URS

R0078

September 29, 2005

Ms. Donna Drogos
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #0374
6407 Telegraph Avenue
Oakland, California
ACEH Case #3884

Dear Ms. Drogas:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #0374, located at 6407 Telegraph Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION

PROFESSIONAL GEOLOGIST
SCOTT E. ROBINSON
No. 7829
STATE OF CALIFORNIA

Scott Robinson, P.G.
Project Manager

Enclosure: Third Quarter 2005 Groundwater Monitoring Report

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

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #0374
6407 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

Prepared for
RM

September 29, 2005

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: September 29, 2005

Quarter: 3Q 05

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

Facility No.: 0374	Address: 6407 Telegraph Avenue, Oakland, CA
RM Environmental Business Manager:	Paul Supple
Consulting Co./Contact Person:	URS Corporation / Scott Robinson
Primary Agency	Alameda County Environmental Health (ACEH)
ACEH Case #:	3884

WORK PERFORMED THIS QUARTER (Third– 2005):

1. Performed the third quarter 2005 groundwater monitoring event on August 11, 2005.
2. Prepared and submitted this Third Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (Fourth– 2005):

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

SITE SUMMARY:

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	Quarterly: MW-1 Semi-Annually (1st & 3rd quarters): MW-2, MW-4 Annually (3rd quarter): MW-3, MW-5, MW-6
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	None
Approximate Depth to Groundwater:	5.02 (MW-6) to 8.39 (MW-5) feet
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.06 feet per foot

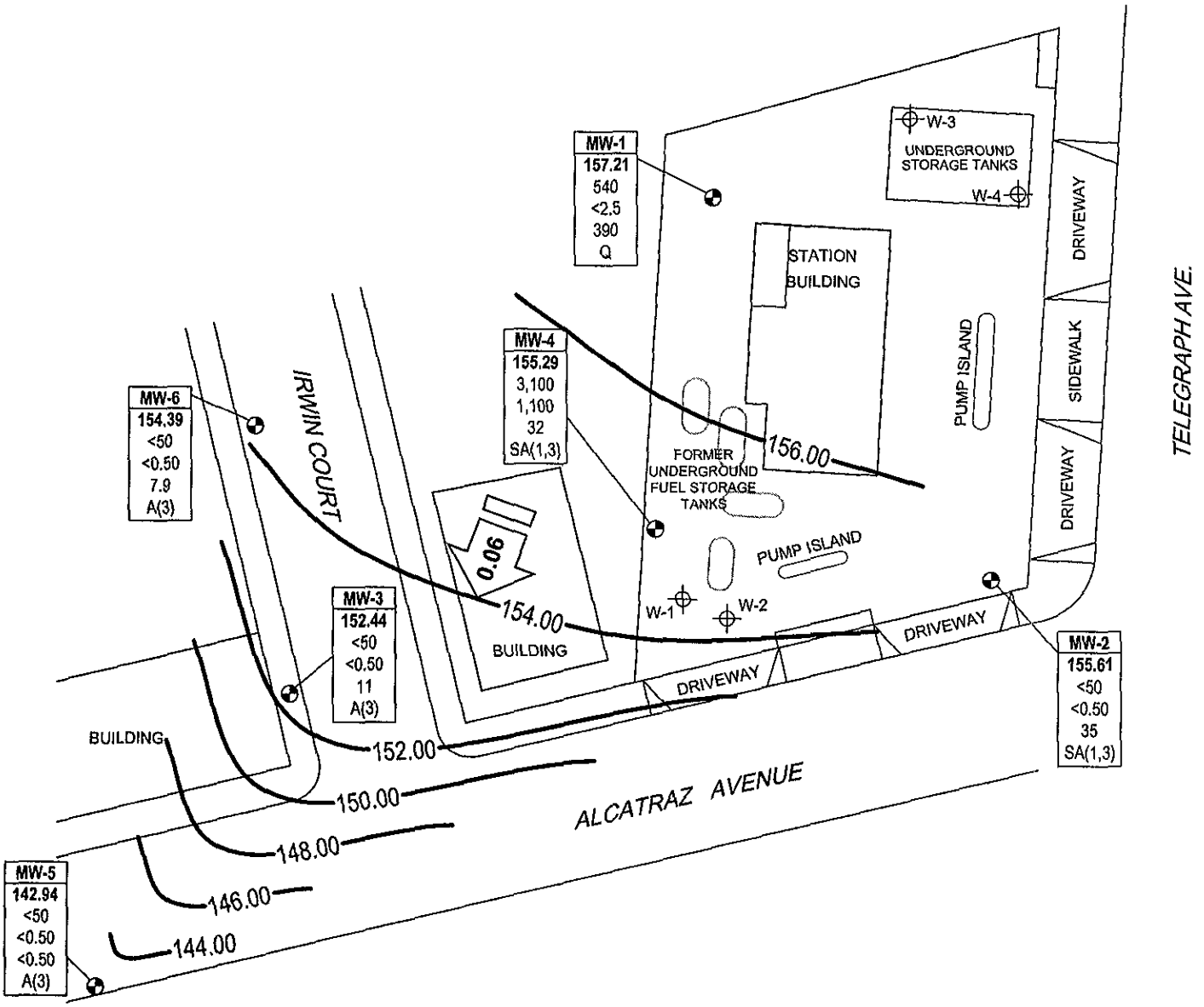
DISCUSSION:

Gasoline range organics were detected at or above the laboratory reporting limit in two of the six wells sampled this quarter at concentrations of 540 micrograms per liter (µg/L) (MW-1) and 3,100 (µg/L) (MW-4). Benzene, toluene and ethyl benzene were detected at or above their respective laboratory reporting limits in one of the six wells sampled (MW-4) at concentrations of 1,100 µg/L, 41 µg/L and 160 µg/L, respectively. Methyl-tert-butyl ether was detected at or above the laboratory limit in five of the six wells sampled at concentrations ranging from 7.9 (µg/L) (MW-6) to 390 (µg/L) (MW-1). Tert-amyl-methyl ether and tert-butyl alcohol were detected at or above their respective laboratory reporting limits in one of the six wells sampled (MW-1) at concentrations of 2.6 µg/L and 250 µg/L, respectively. Xylenes were detected at or above their respective laboratory reporting limits in two of the six

wells sampled at concentrations of 4.0(μg/L) (MW-1) and 110 (μg/L) (MW-4). No other constituents were detected at or above their respective laboratory reporting limits. During sampling, wells MW-3 and MW-5 dewatered after 29 and 20 gallons were purged.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 11, 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



