



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
ARCO Service Station #374
6407 Telegraph Avenue
Oakland, California
ACEH Case #3884



Alameda County
JUL 05 2005
Environmental Health

I declare that, to the best of my knowledge at the present time, 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, 2nd Floor
Alameda, CA 94502

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

Atameda County
JUL 05 2005
Environmental Health


Dear Ms. Drogas:

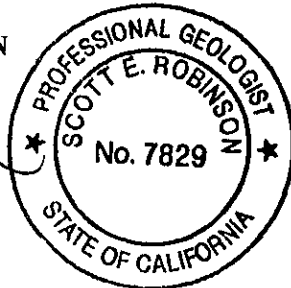
On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Second Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #0374, located at 6407 Telegraph Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION


Scott Robinson, P.G.
Project Manager



Enclosure: Second Quarter 2005 Groundwater Monitoring Report

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

Date: June 22, 2005
Quarter: 2Q 05

SECOND 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 (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.

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: 4.52 (MW-6) to 8.19 (MW-5) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.08 feet per foot

DISCUSSION:

One well (MW-1) was sampled during the second quarter. Gasoline range organics, methyl-tert-butyl ether and xylenes were detected at or above their respective laboratory reporting limits at concentrations of 540 micrograms per liter ($\mu\text{g/L}$), 620 $\mu\text{g/L}$, and 5.5 $\mu\text{g/L}$, respectively. No other constituents were detected at or above their respective laboratory reporting limits.

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

REPORT

**SECOND QUARTER 2005
GROUNDWATER MONITORING
REPORT**

ARCO SERVICE STATION #0374
6407 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

