	85-120			
1,2-Dichloroethane	12.7	0.50	"	14.7		86	85-130			
Ethanol	167	100	"	142		118	70-135			IC
Ethyl tert-butyl ether	15.4	0.50	"	15.0		103	75-130			
Ethylbenzene	6.45	0.50	"	7.54		86	75-135			
Methyl tert-butyl ether	7.20	0.50	"	7.02		103	65-125			
Toluene	39.4	0.50	"	37.2		106	85-120			
Xylenes (total)	35.6	0.50	"	41.2		86	85-125			
Gasoline Range Organics (C4-C12)	396	50	"	440		90	60-140			
Surrogate: 1,2-Dichloroethane-d4	3.64		"	5.00		73	60-135			

Laboratory Control Sample (5L15042-BS2)

Prepared & Analyzed: 12/16/05

tert-Amyl methyl ether	15.5	0.50	ug/l	15.0		103	80-115			
Benzene	5.01	0.50	"	5.16		97	65-115			
tert-Butyl alcohol	153	20	"	143		107	75-150			
Di-isopropyl ether	16.3	0.50	"	15.1		108	75-125			
1,2-Dibromoethane (EDB)	18.8	0.50	"	14.9		126	85-120			HL
1,2-Dichloroethane	13.6	0.50	"	14.7		93	85-130			
Ethanol	141	100	"	142		99	70-135			
Ethyl tert-butyl ether	15.9	0.50	"	15.0		106	75-130			
Ethylbenzene	6.90	0.50	"	7.54		92	75-135			
Methyl tert-butyl ether	7.93	0.50	"	7.02		113	65-125			
Toluene	39.5	0.50	"	37.2		106	85-120			
Xylenes (total)	38.3	0.50	"	41.2		93	85-125			
Gasoline Range Organics (C4-C12)	424	50	"	440		96	60-140			
Surrogate: 1,2-Dichloroethane-d4	4.00		"	5.00		80	60-135			

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #6002, Oakland, CA
 Project Number: G0C8K-0004
 Project Manager: Scott Robinson

 MOL0248
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 12/21/05 15:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L15042 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5L15042-MS1)	Source: MOL0354-04			Prepared: 12/15/05		Analyzed: 12/16/05				
tert-Amyl methyl ether	14.8	0.50	ug/l	15.0	ND	99	80-115			
Benzene	5.15	0.50	"	5.16	ND	100	65-115			
tert-Butyl alcohol	159	20	"	143	ND	111	75-120			
Di-isopropyl ether	16.2	0.50	"	15.1	ND	107	75-125			
1,2-Dibromoethane (EDB)	18.3	0.50	"	14.9	ND	123	85-120			LM
1,2-Dichloroethane	12.2	0.50	"	14.7	ND	83	85-130			LN
Ethanol	85.8	100	"	142	27	41	70-135			LN, IC
Ethyl tert-butyl ether	14.8	0.50	"	15.0	ND	99	75-130			
Ethylbenzene	6.88	0.50	"	7.54	ND	91	75-135			
Methyl tert-butyl ether	6.96	0.50	"	7.02	ND	99	65-125			
Toluene	40.3	0.50	"	37.2	ND	108	85-120			
Xylenes (total)	38.2	0.50	"	41.2	ND	93	85-125			
Gasoline Range Organics (C4-C12)	380	50	"	440	14	83	60-140			
Surrogate: 1,2-Dichloroethane-d4	3.57		"	5.00		71	60-135			

