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Atlantic Richfield Company
(a BP affiliated company)

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Alameda County
DEC 20 2004
Environmental Health

December 10, 2004

RE: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #6002
6235 Seminary Avenue
Cupertino, California
URS Project #38486727

Oakland

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



December 10, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

**Re: Fourth Quarter 2004 Monitoring Report
Former ARCO Service Station #6002
6235 Seminary Avenue
Oakland, California
URS Project #38486727**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Groundwater Monitoring Report* for the Former ARCO Service Station #6002, located at 6235 Seminary Avenue, Oakland, California.

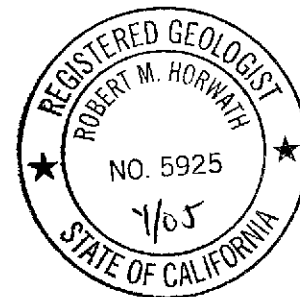
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Robert Horwath, R.G.
Portfolio Manager



Enclosure: Fourth Quarter 2004 Groundwater Monitoring Report

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

R E P O R T

**FOURTH QUARTER 2004
GROUNDWATER MONITORING
REPORT**

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

Prepared for
RM

December 10, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486727

Date: December 10, 2004
Quarter: 4Q 04

RM QUARTERLY 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
Consultant Project No.: 38486727
Primary Agency Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Fourth – 2004):

1. Prepared and submitted Third Quarter 2004 Groundwater Monitoring Report
2. Performed fourth quarter 2004 groundwater monitoring event on November 8, 2004.
3. Prepared and submitted Fourth Quarter 2004 Groundwater Monitoring Report

WORK PROPOSED FOR NEXT QUARTER (First – 2005):

1. Perform first quarter 2005 groundwater monitoring event.
2. Prepare and submit First Quarter 2005 Groundwater Monitoring Report.

SITE SUMMARY:

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Annual (3rd quarter): MW-3, MW-4, MW-6, MW-7, and MW-8
Quarterly: MW-5, VW-1, and VW-4
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Bulk Soil Removed to Date : Approximately 370 cubic yards of TPH impacted soil
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 7.22 (VM-1) to 15.57 (MW-6) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.10 feet per foot

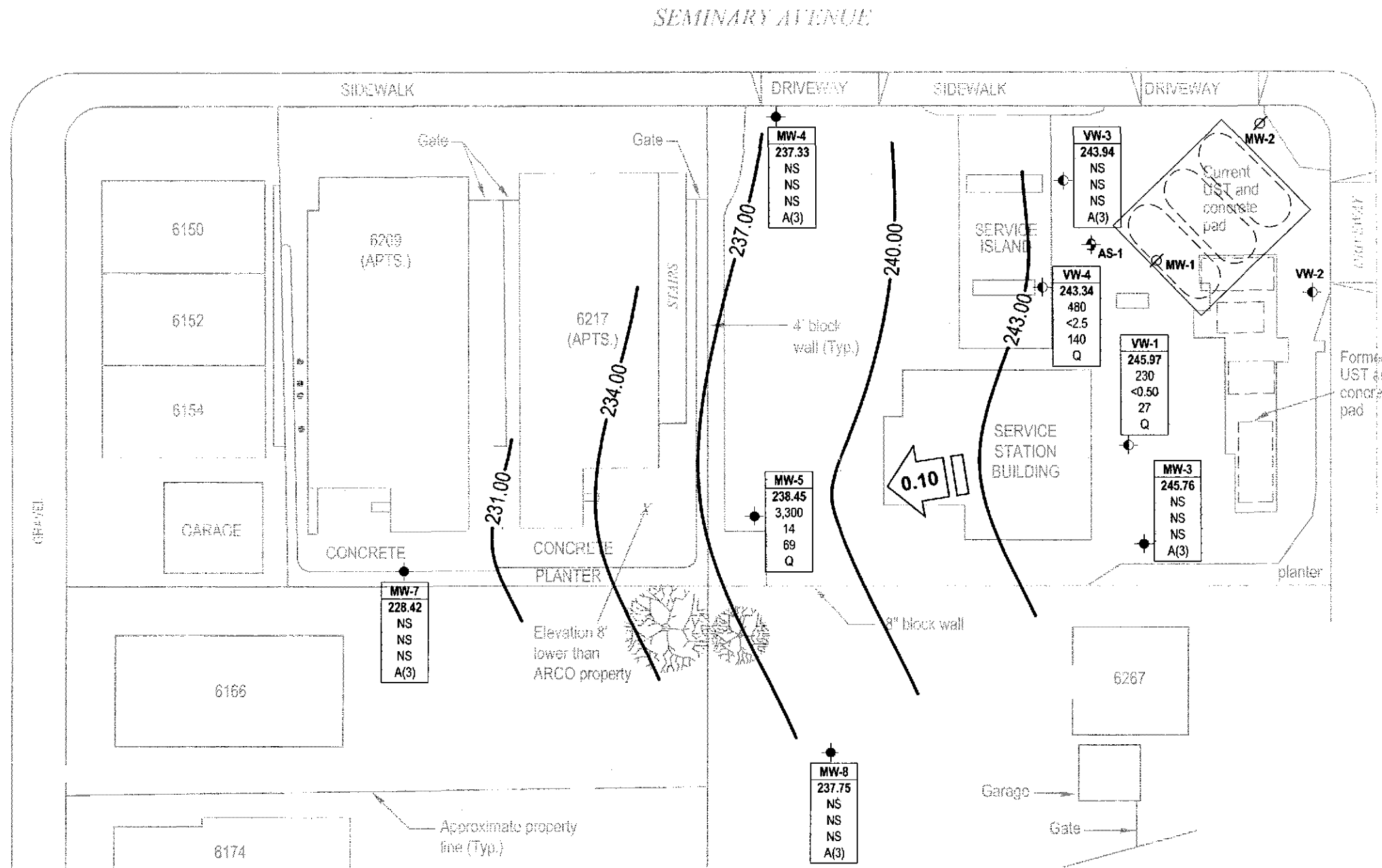
DISCUSSION:

Gasoline range organics (GRO) were detected at or above laboratory reporting limits all three wells sampled this quarter at a concentrations ranging from 230 micrograms per liter ($\mu\text{g/L}$) (VW-1) to 3,300 $\mu\text{g/L}$ (MW-5). Benzene was detected at or above the laboratory reporting limit in one well at a concentration of 14 $\mu\text{g/L}$ (MW-5). Ethylbenzene was detected at or above the laboratory reporting limit in one well at a concentration of 17 $\mu\text{g/L}$ (MW-5). Toluene was detected at or above the laboratory reporting limit in one well at a concentration of 1.9 $\mu\text{g/L}$ (MW-5). Total xylenes were detected at or above the laboratory reporting limit in two wells at concentrations of

0.75 µg/L (VW-1) and 6.1 µg/L (MW-5). Methyl tert-butyl ether (MTBE) was detected at or above laboratory reporting limits in all wells at concentrations ranging from 27 µg/L (VW-1) to 140 µg/L (VW-4). Tert-butyl alcohol (TBA) was detected at or above the laboratory reporting limit in two wells at concentrations of 43 µg/L (MW-5) and 2,700 µg/L (VW-4). No other fuel additives were detected at or above the laboratory reporting limit in any wells sampled this quarter.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 8, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Flow Direction and Gradient
- 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

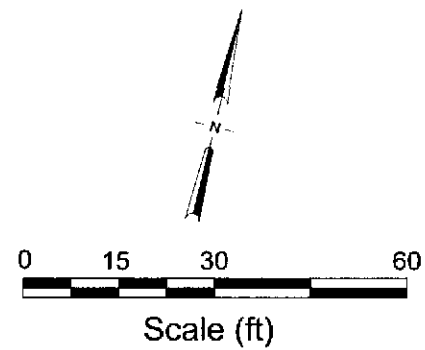
Well	Well designation
ELEV	Groundwater elevation (ft above MSL)
GRO	Concentration of GRO, Benzene and MTBE in groundwater (µg/L)
Benzene	
MTBE	
A/Q	Sampling frequency

- A(3) Sampled annually during 3rd quarter
- Q Sampled quarterly
- NS Not sampled
- < Not detected at or above laboratory reporting limits
- Not used in contouring