LEGEND

- MONITORING WELL
- TANK PIT MONITORING WELL
- Well — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION
- GRO / Benzene / MTBE — GRO, BENZENE & MTBE CONCENTRATIONS IN GROUNDWATER (µg/L)
- A/Q/SA — SAMPLING FREQUENCY
- < — NOT DETECTED AT OR ABOVE LABORATORY LIMITS
- A(3) — SAMPLED ANNUALLY, 3RD QUARTER
- Q — SAMPLED QUARTERLY
- SA(1,3) — SAMPLED ANNUALLY, 1ST & 3RD QUARTERS
- NS — NOT SAMPLED
- 0.06 — APPROXIMATE GROUNDWATER FLOW AND DIRECTION (FT/FT)
- 146.00 — GROUNDWATER ELEVATION CONTOUR (FT/MSL)

NORTH

0 40 80

SCALE IN FEET

NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

URS	Project No. 38487164 ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2005 (August 11, 2005)	FIGURE 1

Sep 29, 2005 - 12:57pm
X:\e_envl_waste\BP GEM\Sites\Scott Robinson\Paul Supple\0374\Monitoring\2005 Qtr. 3\Drawings\374-3Q05-GW.dwg

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374

6407 Telegraph Ave., Oakland, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	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-1	6/20/2000	--		158.91	7.00	27.00	6.86	152.05	--	--	--	--	--	--	--	--
	9/28/2000	--		158.91	7.00	27.00	7.50	151.41	--	--	--	--	--	--	--	--
	12/17/2000	--		158.91	7.00	27.00	7.49	151.42	--	--	--	--	--	--	--	--
	3/23/2001	--		158.91	7.00	27.00	5.90	153.01	<50	<0.5	<0.5	<0.5	<0.5	2,710	--	--
	6/21/2001	--		158.91	7.00	27.00	7.45	151.46	--	--	--	--	--	--	--	--
	9/23/2001	--		158.91	7.00	27.00	8.46	150.45	--	--	--	--	--	--	--	--
	12/31/2001	--		158.91	7.00	27.00	5.50	153.41	--	--	--	--	--	--	--	--
	3/21/2002	--		158.91	7.00	27.00	4.71	154.20	<5,000	<50	<50	<50	<50	2,000	--	--
	4/17/2002	--		158.91	7.00	27.00	5.54	153.37	--	--	--	--	--	--	--	--
	8/12/2002	--		158.91	7.00	27.00	7.77	151.14	--	--	--	--	--	--	--	--
	12/6/2002	--		158.91	7.00	27.00	7.65	151.26	--	--	--	--	--	--	--	--
	1/29/2003	--	b	158.91	7.00	27.00	5.88	153.03	--	--	--	--	--	--	--	--
	5/23/2003	--		158.91	7.00	27.00	5.62	153.29	<10,000	<100	<100	<100	<100	1,600	1.3	7.1
	9/4/2003	--		158.91	7.00	27.00	7.85	151.06	--	--	--	--	--	--	--	--
	11/20/2003	P		158.91	7.00	27.00	8.17	150.74	1,600	<10	<10	<10	<10	1,500	1.70	6.7
	02/02/2004	P		164.57	7.00	27.00	6.71	157.86	--	--	--	--	--	--	1.0	--
	05/14/2004	P		164.57	7.00	27.00	7.08	157.49	<2,500	<25	<25	<25	<25	1,200	1.40	6.6
	09/02/2004	P		164.57	7.00	27.00	8.12	156.45	580	<5.0	<5.0	<5.0	<5.0	660	3.80	6.7
	11/04/2004	P		164.57	7.00	27.00	7.38	157.19	1,700	<10	<10	<10	<10	580	6.0	6.5
	02/08/2005	P		164.57	7.00	27.00	6.60	157.97	<1,000	<10	<10	<10	<10	610	0.71	6.5
	05/09/2005	P	e	164.57	7.00	27.00	6.84	157.73	540	<5.0	<5.0	<5.0	5.5	620	3.12	6.6
	08/11/2005	**P**		**164.57**	**7.00**	**27.00**	**7.36**	**157.21**	**540**	**<2.5**	**<2.5**	**<2.5**	**4.0**	**390**	**0.80**	**6.6**
MW-2	6/20/2000	--		157.92	7.00	27.00	7.67	150.25	--	--	--	--	--	--	--	--
	9/28/2000	--		157.92	7.00	27.00	8.51	149.41	--	--	--	--	--	--	--	--
	12/17/2000	--		157.92	7.00	27.00	8.14	149.78	--	--	--	--	--	--	--	--
	3/23/2001	--		157.92	7.00	27.00	7.21	150.71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	6/21/2001	--		157.92	7.00	27.00	7.99	149.93	--	--	--	--	--	--	--	--
	9/23/2001	--		157.92	7.00	27.00	8.52	149.40	--	--	--	--	--	--	--	--
	12/31/2001	--		157.92	7.00	27.00	6.01	151.91	--	--	--	--	--	--	--	--
	3/21/2002	--		157.92	7.00	27.00	5.95	151.97	<50	<0.5	<0.5	<0.5	<0.5	45	--	--
	4/17/2002	--		157.92	7.00	27.00	6.45	151.47	--	--	--	--	--	--	--	--
	8/12/2002	--		157.92	7.00	27.00	8.08	149.84	--	--	--	--	--	--	--	--
	12/6/2002	--		157.92	7.00	27.00	8.29	149.63	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374