Matrix Spike Dup (5L15042-MSD1)	Source: MOL0354-04			Prepared: 12/15/05		Analyzed: 12/16/05				
tert-Amyl methyl ether	15.0	0.50	ug/l	15.0	ND	100	80-115	1	15	
Benzene	5.38	0.50	"	5.16	ND	104	65-115	4	20	
tert-Butyl alcohol	158	20	"	143	ND	110	75-120	0.6	25	
Di-isopropyl ether	16.1	0.50	"	15.1	ND	107	75-125	0.6	15	
1,2-Dibromoethane (EDB)	17.4	0.50	"	14.9	ND	117	85-120	5	15	
1,2-Dichloroethane	11.6	0.50	"	14.7	ND	79	85-130	5	20	LN
Ethanol	170	100	"	142	27	101	70-135	66	35	BA, IC
Ethyl tert-butyl ether	14.7	0.50	"	15.0	ND	98	75-130	0.7	25	
Ethylbenzene	6.97	0.50	"	7.54	ND	92	75-135	1	15	
Methyl tert-butyl ether	6.70	0.50	"	7.02	ND	95	65-125	4	20	
Toluene	40.4	0.50	"	37.2	ND	109	85-120	0.2	20	
Xylenes (total)	39.4	0.50	"	41.2	ND	96	85-125	3	20	
Gasoline Range Organics (C4-C12)	376	50	"	440	14	82	60-140	1	25	
Surrogate: 1,2-Dichloroethane-d4	3.53		"	5.00		71	60-135			



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #6002, Oakland, CA Project Number: G0C8K-0004 Project Manager: Scott Robinson	MOL0248 Reported: 12/21/05 15:14
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5L16004 - EPA 5030B P/T / EPA 8260B

Blank (5L16004-BLK1)

Prepared & Analyzed: 12/16/05

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	5.0	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4 3.73 " 5.00 75 60-135

Laboratory Control Sample (5L16004-BS1)

Prepared & Analyzed: 12/16/05

tert-Amyl methyl ether	15.2	0.50	ug/l	15.0	101	80-115
Benzene	5.30	0.50	"	5.16	103	65-115
tert-Butyl alcohol	162	5.0	"	143	113	75-150
Di-isopropyl ether	16.2	0.50	"	15.1	107	75-125
1,2-Dibromoethane (EDB)	17.8	0.50	"	14.9	119	85-120
1,2-Dichloroethane	13.0	0.50	"	14.7	88	85-130
Ethanol	153	100	"	142	108	70-135
Ethyl tert-butyl ether	15.0	0.50	"	15.0	100	75-130
Ethylbenzene	6.60	0.50	"	7.54	88	75-135
Methyl tert-butyl ether	6.86	0.50	"	7.02	98	65-125
Toluene	39.3	0.50	"	37.2	106	85-120
Xylenes (total)	36.5	0.50	"	41.2	89	85-125
Gasoline Range Organics (C4-C12)	395	50	"	440	90	60-140

Surrogate: 1,2-Dichloroethane-d4 4.00 " 5.00 80 60-135

URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #6002, Oakland, CA
 Project Number: G0C8K-0004
 Project Manager: Scott Robinson

 MOL0248
 Reported:
 12/21/05 15:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RBC	%RBC Limits	RPD	RPD Limit	Notes
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Batch 5L16004 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5L16004-MS1)	Source: MOL0525-02			Prepared & Analyzed: 12/16/05						
tert-Amyl methyl ether	18.8	0.50	ug/l	18.8	ND	100	80-115			
Benzene	6.12	0.50	"	6.45	ND	95	65-115			
tert-Butyl alcohol	256	5.0	"	179	73	102	75-120			
Di-isopropyl ether	19.6	0.50	"	18.9	ND	104	75-125			
1,2-Dibromoethane (EDB)	22.2	0.50	"	18.6	ND	119	85-120			
1,2-Dichloroethane	17.5	0.50	"	18.4	ND	95	85-130			
Ethanol	180	100	"	177	27	86	70-135			
Ethyl tert-butyl ether	18.1	0.50	"	18.8	ND	96	75-130			
Ethylbenzene	8.10	0.50	"	9.42	ND	86	75-135			
Methyl tert-butyl ether	10.6	0.50	"	8.78	ND	121	65-125			
Toluene	47.2	0.50	"	46.5	ND	102	85-120			
Xylenes (total)	46.1	0.50	"	51.5	ND	90	85-125			
Gasoline Range Organics (C4-C12)	566	50	"	550	23	99	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.48</i>		<i>"</i>	<i>5.00</i>		<i>90</i>	<i>60-135</i>			