— 231.00 — Groundwater elevation contour (ft/MSL)

← 0.10 → Approximate groundwater flow direction and gradient (ft/ft)

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



Dec 10, 2004 - 3:44pm X:\r_envl_waste\B\GEM\Sites\Scott_Robinson\Prd\Suppl\6002\Monitoring\Qr_4_2004\6002-4Q04-GW.dwg

URS	Project No. 38486727	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE 1
	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 (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	1.67
	10/29/1999	--		248.35	5.00	24.50	8.52	--	239.83	--	--	--	--	--	--	6.9	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	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 (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	2.1
	8/17/2000	--		248.35	5.00	24.50	8.65	--	239.70	--	--	--	--	--	--	1.1	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	<0.500	<0.500	<0.500	<0.500	<2.50	0.81	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	--	--	--	--	--	--	--	--
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	--	--
	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	--	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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	4
	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	1.29
	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	1.5
	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	2.38
	6/23/2000	NP		242.91	4.50	24.50	12.31	--	230.60	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	2.8	2.8
	8/17/2000	--	f	242.91	4.50	24.50	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	8/17/2000	NP		242.91	4.50	24.50	11.92	--	230.99	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	2.38	2.38
	11/10/2000	NP		242.91	4.50	24.50	10.80	--	232.11	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.55	1.55
	2/12/2001	NP		242.91	4.50	24.50	11.65	--	231.26	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.12	1.12
	4/13/2001	--	f	242.91	4.50	24.50	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	4/13/2001	NP		242.91	4.50	24.50	8.17	--	234.74	<50.0	<0.500	<0.500	<0.500	<0.500	<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	d	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	--	--	--	--	--	--	--	--
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	--	--	--

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

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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-5	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	1
	8/25/1999	NP		244.82	5.00	24.50	12.99	--	231.83	9,200	26	14	420	270	1,100	0.37	0.37
	10/29/1999	NP		244.82	5.00	24.50	13.10	--	231.72	11,000	19	9.8	260	150	590	1.27	1.27
	2/16/2000	NP		244.82	5.00	24.50	8.21	--	236.61	12,000	8.1	10	340	160	130	1.42	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	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	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	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	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	--	--
	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	d	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

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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
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	0.77
	10/29/1999	--		252.2	17.00	31.50	9.03	--	243.17	--	--	--	--	--	--	3.42	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	2.42
	6/23/2000	--		252.2	17.00	31.50	6.69	--	245.51	--	--	--	--	--	--	2.3	2.3
	8/17/2000	--		252.2	17.00	31.50	6.95	--	245.25	--	--	--	--	--	--	2.51	2.51
	11/10/2000	--		252.2	17.00	31.50	11.79	--	240.41	--	--	--	--	--	--	--	--
	2/12/2001	--	f	252.2	17.00	31.50	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	2/12/2001	P		252.2	17.00	31.50	7.35	--	244.85	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.66	1.66
	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	--	--	--	--	--	--	--	--

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

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--
	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	1
	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	0.41
	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	1.29
	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	2.1
	6/23/2000	NP		235.95	8.50	13.50	10.68	--	225.27	<50.0	<0.500	<0.500	<0.500	<0.500	14.4	1.6	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	1.59
	11/10/2000	NP		235.95	8.50	13.50	9.62	--	226.33	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.09	1.09
	2/12/2001	NP		235.95	8.50	13.50	12.10	--	223.85	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.84	0.84
	4/13/2001	P		235.95	8.50	13.50	7.95	--	228.00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	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	--	--

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

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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	d	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	NP		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	NP		241.64	8.50	13.50	13.27	--	228.37	--	--	--	--	--	--	--	--
	11/08/2004	--		241.64	8.50	13.50	13.22	--	228.42	--	--	--	--	--	--	--	--
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	--	--
	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	<0.500	<0.500	<0.500	<0.500	<2.50	1.9	1.9
	8/17/2000	NP		240.37	5.50	14.00	6.40	--	233.97	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	2.56	2.56
	11/10/2000	--	f	240.37	5.50	14.00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	11/10/2000	NP		240.37	5.50	14.00	6.25	--	234.12	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.93	1.93
	2/12/2001	NP		240.37	5.50	14.00	8.11	--	232.26	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.65	1.65
	4/13/2001	P		240.37	5.50	14.00	5.19	--	235.18	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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	d	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	--	--	--	--	--	--	--	--
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	1
	8/25/1999	NP		--	6.00	14.00	7.66	--	--	130	<0.5	5.6	<0.5	<0.5	40	0.39	0.39
	10/29/1999	NP		--	6.00	14.00	7.59	--	--	200	1	<0.5	0.6	1.6	36	0.89	0.89
	2/16/2000	NP		--	6.00	14.00	7.03	--	--	210	<0.5	0.9	2.2	1.9	11	1.41	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	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	0.63

