



Atlantic Richfield Company
(a BP affiliated company)

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



June 22, 2005

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

Alameda County
JUL 05 2005
Environmental Health

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



June 22, 2005

Ms. Donna Drogas
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
JUL 05 2005
Environmental Health

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

Dear Ms. Drogas:

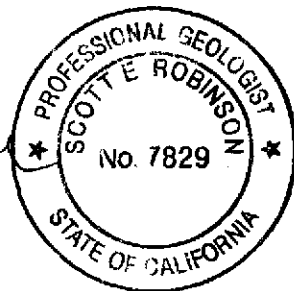
On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2005 Groundwater Monitoring Report* for the Former ARCO Service Station #6002, located at 6235 Seminary Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION


Scott Robinson, P.G.
Project Manager



Enclosure: Second Quarter 2005 Groundwater Monitoring Report

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

R E P O R T

**SECOND QUARTER 2005
GROUNDWATER MONITORING
REPORT**

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

Prepared for
RM

June 22, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: June 22, 2005
Quarter: 2Q05

SECOND 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 (Second – 2005):

1. Performed second quarter 2005 groundwater monitoring event on May 9, 2005.
2. Prepared and submitted this Second Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (Third – 2005):

1. Perform third quarter 2005 groundwater monitoring event.
2. Prepare and submit Third Quarter 2005 Groundwater Monitoring Report.
3. Repairs for wells MW-5, MW-6, and VW-1.

SITE SUMMARY:

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-5, VW-1, and VW-4
Annual (3rd quarter): MW-3, MW-4, MW-6, MW-7, and MW-8
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: Sheen (MW-5)
Bulk Soil Removed to Date : Approximately 370 cubic yards of TPH impacted soil
Current Remediation Techniques: None
Approximate Depth to Groundwater: 7.07 (MW-8) to 11.94 (MW-5) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.07 feet per foot

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 64 micrograms per liter ($\mu\text{g/L}$) (VW-1) to 3,400 $\mu\text{g/L}$ (MW-5). Toluene, ethylbenzene and xylenes were detected at or above their respective laboratory reporting limits in one well (MW-5) at concentrations of 1.7 $\mu\text{g/L}$, 12 $\mu\text{g/L}$, and 2.2 $\mu\text{g/L}$, respectively. Methyl tert-butyl ether was detected at or above the laboratory reporting limit in all three wells at concentrations ranging from 6.9 $\mu\text{g/L}$ (VW-1) to 37 $\mu\text{g/L}$ (VW-4). Benzene, tert-butyl alcohol and ethyl tert-butyl ether were detected at or above the laboratory reporting