Matrix Spike Dup (5L16004-MSD1)	Source: MOL0525-02			Prepared & Analyzed: 12/16/05						
tert-Amyl methyl ether	17.9	0.50	ug/l	18.8	ND	95	80-115	5	15	
Benzene	6.42	0.50	"	6.45	ND	100	65-115	5	20	
tert-Butyl alcohol	249	5.0	"	179	73	98	75-120	3	25	
Di-isopropyl ether	19.8	0.50	"	18.9	ND	105	75-125	1	15	
1,2-Dibromoethane (EDB)	20.4	0.50	"	18.6	ND	110	85-120	8	15	
1,2-Dichloroethane	15.4	0.50	"	18.4	ND	84	85-130	13	20	LN
Ethanol	197	100	"	177	27	96	70-135	9	35	
Ethyl tert-butyl ether	18.5	0.50	"	18.8	ND	98	75-130	2	25	
Ethylbenzene	8.25	0.50	"	9.42	ND	88	75-135	2	15	
Methyl tert-butyl ether	9.27	0.50	"	8.78	ND	106	65-125	13	20	
Toluene	45.4	0.50	"	46.5	ND	98	85-120	4	20	
Xylenes (total)	47.2	0.50	"	51.5	ND	92	85-125	2	20	
Gasoline Range Organics (C4-C12)	513	50	"	550	23	89	60-140	10	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.98</i>		<i>"</i>	<i>5.00</i>		<i>80</i>	<i>60-135</i>			



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #6002, Oakland, CA
Project Number: G0C8K-0004
Project Manager: Scott Robinson

MOL0248
Reported:
12/21/05 15:14

Notes and Definitions

LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).
IC Calib. verif. is within method limits but outside contract limits
HL Analyte recovery above established limit
EB Value is estimated
BB, LN Sample > 4x spike concentration.
BA Relative percent difference out of control
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name: Analytical for QMR sampling
 BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 6002 > HistoricalBL
 State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr
 Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: 1230 Temp: 58° F
 Off-site Time: 1515 Temp: 57° F
 Sky Conditions: Partly cloudy
 Meteorological Events: —
 Wind Speed: 5-10 mph Direction: —

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>6002</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>6235 Seminary Ave., Oakland, CA 94605</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race / SophiaMin</u>	Site Lat/Long: <u>37.780021 / -122.173</u>	Consultant/Contractor Project No.: <u>38487035</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	California Global ID No.: <u>T0600100105</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Enfos Project No.: <u>G0C8K-0004</u>	Tele/Fax: <u>510.874.3280 / 510.874.3268</u>
Address: <u>P.O. Box 6549</u> <u>Moraga, CA 94570</u>	Provision or RCOP: <u>Provision</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>925.299.8891 / 925.299.8872</u>	Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u>	E-mail EDD To: <u>Donna.Cosper@urscorp.com</u>
	Sub Phase/Task: <u>03 - Analytical</u>	Invoice to: <u>Atlantic Richfield Company</u>
	Cost Element: <u>05 - Subcontracted Costs</u>	

Lab Bottle Order No: <u>6002</u>				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRG / BTEX (8260)	MTBE, TAME, ETBE	DPE, TBA (8260)	EDB, 1,2-DCA (8260)	Ethanol (8260)	
1	<u>MW-5</u>	<u>1400</u>	<u>12/16/05</u>	<u>X</u>			<u>01</u>	<u>3</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
2	<u>VW-1</u>	<u>1425</u>	<u>↓</u>	<u>↓</u>			<u>02</u>	<u>↓</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
3	<u>VW-4</u>	<u>1448</u>	<u>↓</u>	<u>↓</u>			<u>03</u>	<u>↓</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			
4	<u>TB</u>	<u>—</u>	<u>↓</u>	<u>↓</u>			<u>04</u>	<u>2</u>											<u>on hold</u>
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name:	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<u>Will</u>	<u>Will Cross</u>	<u>12/16/05</u>	<u>1614</u>	<u>(Sample collection)</u>	<u>12/16/05</u>	<u>1614</u>
<u>Blaine Tech</u>	<u>Blaine Tech</u>	<u>12/16/05</u>	<u>0950</u>	<u>Blaine Tech</u>	<u>12/16/05</u>	<u>0950</u>
<u>Shipment Date:</u>	<u>Blaine Tech</u>	<u>12/19</u>	<u>10:15</u>	<u>Blaine Tech</u>	<u>12/19</u>	<u>10:15</u>