6407 Telegraph Ave., Oakland, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	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-2	1/29/2003	--	b	157.92	7.00	27.00	7.22	150.70	--	--	--	--	--	--	--	--
	5/23/2003	--		157.92	7.00	27.00	6.85	151.07	<50	<0.50	<0.50	<0.50	<0.50	55	1.4	7.2
	9/4/2003	--		157.92	7.00	27.00	7.94	149.98	--	--	--	--	--	--	--	--
	11/20/2003	--		157.92	7.00	27.00	8.05	149.87	--	--	--	--	--	--	--	--
	02/02/2004	P		163.46	7.00	27.00	7.00	156.46	74	<0.50	<0.50	<0.50	<0.50	37	1.10	8.9
	05/14/2004	--		163.46	7.00	27.00	7.97	155.49	--	--	--	--	--	--	--	--
	09/02/2004	P		163.46	7.00	27.00	8.19	155.27	<250	<2.5	<2.5	<2.5	<2.5	67	2.70	6.9
	11/04/2004	--		163.46	7.00	27.00	7.54	155.92	--	--	--	--	--	--	--	--
	02/08/2005	P		163.46	7.00	27.00	6.72	156.74	<50	<0.50	<0.50	<0.50	<0.50	30	0.86	6.7
	05/09/2005	--		163.46	7.00	27.00	7.16	156.30	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**163.46**	**7.00**	**27.00**	**7.85**	**155.61**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**35**	**1.0**	**6.6**
MW-3	6/20/2000	--		153.64	7.00	27.00	6.42	147.22	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
	9/28/2000	--		153.64	7.00	27.00	7.31	146.33	--	--	--	--	--	--	--	--
	12/17/2000	--		153.64	7.00	27.00	6.45	147.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/23/2001	--		153.64	7.00	27.00	6.01	147.63	--	--	--	--	--	--	--	--
	6/21/2001	--		153.64	7.00	27.00	6.80	146.84	110	5.5	<0.5	5.4	4.1	2.5	--	--
	9/23/2001	--		153.64	7.00	27.00	7.32	146.32	--	--	--	--	--	--	--	--
	12/31/2001	--		153.64	7.00	27.00	4.48	149.16	<50	<0.5	<0.5	<0.5	<0.5	4.9	--	--
	3/21/2002	--		153.64	7.00	27.00	4.36	149.28	--	--	--	--	--	--	--	--
	4/17/2002	--		153.64	7.00	27.00	5.31	148.33	<50	<0.5	<0.5	<0.5	<0.5	8.7	--	--
	8/12/2002	--		153.64	7.00	27.00	7.00	146.64	--	--	--	--	--	--	--	--
	12/6/2002	--		153.64	7.00	27.00	7.32	146.32	<50	<0.5	<0.5	<0.5	<0.5	6.2	1.4	6.7
	1/29/2003	--	b	153.64	7.00	27.00	6.07	147.57	--	--	--	--	--	--	--	--
	5/23/2003	--		153.64	7.00	27.00	6.45	147.19	<50	<0.50	<0.50	<0.50	<0.50	1.6	0.9	7.7
	9/4/2003	--	c	153.64	7.00	27.00	6.93	146.71	--	--	--	--	--	--	--	--
	11/20/2003	--	c	153.64	7.00	27.00	7.04	146.60	--	--	--	--	--	--	--	--
	02/02/2004	--		159.21	7.00	27.00	5.92	153.29	--	--	--	--	--	--	--	--
	05/14/2004	--		159.21	7.00	27.00	7.52	151.69	--	--	--	--	--	--	--	--
	09/02/2004	P		159.21	7.00	27.00	7.19	152.02	<50	<0.50	<0.50	<0.50	<0.50	6.5	9.30	8.9
	11/04/2004	--		159.21	7.00	27.00	6.40	152.81	--	--	--	--	--	--	--	--
	02/08/2005	--		159.21	7.00	27.00	6.01	153.20	--	--	--	--	--	--	--	--
	05/09/2005	--		159.21	7.00	27.00	6.74	152.47	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**159.21**	**7.00**	**27.00**	**6.77**	**152.44**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**11**	**1.90**	**6.5**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374

6407 Telegraph Ave., Oakland, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	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	6/20/2000	--	c	156.53	7.00	27.00	7.50	149.03	20,000	5,100	440	1,000	1,700	<250	--	--
	9/28/2000	--		156.53	7.00	27.00	8.20	148.33	--	--	--	--	--	--	--	--
	12/17/2000	--		156.53	7.00	27.00	8.11	148.42	4,320	1,240	<20	27.2	249	<100	--	--
	3/23/2001	--		156.53	7.00	27.00	6.69	149.84	--	--	--	--	--	--	--	--
	6/21/2001	--		156.53	7.00	27.00	8.01	148.52	2,800	470	16	19	160	130	--	--
	9/23/2001	--		156.53	7.00	27.00	8.91	147.62	--	--	--	--	--	--	--	--
	12/31/2001	--		156.53	7.00	27.00	4.42	152.11	4,600	1,500	100	160	210	160	--	--
	3/21/2002	--		156.53	7.00	27.00	4.98	151.55	--	--	--	--	--	--	--	--
	4/17/2002	--		156.53	7.00	27.00	6.23	150.30	7,100	2,200	110	290	450	<250	--	--
	8/12/2002	--		156.53	7.00	27.00	8.24	148.29	--	--	--	--	--	--	--	--
	12/6/2002	--	a	156.53	7.00	27.00	8.42	148.11	1,500	410	6.8	20	29	43	1.1	6.7
	1/29/2003	--	b	156.53	7.00	27.00	7.20	149.33	--	--	--	--	--	--	--	--
	5/23/2003	--		156.53	7.00	27.00	7.18	149.35	<5,000	1,300	89	210	260	<50	1.4	6.9
	9/4/2003	--	c	156.53	7.00	27.00	8.15	148.38	--	--	--	--	--	--	--	--
	11/20/2003	--	c	156.53	7.00	27.00	8.73	147.80	--	--	--	--	--	--	--	--
	02/02/2004	P	c	163.25	7.00	27.00	6.25	157.00	980	280	21	29	38	29	1.40	10.6
	05/14/2004	--		163.25	7.00	27.00	8.38	154.87	--	--	--	--	--	--	--	--
	09/02/2004	P		163.25	7.00	27.00	8.36	154.89	260	11	<1.0	5.5	14	28	2.40	7.4
	11/04/2004	--	c	163.25	7.00	27.00	7.71	155.54	--	--	--	--	--	--	--	--
	02/08/2005	P		163.25	7.00	27.00	6.27	156.98	7,500	1,700	320	480	920	45	0.65	6.5
	05/09/2005	--		163.25	7.00	27.00	5.90	157.35	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**163.25**	**7.00**	**27.00**	**7.96**	**155.29**	**3,100**	**1,100**	**41**	**160**	**110**	**32**	**0.60**	**6.5**
MW-5	6/20/2000	--		151.33	10.00	23.00	7.84	143.49	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--
	9/28/2000	--		151.33	10.00	23.00	8.37	142.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	12/17/2000	--		151.33	10.00	23.00	8.36	142.97	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	3/23/2001	--		151.33	10.00	23.00	7.55	143.78	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	6/21/2001	--		151.33	10.00	23.00	8.20	143.13	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	9/23/2001	--		151.33	10.00	23.00	8.68	142.65	<50	<0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	12/31/2001	--		151.33	10.00	23.00	7.57	143.76	<50	<0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	3/21/2002	--		151.33	10.00	23.00	6.12	145.21	<50	<0.5	<0.5	<0.5	<0.5	3.2	--	--
	4/17/2002	--		151.33	10.00	23.00	6.61	144.72	<50	<0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	8/12/2002	--		151.33	10.00	23.00	8.14	143.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	4.1	7.6
	12/6/2002	--		151.33	10.00	23.00	8.65	142.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.1	6.8