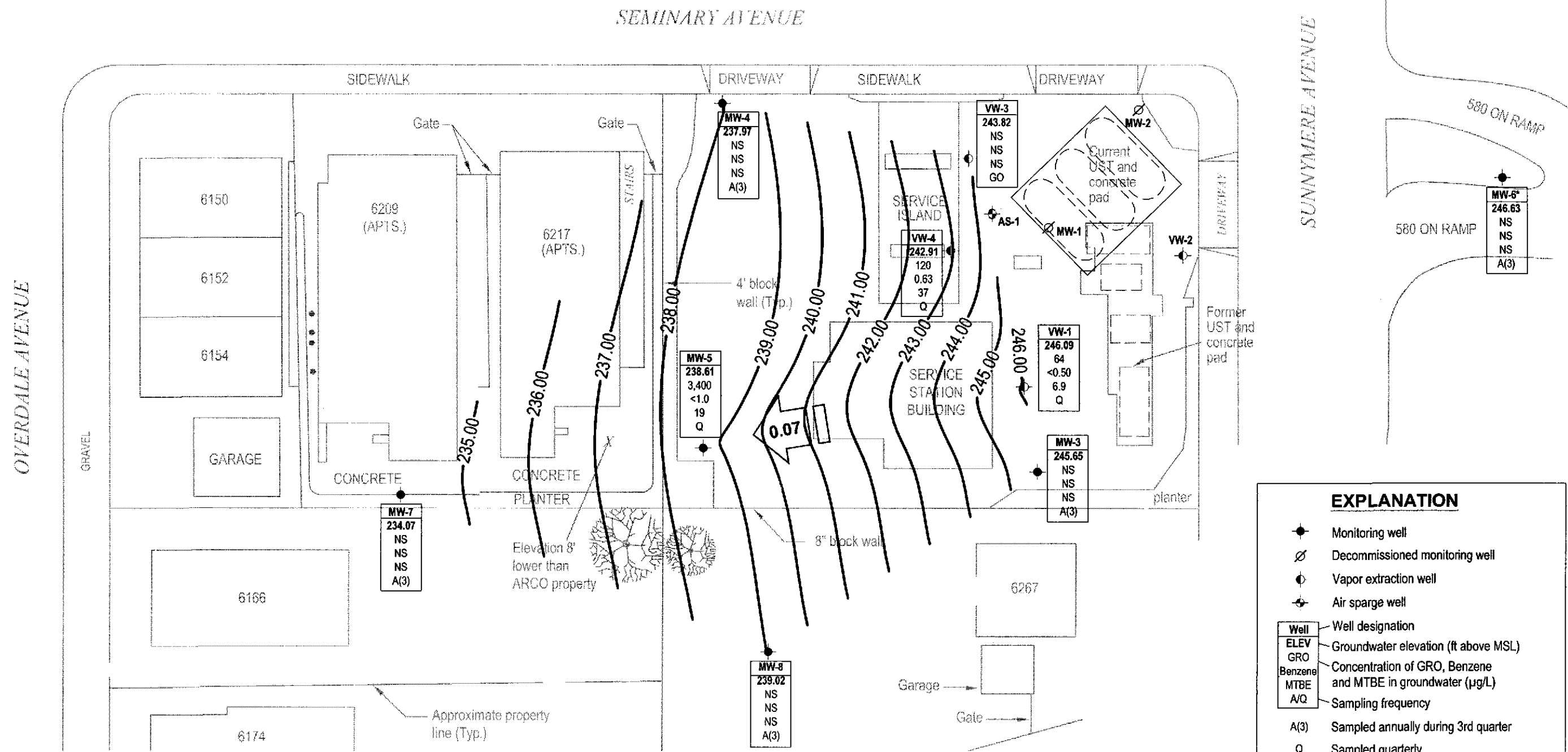
limits in one well (VW-4) at a concentrations of 0.63 µg/L, 1,200 µg/L and 0.92 µg/L. No other fuel components were detected at or above their respective laboratory reporting limits in any wells sampled this quarter.

Well MW-6 was not used in the groundwater elevation contouring because of its screen interval (Table 1).

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – May 9, 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

Jun 10, 2005 - 2:22pm
 X:\e_enu\waste\BP_GEM\sites\Scot_Robinson\Paul_Supple\0002\Monitoring\2005_Qtr_2\Drawings\0002-2005_GW.dwg



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 due to screen interval
— 244.00	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.

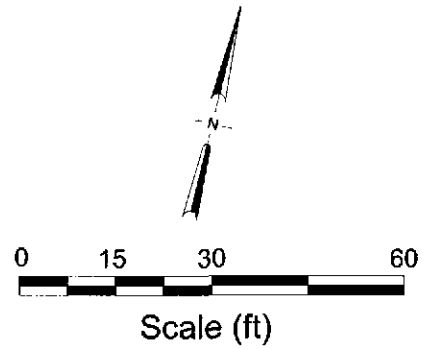


Table 1

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	--	--	--	--	--	--	--	--
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	--	--

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-4	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	--	--	--	--	--	--	--	--
	05/09/2005	--		248.62	4.50	24.50	10.65	--	237.97	--	--	--	--	--	--	--	--

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	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	--	--
	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

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	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
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	--
	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	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	--	--	--	--	--	--	--	--
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	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

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	2/25/2000	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	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	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--
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	--	--

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	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	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--
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	--	--

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	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	
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	--
VW-2	2/23/1996	--		--	--	--	6.92	--	--	--	--	--	--	--	--	--	--
	8/8/2002	--		--	--	--	10.51	--	--	--	--	--	--	--	--	--	--