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	11/10/2000	NP		--	6.00	14.00	6.83	--	--	157	0.955	<0.500	0.973	<0.500	32.5	1.03	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	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	d	--	6.00	14.00	7.38	--	--	52	<0.50	<0.50	<0.50	<0.50	11	1.7	6.5
	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	
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	--	--	--	--	--	--	--	--
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	--	--

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

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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	--	--	--	--	--	--	--	--	--	--
	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	2
	8/25/1999	NP		--	5.50	14.50	9.78	--	--	1,300	4.4	4.9	1.7	2.9	4,600	0.36	0.36
	10/29/1999	NP		--	5.50	14.50	9.93	--	--	1,400	<0.5	1.8	1.6	3	4,200	1.18	1.18
	2/16/2000	NP		--	5.50	14.50	7.45	--	--	1,800	<0.5	2.9	15	10	3,400	1.01	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	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	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	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	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	d	--	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

Table 1

Groundwater Elevation and Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

Well No.	Date	P/ NP	Notes	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	Product Thickness (feet)	GWE (feet)	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	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

Table 1

Groundwater Elevation and Analytical Data

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

ABBREVIATIONS:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
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 feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not Purged
P = Purge
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/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 is dry.
h = Insufficient water to sample.
i = Well is not part of the sampling program and therefore was not sampled.

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 (Benzene, toluene, ethylbenzene, xylenes) 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. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg 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 dissolved oxygen (DO) and pH were obtained through field measurements.

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.

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	--	--	
	6/3/2003	--	--	--	--	--	--	--	--	
	8/14/2003	--	--	--	--	--	--	--	--	
	08/30/2004	<100	<20	0.72	<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	
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	--	--	
	8/14/2003	--	--	--	--	--	--	--	--	
	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	
MW-6	2/10/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	6/3/2003	--	--	--	--	--	--	--	--	
	8/14/2003	--	--	--	--	--	--	--	--	
	08/30/2004	<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	
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	
	11/13/2003	<100	<20	13	<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	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	
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	

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

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 # 041108-wc1

Date 11/08/04

Client 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					8.12	24.40	↓
MW-4	4					11.29	24.15	
MW-5	4					12.10	24.53	
MW-6	2					15.57	32.05	
MW-7	2					13.22	13.31	
MW-8	2					8.34	14.02	
VM-1	4					7.22	13.98	
VM-2	4							
VM-3	4					8.32	14.26	
VM-4	4					9.35	14.94	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>041108-wc1</u>	Station # <u>6002</u>
Sampler: <u>wc</u>	Date: <u>11/08/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>24.15</u>	Depth to Water: <u>12.10</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVE</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.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume	Gals.
----------------------------------	---	------------------------------	---	------------------------------	-------

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>1021</u>	<u>66.0</u>	<u>6.0</u>	<u>675</u>	<u>—</u>	<u>clear/odor</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 1023 Sampling Date: 11/08/04

Sample I.D.: MW-5 Laboratory: Pace Sequoia Other

Analyzed for: GRO BTEX MTBE DRO Other: Oxy's, 1,2 DCA&EAB, Eth M1 by 8260

D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	<u>Post-purge</u> :	<u>1.05</u> mg/L
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge:	<u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041108-WC1	Station # 6002
Sampler: WC	Date: 11/08/04
Well I.D.: VW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 13.98	Depth to Water: 13.98 ^{WC} 7.22
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: <u>Bailer</u> Disposable Bailer Positive Air Displacement <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> 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>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 <u>µS</u>)	Gals. Removed	Observations
0951	61.2	6.2	1285	5	clear/odor
0952	66.4	5.3	1067	9	" / "
0953	66.9	5.1	1016	14	" / "