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374

6407 Telegraph Ave., Oakland, CA

Well No.	Date	P/ NP	Footnotes/ Comments	TOC (ft MSL)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (ft bgs)	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	1/29/2003	--	b	151.33	10.00	23.00	7.22	144.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1	6.6
	5/23/2003	--		151.33	10.00	23.00	7.31	144.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	6.6
	9/4/2003	--		151.33	10.00	23.00	9.50	141.83	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	6.7
	11/20/2003	--		151.33	10.00	23.00	8.31	143.02	--	--	--	--	--	--	--	--
	02/02/2004	--	c	151.33	10.00	23.00	6.92	144.41	--	--	--	--	--	--	--	--
	05/14/2004	--		151.33	10.00	23.00	8.56	142.77	--	--	--	--	--	--	--	--
	09/02/2004	P		151.33	10.00	23.00	8.79	142.54	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.50	6.8
	11/04/2004	--	c	151.33	10.00	23.00	8.33	143.00	--	--	--	--	--	--	--	--
	02/08/2005	--		151.33	10.00	23.00	7.28	144.05	--	--	--	--	--	--	--	--
	05/09/2005	--		151.33	10.00	23.00	8.19	143.14	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**151.33**	**10.00**	**23.00**	**8.39**	**142.94**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**1.20**	**6.6**
MW-6	6/20/2000	--		153.84	5.00	15.00	4.79	149.05	--	--	--	--	--	--	--	--
	9/28/2000	--		153.84	5.00	15.00	5.39	148.45	--	--	--	--	--	--	--	--
	12/17/2000	--		153.84	5.00	15.00	4.71	149.13	--	--	--	--	--	--	--	--
	3/23/2001	--		153.84	5.00	15.00	4.69	149.15	<50	< 0.5	< 0.5	< 0.5	< 0.5	<2.5	--	--
	6/21/2001	--		153.84	5.00	15.00	5.22	148.62	--	--	--	--	--	--	--	--
	9/23/2001	--		153.84	5.00	15.00	5.40	148.44	--	--	--	--	--	--	--	--
	12/31/2001	--		153.84	5.00	15.00	3.95	149.89	--	--	--	--	--	--	--	--
	3/21/2002	--		153.84	5.00	15.00	2.94	150.90	<50	<0.5	<0.5	<0.5	<0.5	5.2	--	--
	4/17/2002	--		153.84	5.00	15.00	5.11	148.73	--	--	--	--	--	--	--	--
	8/12/2002	--		153.84	5.00	15.00	5.23	148.61	--	--	--	--	--	--	--	--
	12/6/2002	--		153.84	5.00	15.00	5.29	148.55	--	--	--	--	--	--	--	--
	1/29/2003	--	b	153.84	5.00	15.00	4.79	149.05	--	--	--	--	--	--	--	--
	5/23/2003	--		153.84	5.00	15.00	4.31	149.53	<50	<0.50	<0.50	<0.50	<0.50	9.4	1	6.7
	09/04/03	--	d	153.84	5.00	15.00	--	--	--	--	--	--	--	--	--	--
	11/20/2003	--		153.84	5.00	15.00	6.31	147.53	--	--	--	--	--	--	--	--
	02/02/2004	--		159.41	5.00	15.00	4.78	154.63	--	--	--	--	--	--	--	--
	05/14/2004	--		159.41	5.00	15.00	6.29	153.12	--	--	--	--	--	--	--	--
	09/02/2004	--	d	159.41	5.00	15.00	5.79	153.62	--	--	--	--	--	--	--	--
	11/04/2004	--	d	159.41	5.00	15.00	--	--	--	--	--	--	--	--	--	--
	02/08/2005	--		159.41	5.00	15.00	5.13	154.28	--	--	--	--	--	--	--	--
	05/09/2005	--		159.41	5.00	15.00	4.52	154.89	--	--	--	--	--	--	--	--
	08/11/2005	**P**		**159.41**	**5.00**	**15.00**	**5.02**	**154.39**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**7.9**	**2.10**	**6.6**

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #0374
6407 Telegraph 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 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 = Well was not purged prior to sampling
P = Well was purged prior to 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 = Chromatogram Pattern: Gasoline C6-C10 for GRO/TPH-g.
b = Beginning this quarter, groundwater samples were analyzed by EPA method 8260B for TPH-g, BTEX, and fuel oxygenates.
c = Wells gauged with ORC sock in well.
d = Well inaccessible
e = The hydrocarbon result for GRO was partly due to individual peaks in the quantification range.

NOTES:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg was 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.

The depths for the top and bottom of the screens for wells MW-5 and MW-6 were taken from Delta Environmental sampling sheets because the well logs were not available.

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0374
6407 Telegraph 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-1	5/23/2003	<20,000	<4,000	1,600	<100	<100	<100	--	--	
	11/20/2003	<2,000	<400	1,500	<10	<10	<10	--	--	a
	05/14/2004	<5,000	<1,000	1,200	<25	<25	<25	<25	<25	
	09/02/2004	<1,000	<200	660	<5.0	<5.0	<5.0	<5.0	<5.0	
	11/04/2004	<2,000	<400	580	<10	<10	<10	<10	<10	
	02/08/2005	<2,000	<400	610	<10	<10	<10	<10	<10	
	05/09/2005	<1,000	<200	620	<5.0	<5.0	<5.0	<5.0	<5.0	a
	08/11/2005	**<500**	**250**	**390**	**<2.5**	**<2.5**	**2.6**	**<2.5**	**<2.5**	**a**
MW-2	5/23/2003	<100	<20	55	<0.50	<0.50	0.53	--	--	
	02/02/2004	<100	<20	37	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<500	<100	67	<2.5	<2.5	<2.5	<2.5	<2.5	
	02/08/2005	<100	<20	30	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	**<100**	**<20**	**35**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**a**
MW-3	5/23/2003	<100	<20	1.6	<0.50	<0.50	<0.50	--	--	
	09/02/2004	<100	<20	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	**<100**	**<20**	**11**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**a**
MW-4	5/23/2003	<10,000	<2,000	<50	<50	<50	<50	--	--	
	02/02/2004	<500	<100	29	<2.5	<2.5	2.6	<2.5	<2.5	
	09/02/2004	<200	<40	28	<1.0	<1.0	<1.0	<1.0	<1.0	
	02/08/2005	<5,000	<1,000	45	<25	<25	<25	<25	<25	
	08/11/2005	**<2,000**	**<400**	**32**	**<10**	**<10**	**<10**	**<10**	**<10**	
MW-5	1/29/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	5/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	9/4/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	**<100**	**<20**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-6	5/23/2003	<100	<20	9.4	<0.50	<0.50	<0.50	--	--	
	08/11/2005	**<100**	**<20**	**7.9**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**a**

Table 2

Fuel Additives Analytical Data

ARCO Service Station #0374
6407 Telegraph 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 = The continuing calibration verification for ethanol was outside of client contractual limits, however, it was within method acceptance limits. The data should still be useful for its intended purpose.