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
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	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--
	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	--

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
VW-4	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
	05/09/2005	P		252.69	5.50	14.50	9.78	--	242.91	120	0.63	<0.50	<0.50	<0.50	37	--	--

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
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 = Not Purged before sampling
P = Purge before sampling
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.
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 (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. TPH-g has been changed to 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 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 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
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 = Not Purged before sampling
P = Purge before sampling
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.
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 (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. TPH-g has been changed to 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 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	
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	--	--	
	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
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	
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	--	--	
	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	

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	11/08/2004	<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	
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		

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

ug/L = Micrograms per Liter

FOOTNOTES:

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

NOTES:

All volatile organic compounds (Ethanol, TBA, MTBE, DIPE, ETBE, and TAME) 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
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

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 # 050509-PCS

Date 5/16/05

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					8.23	24.42	TOC	6.0
MW-4	4					10.65	24.15	 ↓	6.0
MW-5	4					11.94	24.49		NBS
MW-6	2					11.31	32.09		6.0
MW-7	2					7.57	13.29		6.0
MW-8	2					7.07	14.04		6.0
VW-1	4					7.10	14.02		
VW-3	4					8.44	14.22		6.0
VW-4	4					9.78	14.92		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050509-903</u>	Station # <u>ARCO 6002</u>
Sampler: <u>PC</u>	Date: <u>5/9/05</u>
Well I.D.: <u>MU-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth: <u>24.47</u>	Depth to Water: <u>11.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI <u>(KACH)</u>

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> <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump <input checked="" type="checkbox"/> Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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.

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

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1305</u>	<u>62.5</u>	<u>6.7</u>	<u>515</u>		<u>screen</u>

Did well dewater? Yes <input type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____	
Sampling Time: <u>1305</u>	Sampling Date: <u>5/9/05</u>	
Sample I.D.: <u>MU-5</u>	Laboratory: Pace <u>Sequon</u> Other _____	
Analyzed for: GRO BTEX MTBE DRO	Other: <u>see 100</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>2.2</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050509-PC3</u>	Station # <u>ARCO 6002</u>
Sampler: <u>PC</u>	Date: <u>5/9/08</u>
Well I.D.: <u>VW-1</u>	Well Diameter: 2 3 <u>@</u> 6 8 _____
Total Well Depth: <u>14.02</u>	Depth to Water: <u>7.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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> <u>Disposable Bailer</u> <u>Positive Air Displacement</u> <u>Electric Submersible</u> <u>Extraction Pump</u> Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> <u>Extraction Port</u> 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>4.5</u>	x	<u>3</u>	=	<u>13.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1405</u> 1305	<u>63.3</u>	<u>6.6</u>	<u>552</u>	<u>4.5</u>	
<u>1407</u>	<u>64.1</u>	<u>6.4</u>	<u>523</u>	<u>9</u>	
<u>1409</u>	<u>64.4</u>	<u>6.3</u>	<u>563</u>	<u>13.5</u>	

Did well dewater? Yes Gallons actually evacuated: 14

Sampling Time: 1414 Sampling Date: 5/9/08

Sample I.D.: VW-1 Laboratory: Pace Sequoia Other _____

Analyzed for: GRO BTEX MTBE DRO Other: see roc

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>3.5</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050509-PC3</u>	Station # <u>Arco 6002</u>
Sampler: <u>PC</u>	Date: <u>5/9/05</u>
Well I.D.: <u>1.75</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>14.92</u>	Depth to Water: <u>9.78</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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 <input checked="" type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> 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>33</u>	x	<u>3</u>	=	<u>9.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1430	63.9	6.6	579	3.5	cloudy
1432	63.9	6.7	585	7	
1435	64.2	6.8	597	10.5	

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>10.5</u>	
Sampling Time: <u>1442</u>	Sampling Date: <u>5/9/05</u>	
Sample I.D.: <u>1.75</u>	Laboratory: Pace <u>Sequa</u> Other _____	
Analyzed for: GRO BTEX MTBE DRO	Other: <u>seeloc</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>1.9</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ 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:

~~05050~~ 6002

Station #

6235 Seminary Ave., Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

24

added equip. rinse water 7

any other adjustments _____

TOTAL GALS. RECOVERED 31

loaded onto BTS vehicle # _____

BTS event # 050509-PC3

time 1430 date 5/9/08

signature PJHUN

RECD AT BTS

time _____ date 1/1

unloaded by 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.