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>14</u>
Sampling Time: <u>0957</u>	Sampling Date: <u>11/08/04</u>
Sample I.D.: <u>VW-1</u>	Laboratory: Pace <u>Scotopia</u> Other _____
Analyzed for: <u>GRO</u> <u>BTEX</u> MTBE DRO	Other: <u>Oxy 1, 2, DCA, DEB, FAH by 8260</u>
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>0.65</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 0411048-WC1	Station # 6002
Sampler: WC	Date: 11/08/04
Well I.D.: UW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 14.44	Depth to Water: 9.35
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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

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.

3.6	x	3	=	10.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1007	66.8	5.4	954	4	clear / odor
1008	68.7	6.0	765	8	" "
1009	68.8	6.0	751	12	cloudy / odor

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Time: 1013 Sampling Date: 11/08/04

Sample I.D.: UW-4 Laboratory: Pace Sequoia Other _____

Analyzed for: GRO BTEX MTBE DRO: Other: Oxys, 1,2 DCA, EDB, Ethanol, 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
			<u>1.1</u>	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

Table 2

Fuel Additives Analytical Data

Former ARCO Service Station #6002

6235 Seminary Ave., Oakland, CA

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

ug/L = Micrograms per Liter

NOTES:

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, and TAME) analyzed using EPA Method 8260B.

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.

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 BLAINE 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:

26 gal.

added equip. 5 gal
rinse water

any other adjustments

TOTAL GALS. RECOVERED 31 gal

loaded onto BTS vehicle # 23

BTS event # 041108-wc

time 1100 date 11/08/04

signature WJL Crow

REC'D AT Blaine Tech

time 1630 date 11/08/04

unloaded by signature WJL Crow

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.



24 November, 2004

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

RE: ARCO #6002, Oakland, CA
Work Order: MNK0317

Enclosed are the results of analyses for samples received by the laboratory on 11/09/04 10:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Race".

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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

Project: ARCO #6002, Oakland, CA
Project Number: INTRIM-50675
Project Manager: Scott Robinson

MNK0317
Reported:
11/24/04 10:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MNK0317-01	Water	11/08/04 10:23	11/09/04 10:05
VW-1	MNK0317-02	Water	11/08/04 09:57	11/09/04 10:05
VW-4	MNK0317-03	Water	11/08/04 10:13	11/09/04 10:05
TB-6002-11804	MNK0317-04	Water	11/08/04 00:00	11/09/04 10:05

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: INTRIM-50675
Project Manager: Scott Robinson

MNK0317
Reported:
11/24/04 10:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MNK0317-01) Water Sampled: 11/08/04 10:23 Received: 11/09/04 10:05									
tert-Amyl methyl ether	ND	1.0	ug/l	2	4K11008	11/11/04	11/12/04	EPA 8260B	
Benzene	14	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	43	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	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	17	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	69	1.0	"	"	"	"	"	"	
Toluene	1.9	1.0	"	"	"	"	"	"	
Xylenes (total)	6.1	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	3300	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83 %	78-129	"	"	"	"	"	
VW-1 (MNK0317-02) Water Sampled: 11/08/04 09:57 Received: 11/09/04 10:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4K19002	11/19/04	11/19/04	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	27	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.75	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	230	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	78-129	"	"	"	"	"	

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

Project: ARCO #6002, Oakland, CA
Project Number: INTRIM-50675
Project Manager: Scott Robinson

MNK0317
Reported:
11/24/04 10:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VW-4 (MNK0317-03) Water Sampled: 11/08/04 10:13 Received: 11/09/04 10:05									
tert-Amyl methyl ether	ND	2.5	ug/l	5	4K11008	11/11/04	11/12/04	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	2700	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	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	140	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	480	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		82 %		78-129	"	"	"	"	

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

Project: ARCO #6002, Oakland, CA
Project Number: INTRIM-50675
Project Manager: Scott Robinson

MNK0317
Reported:
11/24/04 10:51

**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 4K11008 - EPA 5030B P/T / EPA 8260B

Blank (4K11008-BLK1)