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

Table 3

Groundwater Gradient Data

ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
01/31/1996	Southwest	0.04
04/10/1996	Southwest	0.04
07/16/1996	Southwest	0.03
10/14/1996	Southwest	0.03
03/27/1997	Southwest	0.04
05/27/1997	Southwest	0.03
08/12/1997	Southwest	0.04
11/17/1997	Southwest	0.03
03/16/1998	Southwest	0.03
05/12/1998	Southwest	0.04
07/27/1998	Southwest	0.04
10/15/1998	Southwest	0.02
02/18/1999	Southwest	0.05
05/24/1999	Southwest	0.03
08/27/1999	Southwest	0.03
10/26/1999	Southwest	0.03
02/03/2000	Southwest	0.047
06/20/2000	Southwest	0.035
09/28/2000	Southwest	0.034
12/17/2000	Southwest	0.032
03/23/2001	Southwest	0.034
06/21/2001	Southwest	0.032
09/23/2001	Southwest	0.029
12/31/2001	Southwest	0.043
03/21/2002	Southwest	0.038
04/17/2002	Southwest	0.031
08/12/2002	Southwest	0.032
12/06/2002	Southwest	0.020
01/29/2003	Southwest	0.027
05/23/2003	Southwest	0.039
09/04/2003	Southwest	0.033
11/20/2003	Southwest	0.029
02/02/2004	Southwest	0.043
05/14/2004	Southwest	0.037
09/02/2004	Southwest	0.027
11/04/2004	Southwest	0.034
02/08/2005	Southwest	0.061
05/09/2005	Southwest	0.08
08/11/2005	Southwest	0.06

Table 3

Groundwater Gradient Data

ARCO Service Station #0374
6407 Telegraph Ave., Oakland, CA

NOTES:
The data within this table collected prior to August 2002 was provided to URS by RM and its 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 # 050811-DW-1 Date 8-11-05 Client Arco 374

Site 6407 Telegraph 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-1	4					7.36	26.75		
mw-2	4					7.85	26.35		
mw-3	4					6.77	26.78		
mw-4	4					7.96	26.97		
mw-5	4					8.39	25.05		
mw-6	4					5.02	14.65		

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-DW-1	Station # 374
Sampler: DW	Date: 8-11-05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.75	Depth to Water: 7.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

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

Sampling Method:
- Bailer
- X 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.

12.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 37.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1503	67.5	6.7	958	12.6	
1506	67.0	6.6	993	25.2	
1509	66.3	6.6	982	37.8	

Did well dewater? Yes (No) Gallons actually evacuated: 37.8

Sampling Time: 1514 Sampling Date: 8-11-05

Sample I.D.: MW-1 Laboratory: Pace (Sequoia) Other _____

Analyzed for: (GRO) (BTEX) MTBE DRO Other: See SOW

D.O. (if req'd):	Pre-purge:		mg/L	(Post-purge):	0.8 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-DW-1	Station # 374
Sampler: DW	Date: 8-11-05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.35	Depth to Water: 7.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

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

Sampling Method:
- Bailer
- X 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.

12 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 36 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1417	70.7	6.4	665	12	
1415	71.6	6.5	661	24	
1418	70.9	6.6	653	36	

Did well dewater? Yes (No)		Gallons actually evacuated: 36	
Sampling Time: 1423		Sampling Date: 8-11-05	
Sample I.D.: MW-2		Laboratory: Pace (Sequoia) Other ____	
Analyzed for: (GRO) (BTEX) MTBE DRO		Other: See SOW	
D.O. (if req'd):	Pre-purge: ____ mg/L	(Post-purge):	1.0 mg/L
O.R.P. (if req'd):	Pre-purge: ____ mV	Post-purge:	____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-DW-1	Station # 374
Sampler: DW	Date: 8-11-05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 26.78	Depth to Water: 6.77
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) 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
- X Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- X 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.

13 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 39 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1337	70.0	6.6	647	13	
1340	68.9	6.4	707	26	
	well dewatered @ 29 gl.			DTW = 24.90	
1347	68.1	6.5	828	-	DTW = 21.80

Did well dewater? (Yes) No — Gallons actually evacuated: 29

Sampling Time: 1347 — Sampling Date: 8-11-05

Sample I.D.: MW-3 — Laboratory: Pace (Sequoia) Other ___

Analyzed for: (GRO) (BTEX) MTBE DRO — Other: See SOW

D.O. (if req'd):	Pre-purge:		mg/L	(Post-purge)	1.9 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-DW-1	Station # 374
Sampler: DW	Date: 8-11-05
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.97	Depth to Water: 7.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) 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
- X Electric Submersible
- Extraction Pump
- Other: _____

Sampling Method:
- Bailer
- X 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.

12.4 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 37.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1429	67.6	6.5	1051	12.4	odor
1432	67.1	6.5	1157	24.8	"
1434	66.5	6.5	1180	37.2	"

Did well dewater? Yes (No)		Gallons actually evacuated: 37.2		
Sampling Time: 1439		Sampling Date: 8-11-05		
Sample I.D.: MW-4		Laboratory: Pace (Sequoia) Other____		
Analyzed for: (GRO) (BTEX) MTBE DRO		Other: See SOW		
D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge)	0.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-DW-1	Station # 374
Sampler: DW	Date: 8-11-05
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 23.05	Depth to Water: 8.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

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

Sampling Method:
- Bailer
- X 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.

9.5	x	3	=	28.5 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1310	73.1	6.6	650	9.5	
1312	71.5	6.6	642	19.0	
	well dewatered @ 20 gl			DTW = 21.15	
1320	69.3	6.6	645	—	DTW = 18.15

Did well dewater? (Yes) No		Gallons actually evacuated: 20	
Sampling Time: 1320		Sampling Date: 8-11-05	
Sample I.D.: MW-5		Laboratory: Pace (Sequoia) Other ____	
Analyzed for: (GRO) (BTEX) MTBE DRO		Other: See SOW	
D.O. (if req'd):	Pre-purge: ____ mg/L	(Post-purge):	1.2 mg/L
O.R.P. (if req'd):	Pre-purge: ____ mV	Post-purge:	____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-DW-1	Station # 374
Sampler: DW	Date: 8-11-05
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 14.65	Depth to Water: 5.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

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

Sampling Method:
- Bailer
- X 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.