25 May, 2005

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

RE: ARCO #6002, Oakland, CA
Work Order: MOE0427

Enclosed are the results of analyses for samples received by the laboratory on 05/10/05 15:13. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello For 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:G0C8K-0004 Project Manager:Scott Robinson	MOE0427 Reported: 05/25/05 16:51
---	--	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MOE0427-01	Water	05/09/05 13:05	05/10/05 15:13
VW-1	MOE0427-02	Water	05/09/05 14:14	05/10/05 15:13
VW-4	MOE0427-03	Water	05/09/05 14:42	05/10/05 15:13
TB-600205092005	MOE0427-04	Water	05/09/05 00:00	05/10/05 15:13

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 no custody seals.

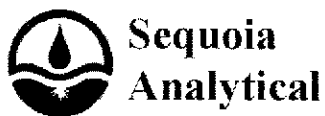
URS Corporation [Arco]
 1333 Broadway, Suite 800
 Oakland CA, 94612

 Project: ARCO #6002, Oakland, CA
 Project Number: GOC8K-0004
 Project Manager: Scott Robinson

 MOE0427
 Reported:
 05/25/05 16:51

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-5 (MOE0427-01) Water Sampled: 05/09/05 13:05 Received: 05/10/05 15:13										
tert-Amyl methyl ether	ND	1.0		ug/l	2	5E18011	05/18/05	05/18/05	EPA 8260B	
Benzene	ND	1.0		"	"	"	"	"	"	
tert-Butyl alcohol	ND	40		"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0		"	"	"	"	"	"	
Ethanol	ND	200		"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	12	1.0		"	"	"	"	"	"	
Methyl tert-butyl ether	19	1.0		"	"	"	"	"	"	
Toluene	1.7	1.0		"	"	"	"	"	"	
Xylenes (total)	2.2	1.0		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	3400	100		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		78 %		60-135		"	"	"	"	
VW-1 (MOE0427-02) Water Sampled: 05/09/05 14:14 Received: 05/10/05 15:13										
tert-Amyl methyl ether	ND	0.50		ug/l	1	5E17003	05/17/05	05/18/05	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	6.9	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	64	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %		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	MOE0427 Reported: 05/25/05 16:51
---	---	--

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VW-4 (MOE0427-03) Water Sampled: 05/09/05 14:42 Received: 05/10/05 15:13									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5E17003	05/17/05	05/17/05	EPA 8260B	
Benzene	0.63	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	1200	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	0.92	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	37	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	120	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87 %		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

MOE0427
Reported:
05/25/05 16:51

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E17003 - EPA 5030B P/T / EPA 8260B

Blank (5E17003-BLK1)

Prepared & Analyzed: 05/17/05

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 5.02 " 5.00 100 60-135

Laboratory Control Sample (5E17003-BS1)

Prepared & Analyzed: 05/17/05

tert-Amyl methyl ether	9.65	0.50	ug/l	10.0		96	80-115			
Benzene	8.66	0.50	"	10.0		87	65-115			
tert-Butyl alcohol	49.2	20	"	50.0		98	75-150			
Di-isopropyl ether	8.93	0.50	"	10.0		89	75-125			
1,2-Dibromoethane (EDB)	9.38	0.50	"	10.0		94	85-120			
1,2-Dichloroethane	9.91	0.50	"	10.0		99	85-130			
Ethanol	143	100	"	200		72	70-135			
Ethyl tert-butyl ether	9.67	0.50	"	10.0		97	75-130			
Ethylbenzene	9.02	0.50	"	10.0		90	75-135			
Methyl tert-butyl ether	9.94	0.50	"	10.0		99	65-125			
Toluene	9.38	0.50	"	10.0		94	85-120			
Xylenes (total)	27.2	0.50	"	30.0		91	85-125			