Prepared & Analyzed: 11/11/04

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.67		"	5.00		93	78-129			

Laboratory Control Sample (4K11008-BS1)

Prepared & Analyzed: 11/11/04

tert-Amyl methyl ether	9.59	0.50	ug/l	10.0		96	82-140			
Benzene	8.81	0.50	"	10.0		88	69-124			
tert-Butyl alcohol	47.9	20	"	50.0		96	56-131			
Di-isopropyl ether	8.80	0.50	"	10.0		88	76-130			
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0		104	77-132			
1,2-Dichloroethane	9.81	0.50	"	10.0		98	77-136			
Ethanol	246	100	"	200		123	31-143			
Ethyl tert-butyl ether	9.18	0.50	"	10.0		92	81-121			
Ethylbenzene	11.0	0.50	"	10.0		110	84-132			
Methyl tert-butyl ether	9.32	0.50	"	10.0		93	63-137			
Toluene	11.0	0.50	"	10.0		110	78-129			
Xylenes (total)	33.0	0.50	"	30.0		110	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.64		"	5.00		93	78-129			

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

 Project: ARCO #6002, Oakland, CA
 Project Number: INTRIM-50675
 Project Manager: Scott Robinson

 MNK0317
 Reported:
 11/24/04 10:51

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 4K11008 - EPA 5030B P/T / EPA 8260B
Laboratory Control Sample (4K11008-BS2)

Prepared & Analyzed: 11/11/04

Gasoline Range Organics (C4-C12)	372	50	ug/l	440		85	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.74</i>		"	<i>5.00</i>		<i>95</i>	<i>78-129</i>			

Laboratory Control Sample Dup (4K11008-BSD1)

Prepared & Analyzed: 11/11/04

tert-Amyl methyl ether	9.43	0.50	ug/l	10.0		94	82-140	2	20	
Benzene	9.05	0.50	"	10.0		90	69-124	3	20	
tert-Butyl alcohol	48.3	20	"	50.0		97	56-131	0.8	20	
Di-isopropyl ether	8.81	0.50	"	10.0		88	76-130	0.1	20	
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0		104	77-132	0	20	
1,2-Dichloroethane	10.1	0.50	"	10.0		101	77-136	3	20	
Ethanol	220	100	"	200		110	31-143	11	20	
Ethyl tert-butyl ether	9.22	0.50	"	10.0		92	81-121	0.4	20	
Ethylbenzene	9.85	0.50	"	10.0		98	84-132	11	20	
Methyl tert-butyl ether	9.36	0.50	"	10.0		94	63-137	0.4	20	
Toluene	9.05	0.50	"	10.0		90	78-129	19	20	
Xylenes (total)	29.5	0.50	"	30.0		98	83-137	11	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.54</i>		"	<i>5.00</i>		<i>91</i>	<i>78-129</i>			

Matrix Spike (4K11008-MS1)

Source: MNK0314-02

Prepared & Analyzed: 11/11/04

Gasoline Range Organics (C4-C12)	18800	1000	ug/l	8800	13000	66	70-124			LN
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.54</i>		"	<i>5.00</i>		<i>91</i>	<i>78-129</i>			

Matrix Spike Dup (4K11008-MSD1)

Source: MNK0314-02

Prepared: 11/11/04 Analyzed: 11/12/04

Gasoline Range Organics (C4-C12)	35400	1000	ug/l	8800	13000	255	70-124	61	20	BA, LM
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.08</i>		"	<i>5.00</i>		<i>82</i>	<i>78-129</i>			

Batch 4K19002 - EPA 5030B P/T / EPA 8260B
Blank (4K19002-BLK1)

Prepared & Analyzed: 11/19/04

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	"							

Sequoia Analytical - Morgan Hill

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: INTRIM-50675
Project Manager: Scott Robinson

MNK0317
Reported:
11/24/04 10:51

**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 4K19002 - EPA 5030B P/T / EPA 8260B

Blank (4K19002-BLK1)

Prepared & Analyzed: 11/19/04

Methyl tert-butyl ether	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.75		"	5.00		115	78-129			

Laboratory Control Sample (4K19002-BS1)