6.3 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 18.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1356	69.7	6.6	820	6.3	
1358	70.8	6.6	756	12.6	
1400	70.8	6.6	776	18.9	

Did well dewater? Yes (No)		Gallons actually evacuated: 18.9	
Sampling Time: 1405		Sampling Date: 8-11-05	
Sample I.D.: MW-6		Laboratory: Pace (Sequoia) Other ____	
Analyzed for: (GRO) (BTEX) MTBE DRO		Other: See SOW	
D.O. (if req'd): Pre-purge:	mg/L	(Post-purge):	2.1 mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

Chain of Custody Record

Project Name: Analytical for QMR sampling - 374-050911-DW1
BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 374 > HistoricalBL
State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr
Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time:	1230	Temp:	78°
Off-site Time:	1530	Temp:	82°
Sky Conditions:	Sunny		
Meteorological Events:			
Wind Speed:		Direction:	

Lab Name: Sequoia	BP/AR Facility No.: 374	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 6407 Telegraph Ave., Oakland, CA 94609	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.850526 / -122.260	Oakland, CA 94612
Lab PM: Lisa Race / Jamshid Kekobad	California Global ID No.: T0600100106	Consultant/Contractor Project No.: 38487011
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G0C21-0004	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.3280 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Donna_Cosper@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 374

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO / BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: EDB, 1,2-DCA (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1514	8-11		X			3				X		X	X	X	X	
2	MW-2	1423	"		"			1				"		X	X	X	X	
3	MW-3	1347	"		"			"				"		X	X	X	X	
4	MW-4	1439	"		"			"				"		X	X	X	X	
5	MW-5	1320	"		"			"				"		X	X	X	X	
6	MW-6	1405	"		"			↓				↓		X	X	X	X	
7	TB-374-081105	—	↓		↓			2				↓						ON HOLD
8																		
9																		
10																		

Sampler's Name: Dave Walter	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech	David C. Walk	8-11-05	1700	Sample Custodian	8/11	1720
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions:

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

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:

374

Station #

6407 Telegraph Ave Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

179

added equip. rinse water 2

any other adjustments

TOTAL GALS. RECOVERED 181

loaded onto BTS vehicle # 48

BTS event # 050811-DW-1 | time 1520 | date 8 / 11 / 05

signature David C Walt

****

REC'D AT | time | date

____ / ____ / ____

unloaded by signature

bp

WELLHEAD INSPECTION CHECKLIST
BP / GEM

Date 8-11-05

Site Address 6407 Telegraph Ave

Job Number 050811-DW-1 Technician DW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	X							
MW-2	X							
MW-3	X							
MW-4	X							
MW-5	X							
MW-6	X							

NOTES:

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.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

26 August, 2005

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

RE: ARCO #0374, Oakland, CA
Work Order: MOH0683

Enclosed are the results of analyses for samples received by the laboratory on 08/12/05 15:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kekobad

Jamshid Kekobad
Project Manager

CA ELAP Certificate #1210

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOH0683-01	Water	08/11/05 15:14	08/12/05 15:05
MW-2	MOH0683-02	Water	08/11/05 14:23	08/12/05 15:05
MW-3	MOH0683-03	Water	08/11/05 13:47	08/12/05 15:05
MW-4	MOH0683-04	Water	08/11/05 14:39	08/12/05 15:05
MW-5	MOH0683-05	Water	08/11/05 13:20	08/12/05 15:05
MW-6	MOH0683-06	Water	08/11/05 14:05	08/12/05 15:05
TB-374-051105	MOH0683-07	Water	08/11/05 00:00	08/12/05 15:05

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.

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOH0683-01) Water	**Sampled: 08/11/05 15:14**	**Received: 08/12/05 15:05**							
tert-Amyl methyl ether	**2.6**	2.5	ug/l	5	5H23034	08/23/05	08/24/05	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	**250**	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	**390**	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	**4.0**	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**540**	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*60-135*		"	"	"	"	
MW-2 (MOH0683-02) Water	**Sampled: 08/11/05 14:23**	**Received: 08/12/05 15:05**							
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H23034	08/23/05	08/24/05	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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**35**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MOH0683-03) Water Sampled: 08/11/05 13:47 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H23034	08/23/05	08/24/05	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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**11**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*60-135*		"	"	"	"	
MW-4 (MOH0683-04) Water Sampled: 08/11/05 14:39 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	10	ug/l	20	5H25008	08/25/05	08/25/05	EPA 8260B	
Benzene	**1100**	10	"	"	"	"	"	"	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	**160**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**32**	10	"	"	"	"	"	"	
Toluene	**41**	10	"	"	"	"	"	"	
Xylenes (total)	**110**	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**3100**	1000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MOH0683-05) Water Sampled: 08/11/05 13:20 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H25008	08/25/05	08/25/05	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	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84 %*	*60-135*		"	"	"	"	
MW-6 (MOH0683-06) Water Sampled: 08/11/05 14:05 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H23034	08/23/05	08/24/05	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	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**7.9**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*60-135*		"	"	"	"	

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

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 5H23034 - EPA 5030B Modified / EPA 8260B										
Blank (5H23034-BLK1)				Prepared & Analyzed: 08/23/05						
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	*2.55*		"	*2.50*		*102*	*60-135*			
Laboratory Control Sample (5H23034-BS1)				Prepared: 08/23/05 Analyzed: 08/24/05						
tert-Amyl methyl ether	15.9	0.50	ug/l	15.0		106	80-115			
Benzene	5.20	0.50	"	5.16		101	65-115			
tert-Butyl alcohol	178	20	"	143		124	75-150			
Di-isopropyl ether	16.1	0.50	"	15.1		107	75-125			
1,2-Dibromoethane (EDB)	17.3	0.50	"	14.8		117	85-120			
1,2-Dichloroethane	17.3	0.50	"	14.7		118	85-130			
Ethanol	213	100	"	141		151	70-135			HL, IC
Ethyl tert-butyl ether	15.7	0.50	"	15.0		105	75-130			
Ethylbenzene	7.09	0.50	"	7.54		94	75-135			
Methyl tert-butyl ether	7.03	0.50	"	7.02		100	65-125			
Toluene	37.4	0.50	"	37.2		101	85-120			
Xylenes (total)	41.5	0.50	"	41.4		100	85-125			
Gasoline Range Organics (C4-C12)	459	50	"	440		104	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.72*		"	*2.50*		*109*	*60-135*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