Surrogate: 1,2-Dichloroethane-d4 4.87 " 5.00 97 60-135



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

Project: ARCO #6002, Oakland, CA
Project Number: GOC8K-0004
Project Manager: Scott Robinson

MOE0427
Reported:
05/25/05 16:51

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E17003 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (5E17003-BS2)				Prepared & Analyzed: 05/17/05						
Benzene	4.93	0.50	ug/l	6.08		81	65-115			
Ethylbenzene	8.11	0.50	"	7.84		103	75-135			
Methyl tert-butyl ether	8.41	0.50	"	9.60		88	65-125			
Toluene	36.8	0.50	"	32.9		112	85-120			
Xylenes (total)	41.9	0.50	"	38.5		109	85-125			
Gasoline Range Organics (C4-C12)	420	50	"	440		95	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.35</i>		<i>"</i>	<i>5.00</i>		<i>87</i>	<i>60-135</i>			

Laboratory Control Sample Dup (5E17003-BSD1)				Prepared & Analyzed: 05/17/05						
tert-Amyl methyl ether	9.18	0.50	ug/l	10.0		92	80-115	5	15	
Benzene	9.22	0.50	"	10.0		92	65-115	6	20	
tert-Butyl alcohol	49.7	20	"	50.0		99	75-150	1	25	
Di-isopropyl ether	9.48	0.50	"	10.0		95	75-125	6	15	
1,2-Dibromoethane (EDB)	9.35	0.50	"	10.0		94	85-120	0.3	15	
1,2-Dichloroethane	9.56	0.50	"	10.0		96	85-130	4	20	
Ethanol	137	100	"	200		68	70-135	4	35	HM
Ethyl tert-butyl ether	9.28	0.50	"	10.0		93	75-130	4	25	
Ethylbenzene	9.85	0.50	"	10.0		98	75-135	9	15	
Methyl tert-butyl ether	9.66	0.50	"	10.0		97	65-125	3	20	
Toluene	10.2	0.50	"	10.0		102	85-120	8	20	
Xylenes (total)	29.5	0.50	"	30.0		98	85-125	8	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.41</i>		<i>"</i>	<i>5.00</i>		<i>88</i>	<i>60-135</i>			

Matrix Spike (5E17003-MS1)		Source: MOE0430-01		Prepared & Analyzed: 05/17/05						
Benzene	637	50	ug/l	608	140	82	65-115			
Ethylbenzene	860	50	"	784	62	102	75-135			
Methyl tert-butyl ether	2610	50	"	960	1800	84	65-125			
Toluene	3720	50	"	3290	16	113	85-120			
Xylenes (total)	4170	50	"	3850	ND	108	85-125			
Gasoline Range Organics (C4-C12)	43900	5000	"	44000	3100	93	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.56</i>		<i>"</i>	<i>5.00</i>		<i>91</i>	<i>60-135</i>			



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

Project: ARCO #6002, Oakland, CA
 Project Number: GOC8K-0004
 Project Manager: Scott Robinson

MOE0427
 Reported:
 05/25/05 16:51

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E17003 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5E17003-MSD1)	Source: MOE0430-01	Prepared & Analyzed: 05/17/05								
Benzene	602	50	ug/l	608	140	76	65-115	6	20	
Ethylbenzene	819	50	"	784	62	97	75-135	5	15	
Methyl tert-butyl ether	2620	50	"	960	1800	85	65-125	0.4	20	
Toluene	3500	50	"	3290	16	106	85-120	6	20	
Xylenes (total)	3940	50	"	3850	ND	102	85-125	6	20	
Gasoline Range Organics (C4-C12)	41500	5000	"	44000	3100	87	70-124	6	20	
Surrogate: 1,2-Dichloroethane-d4	4.25		"	5.00		85	60-135			

Batch 5E18011 - EPA 5030B P/T / EPA 8260B

Blank (5E18011-BLK1)	Prepared & Analyzed: 05/18/05									
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	4.84		"	5.00		97	60-135			