Prepared & Analyzed: 11/19/04

tert-Amyl methyl ether	11.8	0.50	ug/l	10.0		118	82-140			
Benzene	10.8	0.50	"	10.0		108	69-124			
tert-Butyl alcohol	49.0	20	"	50.0		98	56-131			
Di-isopropyl ether	10.8	0.50	"	10.0		108	76-130			
1,2-Dibromoethane (EDB)	11.4	0.50	"	10.0		114	77-132			
1,2-Dichloroethane	12.1	0.50	"	10.0		121	77-136			
Ethanol	164	100	"	200		82	31-143			
Ethyl tert-butyl ether	11.3	0.50	"	10.0		113	81-121			
Ethylbenzene	9.92	0.50	"	10.0		99	84-132			
Methyl tert-butyl ether	12.2	0.50	"	10.0		122	63-137			
Toluene	10.3	0.50	"	10.0		103	78-129			
Xylenes (total)	29.3	0.50	"	30.0		98	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.72		"	5.00		114	78-129			

Laboratory Control Sample (4K19002-BS2)

Prepared & Analyzed: 11/19/04

Benzene	6.14	0.50	ug/l	6.40		96	69-124			
Ethylbenzene	8.21	0.50	"	7.52		109	84-132			
Methyl tert-butyl ether	10.7	0.50	"	9.92		108	63-137			
Toluene	35.4	0.50	"	31.9		111	78-129			
Xylenes (total)	39.8	0.50	"	36.6		109	83-137			
Gasoline Range Organics (C4-C12)	435	50	"	440		99	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.73		"	5.00		115	78-129			

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

 Project: ARCO #6002, Oakland, CA
 Project Number: INTRIM-50675
 Project Manager: Scott Robinson

 MNK0317
 Reported:
 11/24/04 10:51

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 4K19002 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample Dup (4K19002-BSD1)				Prepared & Analyzed: 11/19/04						
tert-Amyl methyl ether	11.9	0.50	ug/l	10.0	119	82-140	0.8	20		
Benzene	11.3	0.50	"	10.0	113	69-124	5	20		
tert-Butyl alcohol	50.7	20	"	50.0	101	56-131	3	20		
Di-isopropyl ether	11.2	0.50	"	10.0	112	76-130	4	20		
1,2-Dibromoethane (EDB)	11.7	0.50	"	10.0	117	77-132	3	20		
1,2-Dichloroethane	12.6	0.50	"	10.0	126	77-136	4	20		
Ethanol	207	100	"	200	104	31-143	23	20		RB
Ethyl tert-butyl ether	11.7	0.50	"	10.0	117	81-121	3	20		
Ethylbenzene	10.4	0.50	"	10.0	104	84-132	5	20		
Methyl tert-butyl ether	12.6	0.50	"	10.0	126	63-137	3	20		
Toluene	10.9	0.50	"	10.0	109	78-129	6	20		
Xylenes (total)	29.9	0.50	"	30.0	100	83-137	2	20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>										
	5.83		"	5.00	117	78-129				
Matrix Spike (4K19002-MS1)				Source: MNK0545-04						
				Prepared & Analyzed: 11/19/04						
Benzene	5010	100	ug/l	1280	3800	95	69-124			
Ethylbenzene	3590	100	"	1500	2000	106	84-132			
Methyl tert-butyl ether	2150	100	"	1980	ND	109	63-137			
Toluene	20800	100	"	6380	14000	107	78-129			
Xylenes (total)	22000	100	"	7310	15000	96	83-137			
Gasoline Range Organics (C4-C12)	162000	10000	"	88000	79000	94	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>										
	5.89		"	5.00	118	78-129				
Matrix Spike Dup (4K19002-MSD1)				Source: MNK0545-04						
				Prepared & Analyzed: 11/19/04						
Benzene	4870	100	ug/l	1280	3800	84	69-124	3	20	
Ethylbenzene	3620	100	"	1500	2000	108	84-132	0.8	20	
Methyl tert-butyl ether	1810	100	"	1980	ND	91	63-137	17	20	
Toluene	20300	100	"	6380	14000	99	78-129	2	20	
Xylenes (total)	22500	100	"	7310	15000	103	83-137	2	20	
Gasoline Range Organics (C4-C12)	158000	10000	"	88000	79000	90	70-124	2	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>										
	5.17		"	5.00	103	78-129				