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 5H23034 - EPA 5030B Modified / EPA 8260B										
Matrix Spike (5H23034-MS1)	**Source: MOH0683-01**			Prepared: 08/23/05 Analyzed: 08/24/05						
tert-Amyl methyl ether	90.6	2.5	ug/l	75.2	2.6	117	80-115			LM
Benzene	27.0	2.5	"	25.8	ND	105	65-115			
tert-Butyl alcohol	1100	100	"	715	250	119	75-120			
Di-isopropyl ether	85.6	2.5	"	75.7	ND	113	75-125			
1,2-Dibromoethane (EDB)	92.8	2.5	"	74.2	ND	125	85-120			LM
1,2-Dichloroethane	92.1	2.5	"	73.6	ND	125	85-130			
Ethanol	1760	500	"	707	ND	249	70-135			HL, IC
Ethyl tert-butyl ether	86.0	2.5	"	75.1	ND	115	75-130			
Ethylbenzene	37.2	2.5	"	37.7	2.3	93	75-135			
Methyl tert-butyl ether	529	2.5	"	35.1	390	396	65-125			BB,LM
Toluene	194	2.5	"	186	ND	104	85-120			
Xylenes (total)	218	2.5	"	207	4.0	103	85-125			
Gasoline Range Organics (C4-C12)	2750	250	"	2200	540	100	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.79*		"	*2.50*		*112*	*60-135*			
Matrix Spike Dup (5H23034-MSD1)	**Source: MOH0683-01**			Prepared: 08/23/05 Analyzed: 08/24/05						
tert-Amyl methyl ether	87.3	2.5	ug/l	75.2	2.6	113	80-115	4	15	
Benzene	27.8	2.5	"	25.8	ND	108	65-115	3	20	
tert-Butyl alcohol	1230	100	"	715	250	137	75-120	11	25	LM
Di-isopropyl ether	86.0	2.5	"	75.7	ND	114	75-125	0.5	15	
1,2-Dibromoethane (EDB)	90.6	2.5	"	74.2	ND	122	85-120	2	15	LM
1,2-Dichloroethane	89.1	2.5	"	73.6	ND	121	85-130	3	20	
Ethanol	1880	500	"	707	ND	266	70-135	7	35	HL, IC
Ethyl tert-butyl ether	83.4	2.5	"	75.1	ND	111	75-130	3	25	
Ethylbenzene	37.8	2.5	"	37.7	2.3	94	75-135	2	15	
Methyl tert-butyl ether	503	2.5	"	35.1	390	322	65-125	5	20	BB,LM
Toluene	196	2.5	"	186	ND	105	85-120	1	20	
Xylenes (total)	220	2.5	"	207	4.0	104	85-125	0 9	20	
Gasoline Range Organics (C4-C12)	2750	250	"	2200	540	100	70-124	0	20	
Surrogate: 1,2-Dichloroethane-d4	*2.72*		"	*2.50*		*109*	*60-135*			

Sequoia Analytical

1885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

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 5H25008 - EPA 5030B P/T / EPA 8260B										
Blank (5H25008-BLK1)				Prepared & Analyzed: 08/25/05						
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	*2.04*		"	*2.50*		*82*	*60-135*			
Blank (5H25008-BLK2)				Prepared & Analyzed: 08/25/05						
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	*2.01*		"	*2.50*		*80*	*60-135*			

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

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 5H25008 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (5H25008-BS1)				Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	8.20	0.50	ug/l	7.52		109	80-115			
Benzene	2.77	0.50	"	2.58		107	65-115			
tert-Butyl alcohol	70.1	20	"	71.5		98	75-150			
Di-isopropyl ether	8.23	0.50	"	7.57		109	75-125			
1,2-Dibromoethane (EDB)	8.78	0.50	"	7.42		118	85-120			
1,2-Dichloroethane	8.26	0.50	"	7.36		112	85-130			
Ethanol	70.2	100	"	70.7		99	70-135			
Ethyl tert-butyl ether	8.21	0.50	"	7.51		109	75-130			
Ethylbenzene	4.06	0.50	"	3.77		108	75-135			
Methyl tert-butyl ether	3.85	0.50	"	3.51		110	65-125			
Toluene	19.5	0.50	"	18.6		105	85-120			
Xylenes (total)	22.6	0.50	"	20.7		109	85-125			
Gasoline Range Organics (C4-C12)	261	50	"	220		119	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.10*		"	*2.50*		*84*	*60-135*			
Laboratory Control Sample (5H25008-BS2)				Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	8.04	0.50	ug/l	7.52		107	80-115			
Benzene	2.68	0.50	"	2.58		104	65-115			
tert-Butyl alcohol	74.1	20	"	71.5		104	75-150			
Di-isopropyl ether	7.86	0.50	"	7.57		104	75-125			
1,2-Dibromoethane (EDB)	8.55	0.50	"	7.42		115	85-120			
1,2-Dichloroethane	7.84	0.50	"	7.36		107	85-130			
Ethanol	102	100	"	70.7		144	70-135			HL
Ethyl tert-butyl ether	8.02	0.50	"	7.51		107	75-130			
Ethylbenzene	3.83	0.50	"	3.77		102	75-135			
Methyl tert-butyl ether	3.76	0.50	"	3.51		107	65-125			
Toluene	19.0	0.50	"	18.6		102	85-120			
Xylenes (total)	22.6	0.50	"	20.7		109	85-125			
Gasoline Range Organics (C4-C12)	247	50	"	220		112	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.06*		"	*2.50*		*82*	*60-135*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