Laboratory Control Sample (5E18011-BS1)	Prepared & Analyzed: 05/18/05									
tert-Amyl methyl ether	10.3	0.50	ug/l	10.0		103	80-115			
Benzene	9.39	0.50	"	10.0		94	65-115			
tert-Butyl alcohol	51.1	20	"	50.0		102	75-150			
Di-isopropyl ether	9.56	0.50	"	10.0		96	75-125			
1,2-Dibromoethane (EDB)	9.99	0.50	"	10.0		100	85-120			
1,2-Dichloroethane	10.7	0.50	"	10.0		107	85-130			
Ethanol	199	100	"	200		100	70-135			IC
Ethyl tert-butyl ether	10.1	0.50	"	10.0		101	75-130			
Ethylbenzene	10.6	0.50	"	10.0		106	75-135			
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	65-125			

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: G0C8K-0004 Project Manager: Scott Robinson	MOE0427 Reported: 05/25/05 16:51
---	---	--

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E18011 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (5E18011-BS1) Prepared & Analyzed: 05/18/05

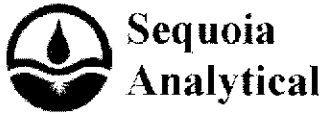
Toluene	9.84	0.50	ug/l	10.0		98	85-120			
Xylenes (total)	31.2	0.50	"	30.0		104	85-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.02</i>		<i>"</i>	<i>5.00</i>		<i>100</i>	<i>60-135</i>			

Laboratory Control Sample (5E18011-BS2) Prepared & Analyzed: 05/18/05

Benzene	4.81	0.50	ug/l	6.08		79	65-115			
Ethylbenzene	7.91	0.50	"	7.84		101	75-135			
Methyl tert-butyl ether	9.22	0.50	"	9.60		96	65-125			
Toluene	35.5	0.50	"	32.9		108	85-120			
Xylenes (total)	40.5	0.50	"	38.5		105	85-125			
Gasoline Range Organics (C4-C12)	401	50	"	440		91	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.96</i>		<i>"</i>	<i>5.00</i>		<i>99</i>	<i>60-135</i>			

Laboratory Control Sample Dup (5E18011-BSD1) Prepared & Analyzed: 05/18/05

tert-Amyl methyl ether	9.63	0.50	ug/l	10.0		96	80-115	7	15	
Benzene	8.84	0.50	"	10.0		88	65-115	6	20	
tert-Butyl alcohol	50.6	20	"	50.0		101	75-150	1	25	
Di-isopropyl ether	8.99	0.50	"	10.0		90	75-125	6	15	
1,2-Dibromoethane (EDB)	8.83	0.50	"	10.0		88	85-120	12	15	
1,2-Dichloroethane	9.58	0.50	"	10.0		96	85-130	11	20	
Ethanol	89.0	100	"	200		44	70-135	76	35	IC, HM, BA
Ethyl tert-butyl ether	9.54	0.50	"	10.0		95	75-130	6	25	
Ethylbenzene	9.93	0.50	"	10.0		99	75-135	7	15	
Methyl tert-butyl ether	9.71	0.50	"	10.0		97	65-125	6	20	
Toluene	9.91	0.50	"	10.0		99	85-120	0.7	20	
Xylenes (total)	30.0	0.50	"	30.0		100	85-125	4	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.58</i>		<i>"</i>	<i>5.00</i>		<i>92</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	MOE0427 Reported: 05/25/05 16:51
---	---	--

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5E18011 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5E18011-MS1)		Source: MOE0564-03			Prepared & Analyzed: 05/18/05					
Benzene	526	25	ug/l	304	310	71	65-115			
Ethylbenzene	708	25	"	392	320	99	75-135			
Methyl tert-butyl ether	409	25	"	480	ND	85	65-125			
Toluene	1840	25	"	1640	58	109	85-120			
Xylenes (total)	2730	25	"	1920	570	112	85-125			
Gasoline Range Organics (C4-C12)	29500	2500	"	22000	8200	97	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.46</i>		<i>"</i>	<i>5.00</i>		<i>89</i>	<i>60-135</i>			