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

Project: ARCO #6002, Oakland, CA
Project Number: INTRIM-50675
Project Manager: Scott Robinson

MNK0317
Reported:
11/24/04 10:51

Notes and Definitions

RB RPD exceeded method control limit; % recoveries within limits.
LN MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).
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: 6002 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company

MNK 0317

Date: 11/08/04

Requested Due Date (mm/dd/yy) 14 day PAT

On-site Time: 0600 Temp: 59%
 Off-site Time: 1100 Temp: 64%
 Sky Conditions: cloudy
 Meteorological Events:
 Wind Speed: 5 mph Direction: NE

Send To:	BP/GEM Facility No.: <u>ARCO 6002</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>6235 Seminary Ave, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 6002</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100105</u>	Consultant/Contractor Project No.: <u>J3-00006002.01 00427</u>
Lab PM: <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3288</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 8549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDD Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50675</u>

Heat No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO / BTEX (8015/8016/8017/8026/80260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE (8260)	DIBP, TBA (8260)	
1	MW-5	1023		X			01	3				X	X	X	X	X	X		
2	VW-1	0957					02	1				X	X	X	X	X	X		
3	VW-4	1013					03	1				X	X	X	X	X	X		
4	TB-6002-110804	-					04	2											on hold
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>Will Crow</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>11/9/04 9:25</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/9/04 9:25</u>
Sampler's Company: <u>Bane Tech</u>				
Shipment Date: <u>11/08/04</u>				
Shipment Method:				
Shipment Tracking No:				

Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Custody Seals In Place Yes X No Temperature Blank Yes X No Cooler Temperature on Receipt 6 °F Trip Blank Yes X No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Arco 6002
 REC. BY (PRINT) DN
 WORKORDER: MKK 0317

DATE REC'D AT LAB: 11/18/04
 TIME REC'D AT LAB: 10:25
 DATE LOGGED IN: 11-1-04

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

(For clients requiring preservation checks at receipt, document here ↓)

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="checkbox"/> Present / Absent <input checked="" type="checkbox"/> Intact / Broken*	01	A-C	HW-5	VOR 3	HU	-	W	11/18/04	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	02	L	L-4	↓ ↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: <input checked="" type="checkbox"/> Present / Absent	03	A-E	M-6002-110104	↓ 2	↓	↓	↓	↓	
4. Airbill: <input checked="" type="checkbox"/> Airbill / Sticker <input checked="" type="checkbox"/> Present / Absent									
5. Airbill #:									
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent									
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="checkbox"/> Yes / No*									
13. Trip Blank / Temp Blank Received? <input checked="" type="checkbox"/> Yes / No* <small>*(circle which, if yes)</small>									
14. Temp Rec. at Lab: <u>0°C</u> Is temp 4 ± 2°C? <input checked="" type="checkbox"/> Yes / No** <small>(Acceptance range for samples requiring thermal pres.)</small>									
**Exception (if any): METALS / OFF 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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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	11/12/2004 4:45:55 PM

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UPLOADING A GEO_WELL FILE

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Submittal Title: 4Q04 GEOWELL SUBMITTAL SITE
6002

Submittal Date/Time: 11/12/2004 4:47:29 PM

**Confirmation
Number:** 3312255680

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Confirmation Number: 6254218399

Date/Time of Submittal: 11/29/2004 6:40:57 PM

Facility Global ID: T0600100105

Facility Name: ARCO # 06002

Submittal Title: 4Q04 GW Monitoring Report Site 6002

Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

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

CONF #	TITLE	QUARTER
6254218399	4Q04 GW Monitoring Report Site 6002	Q4 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	11/29/2004	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%	N
---	---

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
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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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	11/29/2004 6:39:09 PM
<u>GLOBAL ID:</u>	T0600100105
<u>FILE UPLOADED:</u>	ARCO#6002-EDF-MNK0317.zip

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ARCO # 06002 6235 SEMINARY AVE OAKLAND, CA 94605	Regional Board - Case #: 01-0113 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3942 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%		N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%		Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%		N
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

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.