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 5H25008 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (5H25008-MS1)	**Source: MOH0687-02**			Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	84.7	5.0	ug/l	75.2	ND	113	80-115			
Benzene	34.7	5.0	"	25.8	16	72	65-115			
tert-Butyl alcohol	761	200	"	715	ND	106	75-120			
Di-isopropyl ether	81.0	5.0	"	75.7	ND	107	75-125			
1,2-Dibromoethane (EDB)	90.1	5.0	"	74.2	ND	121	85-120			LM
1,2-Dichloroethane	82.3	5.0	"	73.6	ND	112	85-130			
Ethanol	1280	1000	"	707	ND	181	70-135			HL
Ethyl tert-butyl ether	84.7	5.0	"	75.1	ND	113	75-130			
Ethylbenzene	198	5.0	"	37.7	170	74	75-135			LN
Methyl tert-butyl ether	65.7	5.0	"	35.1	27	110	65-125			
Toluene	201	5.0	"	186	7.9	104	85-120			
Xylenes (total)	234	5.0	"	207	14	106	85-125			
Gasoline Range Organics (C4-C12)	6380	500	"	2200	4100	104	70-124			
Surrogate: 1,2-Dichloroethane-d4	*2.12*		"	*2.50*		*85*	*60-135*			
Matrix Spike Dup (5H25008-MSD1)	**Source: MOH0687-02**			Prepared & Analyzed: 08/25/05						
tert-Amyl methyl ether	85.3	5.0	ug/l	75.2	ND	113	80-115	0.7	15	
Benzene	34.7	5.0	"	25.8	16	72	65-115	0	20	
tert-Butyl alcohol	785	200	"	715	ND	110	75-120	3	25	
Di-isopropyl ether	82.6	5.0	"	75.7	ND	109	75-125	2	15	
1,2-Dibromoethane (EDB)	87.8	5.0	"	74.2	ND	118	85-120	3	15	
1,2-Dichloroethane	83.7	5.0	"	73.6	ND	114	85-130	2	20	
Ethanol	1250	1000	"	707	ND	177	70-135	2	35	HL
Ethyl tert-butyl ether	84.4	5.0	"	75.1	ND	112	75-130	0.4	25	
Ethylbenzene	199	5.0	"	37.7	170	77	75-135	0.5	15	
Methyl tert-butyl ether	65.3	5.0	"	35.1	27	109	65-125	0.6	20	
Toluene	205	5.0	"	186	7.9	106	85-120	2	20	
Xylenes (total)	235	5.0	"	207	14	107	85-125	0.4	20	
Gasoline Range Organics (C4-C12)	6450	500	"	2200	4100	107	70-124	1	20	
Surrogate: 1,2-Dichloroethane-d4	*2.14*		"	*2.50*		*86*	*60-135*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MOH0683
1333 Broadway, Suite 800	Project Number:G0C21-0004	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	08/26/05 18:26

Notes and Definitions

LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
LM	MS and/or MSD above acceptance limits. See Blank Spike(LCS).
IC	Calib. verif. is within method limits but outside contract limits
HL	Analyte recovery above established limit
BB,LM	Sample > 4x spike concentration. MS and/or MSD above acceptance limits. See Blank Spike(LCS).
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

Page 1 of 1

Project Name: Analytical for QMR sampling - 374-050811-DW1

BP BU/AR Region/Enfos Segment: BP > Americas > West Coast > Retail > WCBU > CA > Central > 374 > HistoricalBL

State or Lead Regulatory Agency: California Regional Water Quality Control Board - San Fr

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

On-site Time:	1230	Temp:	78°
Off-site Time:	1530	Temp:	82°
Sky Conditions:	Sunny		
Metcorological Events:			
Wind Speed:		Direction:	

Lab Name: Sequoia	BP/AR Facility No.: 374	Consultant/Contractor: URS
Address: 885 Jarvis Drive	BP/AR Facility Address: 6407 Telegraph Ave., Oakland, CA 94609	Address: 1333 Broadway, Suite 800
Morgan Hill, CA 95037	Site Lat/Long: 37.850526 / -122.260	Oakland, CA 94612
Lab PM: Lisa Race / Jamshid Kekobad	California Global ID No.: T0600100106	Consultant/Contractor Project No.: 38487011
Tele/Fax: 408.782.8156 / 408.782.6308	Enfos Project No.: G0C21-0004	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Provision or RCOP: Provision	Tele/Fax: 510.874.3280 / 510.874.3268
Address: P.O. Box 6549	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Moraga, CA 94570	Sub Phase/Task: 03 - Analytical	E-mail EDD To: Donna_Cosper@urscorp.com
Tele/Fax: 925.299.8891 / 925.299.8872	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 374

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO / BTEX (8260)	Requested Analysis: MTBE, TAME, ETBE, DIPE, TBA (8260)	Requested Analysis: EDB, 1,2-DCA (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1514	8-11		X		01	3				X		X	X	X	X	
2	MW-2	1423	"		"		02	"				"		X	X	X	X	
3	MW-3	1347	"		"		03	"				"		X	X	X	X	
4	MW-4	1439	"		"		04	"				"		X	X	X	X	
5	MW-5	1320	"		"		05	"				"		X	X	X	X	
6	MW-6	1405	"		"		06	"				"		X	X	X	X	
7	TB-374-081105	—	"		"		07	2				"						ON HOLD
8																		
9																		
10																		

Sampler's Name: Dave Walter	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech	David G. Walter / Blaine Tech Sample Collection	8-11-05	1700	Sample Collection	8/11	1700
Shipment Date:	Grains		0900		8/12/05	900
Shipment Method:		8/12/05	1505		8/12/05	1505
Shipment Tracking No:						

Special Instructions:

Custody Seals In Place Yes X No Temp Blank Yes X No Cooler Temperature on Receipt 6.0 °F/C Trip Blank Yes X No

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC. BY (PRINT): E-Fallin
WORKORDER: MOH0683

DATE REC'D AT LAB: 8/12/05
TIME REC'D AT LAB: 1505
DATE LOGGED IN: 8/19/05

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent Intact / Broken*	01	A-C	MW-1	40ml VOA (3)	HCl	—	L	8/12/05	
		02		MW-2						
2. Chain-of-Custody	Present / Absent*	03		MW-3						
3. Traffic Reports or Packing List:	Present / Absent	04		MW-4						
		05		MW-5						
4. Airbill:	Airbill / Sticker Present / Absent	06		MW-6						
		07	A/B	TB-374-081105	VOA (2)					
5. Airbill #:										
6. Sample Labels:	Present / Absent									
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody									
8. Sample Condition:	Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No*									
10. Sample received within hold time?	Yes / No*									
11. Adequate sample volume received?	Yes / No*									
12. Proper preservatives used?	Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No*									
14. Read Temp: 6.0°C Corrected Temp: 6.0°C Is corrected temp 4 +/-2°C?	Yes / No**									

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

EBF 8/12/05

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

ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

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Submittal Title: 3Q 2005 QMR EDF BP/ARCO 374
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

ARCO # 00374
6407 TELEGRAPH AVE
OAKLAND, CA 94609

Regional Board - Case #: 01-0114
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 3884
ALAMEDA COUNTY LOP - **(RWS)**

CONF #	TITLE	QUARTER
9786045014	3Q 2005 QMR EDF BP/ARCO 374	Q3 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	9/16/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	5
# 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%	N

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%	N

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

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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ARCO # 00374
6407 TELEGRAPH AVE
OAKLAND, CA 94609

Regional Board - Case #: 01-0114
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**

Local Agency (lead agency) - Case #: 3884
ALAMEDA COUNTY LOP - **(RWS)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	5
# 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%	N
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%	N

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

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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