Matrix Spike Dup (5E18011-MSD1)		Source: MOE0564-03			Prepared & Analyzed: 05/18/05					
Benzene	556	25	ug/l	304	310	81	65-115	6	20	
Ethylbenzene	730	25	"	392	320	105	75-135	3	15	
Methyl tert-butyl ether	452	25	"	480	ND	94	65-125	10	20	
Toluene	1840	25	"	1640	58	109	85-120	0	20	
Xylenes (total)	2680	25	"	1920	570	110	85-125	2	20	
Gasoline Range Organics (C4-C12)	28700	2500	"	22000	8200	93	70-124	3	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.88</i>		<i>"</i>	<i>5.00</i>		<i>98</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

MOE0427
Reported:
05/25/05 16:51

Notes and Definitions

IC Calib. verif. is within method limits but outside contract limits

HM Analyte recovery below established limit

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 Francisco
 Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: <u>1250</u>	Temp: <u>65°F</u>
Off-site Time: <u>1455</u>	Temp: <u>70°F</u>
Sky Conditions: <u>cloudy</u>	
Meteorological Events: <u>none</u>	
Wind Speed:	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</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 BDD To: <u>Rachel.Lindvall@urscorp.com</u>
	Sub Phase/Task: <u>03 - Analytical</u>	Invoice to: <u>Atlantic Richfield Company</u>
	Cost Element: <u>05 - Subcontracted Costs</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	PERO / BTEX (3260)	MTBE, TAME, ETBE (3260)	DIBP, TBA (3260)	EDB, 1,2-DCA (3260)	Ethanol (3260)	
1	MW-5	1306	5/19/06	X			01	3											MOE 6427
2	VW-1	1414		X			02	3											
3	VW-4	1442		X			03	3											
4	TB-60020501	006		X			04	2											
5																			
6																			
7																			
8																			
9																			
10																			

Sampler's Name: <u>P. Connors</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>BIS</u>	<u>[Signature]</u>	<u>5/19/06</u>	<u>1410</u>	<u>[Signature]</u>	<u>5/19/06</u>	<u>1410</u>
Shipment Date:					<u>5/19</u>	<u>1513</u>
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Acia # 6002
 REC. BY (PRINT) JAY
 WORKORDER: MOLE 0427

DATE REC'D AT LAB: 5/10/05
 TIME REC'D AT LAB: 5:13
 DATE LOGGED IN: 5-11-05

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) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	61		MV-5	(3) VOA	HCl	-	W	5/10/05	JJA 5/10/05
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	62		VW-1	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent	64		TD-60022050720	(2) VOA	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent									
5. Airbill #:									
6. Sample Labels: 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? (circle which, if yes) <input checked="" type="checkbox"/> Yes / No*									
14. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / No**									

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / DFF ON ICE
 & Problem COC

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

ATTACHMENT C

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

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	6/2/2005 3:27:06 PM

Processing is complete. No errors were found!
You may now proceed to the [upload](#) page.

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_WELL FILE

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

**Submittal Title: 2Q 2005 QMR Geo_Well Site
6002**

Submittal Date/Time: 6/2/2005 3:32:48 PM

**Confirmation
Number: 4194869816**

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)

Electronic Submittal Information

[Main Menu](#) |
 [View/Add Facilities](#) |
 [Upload EDD](#) |
 [Check EDD](#)

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	
GLOBAL ID:	T0600100105
FILE UPLOADED:	ARCO#6002-EDF-MOE0427.zip

No errors were found in your EDF upload file.

If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.

When you complete the submittal process, you will be given a confirmation number for your submittal.

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)
---	---

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
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
<u>WATER SAMPLES FOR 8021/8260 SERIES</u>		
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
<u>SOIL SAMPLES FOR 8021/8260 SERIES</u>		
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
<u>FIELD QC SAMPLES</u>		
<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.

Electronic Submittal Information

[Main Menu](#) |
 [View/Add Facilities](#) |
 [Upload EDD](#) |
 [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 5100225329
Date/Time of Submittal: 6/2/2005 3:34:08 PM
Facility Global ID: T0600100105
Facility Name: ARCO # 06002
Submittal Title: 2Q 2005 QMR EDF 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
5100225329	2Q 2005 QMR EDF Site 6002	Q2 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	6/2/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	3
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
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 > REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.