Special Instructions:

Custody Seals In Place Yes ✓ No ○ Temp Blank Yes ○ No ✓ Cooler Temperature on Receipt 20°F Trip Blank Yes ○ No ✓

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: UPS
 REC. BY (PRINT): L.P.
 WORKORDER: MDL0248

DATE REC'D AT LAB: 12-5-05
 TIME REC'D AT LAB: 10:45
 DATE LOGGED IN: 12/4/05

For Regulatory Purposes?
 DRINKING WATER YES NO
 WASTE WATER YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID.	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) <input checked="" type="radio"/> Present / <input type="radio"/> Absent <input type="radio"/> Intact / <input type="radio"/> Broken*									<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;"> 12-5-05 L.P. </div>
2. Chain-of-Custody <input checked="" type="radio"/> Present / <input type="radio"/> Absent*									
3. Traffic Reports or Packing List: <input type="radio"/> Present / <input checked="" type="radio"/> Absent									
4. Airbill: <input type="radio"/> Airbill / <input type="radio"/> Sticker <input type="radio"/> Present / <input checked="" type="radio"/> Absent									
5. Airbill #:									
6. Sample Labels: <input checked="" type="radio"/> Present / <input type="radio"/> Absent									
7. Sample IDs: <input checked="" type="radio"/> Listed / <input type="radio"/> Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="radio"/> Intact / <input type="radio"/> Broken* / <input type="radio"/> Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
10. Sample received within hold time? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
12. Proper preservatives used? <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="radio"/> Yes / <input type="radio"/> No*									
14. Read Temp: <u>2.0°C</u> Corrected Temp: <u>2.0°C</u> Is corrected temp $\pm 2^\circ\text{C}$? <input checked="" type="radio"/> Yes / <input type="radio"/> No**									

(Acceptance range for samples requiring thermal pres.)

**Exception (if any): METALS / DFF ON ICE
 or Problem COC

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

ATTACHMENT C

**ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL
CONFIRMATIONS**

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	1/4/2006 11:45:00 AM

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Submittal Title: 4Q 2005 BP/ARCO 6002
GOWELL

Submittal Date/Time: 1/4/2006 11:45:34 AM

**Confirmation
Number:** 9871230900

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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	1/4/2006 11:46:31 AM
<u>GLOBAL ID:</u>	T0600100105
<u>FILE UPLOADED:</u>	ARCO#6002-EDF-MOL0248.zip

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ARCO # 06002 6235 SEMINARY AVE OAKLAND, CA 94605	<u>Regional Board - Case #: 01-0113</u> SAN FRANCISCO BAY RWQCB (REGION 2) - (CC) <u>Local Agency (lead agency) - Case #: 3942</u> ALAMEDA COUNTY LOP - (AG)
---	---

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	3
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Confirmation Number: 8439791202
Date/Time of Submittal: 1/4/2006 11:47:40 AM
Facility Global ID: T0600100105
Facility Name: ARCO # 06002
Submittal Title: 4Q 2005 BP/ARCO 6002 EDF
Submittal Type: GW Monitoring Report

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ARCO # 06002 6235 SEMINARY AVE OAKLAND, CA 94605	Regional Board - Case #: 01-0113 SAN FRANCISCO BAY RWQCB (REGION 2) - (CC) Local Agency (lead agency) - Case #: 3942 ALAMEDA COUNTY LOP - (AG)
---	---

CONF #	TITLE	QUARTER
8439791202	4Q 2005 BP/ARCO 6002 EDF	Q4 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	1/4/2006	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	3
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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