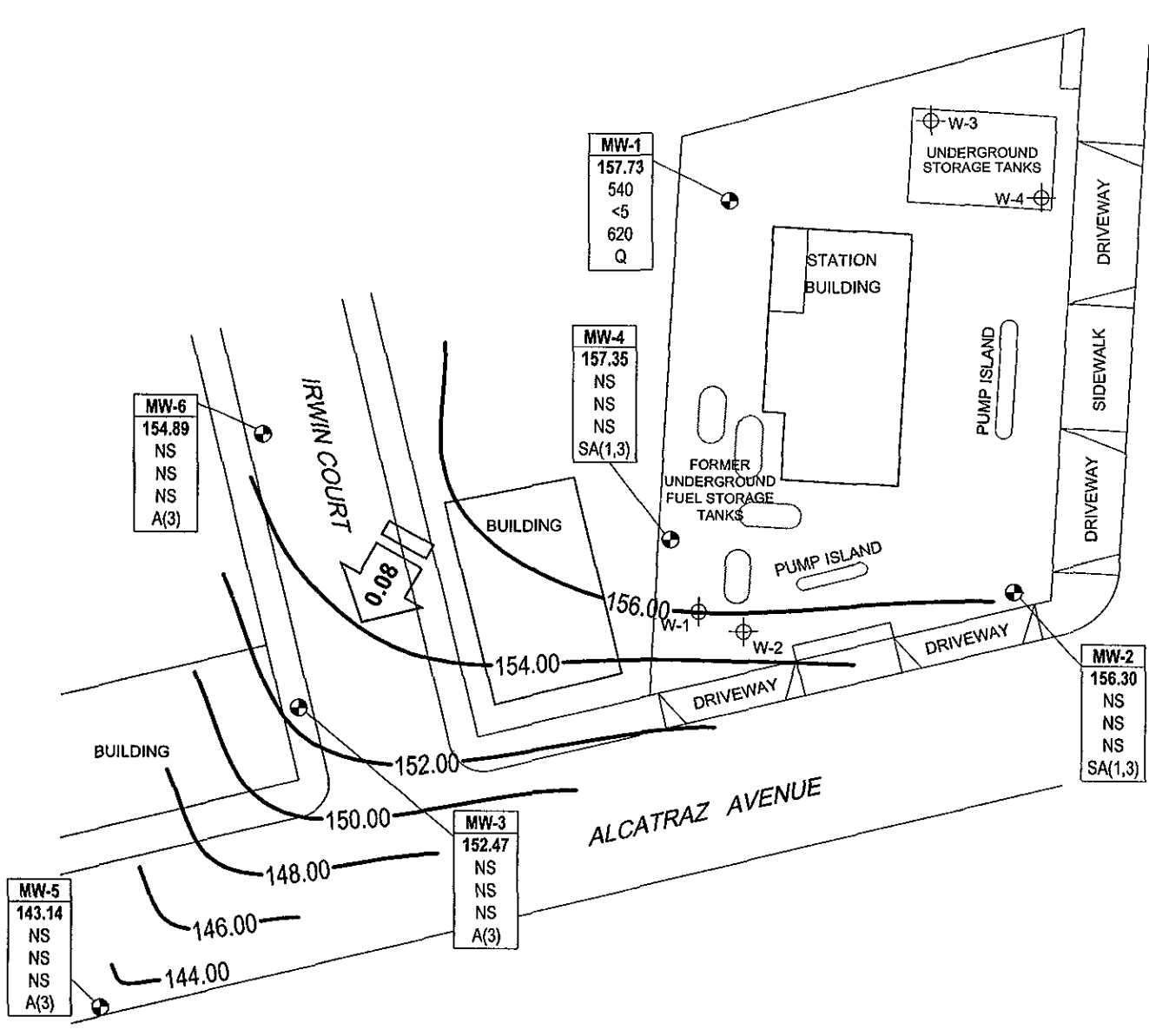
Prepared for
RM

June 22, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Jun 13, 2005 - 2:28pm
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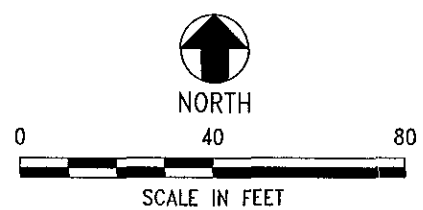


LEGEND

- MONITORING WELL
- TANK PIT MONITORING WELL

Well	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION
GRO	GRO, BENZENE & MTBE CONCENTRATIONS IN GROUNDWATER (µg/L)
Benzene	
MTBE	
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

- APPROXIMATE GROUNDWATER FLOW AND DIRECTION (FT/FT)
- 145.00 GROUNDWATER ELEVATION CONTOUR (FT/MSL)



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

URS	Project No. 38487164	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE 1
	ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California		

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	1.7	6.7
	02/02/2004	P		164.57	7.00	27.00	6.71	157.86	2,700	<25	<25	<25	<25	1,200	1.0	9.0
05/14/2004	P		164.57	7.00	27.00	7.08	157.49	<2,500	<25	<25	<25	<25	1,200	1.4	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	3.8	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	
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	--	--	--	--	--	--	--	--
1/29/2003	--	b	157.92	7.00	27.00	7.22	150.70	--	--	--	--	--	--	--	--	

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	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	1.1	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	2.7	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	--	--	--	--	--	--	--	--
	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	9.3	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	--	--	--	--	--	--	--	--	
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	--	--

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	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	1.4	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	2.4	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	--	--	--	--	--	--	--	--
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
	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	--	--	--	--	--	--	--	--

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	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	3.5	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	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--	

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 = Not Purged
P = Purge
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

FOOTNOTES:

a = 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 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.

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
	02/02/2004	<5,000	<1,000	1,200	<25	<25	<25	<25	<25	
	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
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	
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	
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	
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	
MW-6	5/23/2003	<100	<20	9.4	<0.50	<0.50	<0.50	--	--	

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
1/31/1996	Southwest	0.04
4/10/1996	Southwest	0.04
7/16/1996	Southwest	0.03
10/14/1996	Southwest	0.03
3/27/1997	Southwest	0.04
5/27/1997	Southwest	0.03
8/12/1997	Southwest	0.04
11/17/1997	Southwest	0.03
3/16/1998	Southwest	0.03
5/12/1998	Southwest	0.04
7/27/1998	Southwest	0.04
10/15/1998	Southwest	0.02
2/18/1999	Southwest	0.05
5/24/1999	Southwest	0.03
8/27/1999	Southwest	0.03
10/26/1999	Southwest	0.03
2/3/2000	Southwest	0.047
6/20/2000	Southwest	0.035
9/28/2000	Southwest	0.034
12/17/2000	Southwest	0.032
3/23/2001	Southwest	0.034
6/21/2001	Southwest	0.032
9/23/2001	Southwest	0.029
12/31/2001	Southwest	0.043
3/21/2002	Southwest	0.038
4/17/2002	Southwest	0.031
8/12/2002	Southwest	0.032
12/6/2002	Southwest	0.020
1/29/2003	Southwest	0.027
5/23/2003	Southwest	0.039
9/4/2003	Southwest	0.033
11/20/2003	Southwest	0.029
2/2/2004	Southwest	0.043
5/14/2004	Southwest	0.037
9/2/2004	Southwest	0.027
11/4/2004	Southwest	0.034
2/8/2005	Southwest	0.061
5/9/2005	Southwest	0.08

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 # 050509-w-2 Date 5/19/05 Client ORB @ 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					6.84	26.73	
MW-2	4					7.16	26.31	
MW-3	4					6.74	26.79	
MW-4	4					5.97	26.93	
MW-5	4					8.19	27.05	
MW-6	4					4.52	14.61	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050509-wc-3</u>	Station # <u>374</u>
Sampler: <u>wc</u>	Date: <u>5/9/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>26.73</u>	Depth to Water: <u>6.84</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <u>Bailer</u> <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>12.9</u>	x	<u>3</u>	=	<u>38.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1530</u>	<u>64.8</u>	<u>6.8</u>	<u>924</u>	<u>13</u>	<u>cloudy</u>
<u>1533</u>	<u>64.0</u>	<u>6.6</u>	<u>961</u>	<u>26</u>	<u>clearing</u>
<u>1536</u>	<u>64.2</u>	<u>6.6</u>	<u>931</u>	<u>39</u>	<u>clear</u>

Did well dewater? Yes <u>NO</u>	Gallons actually evacuated: <u>39</u>	
Sampling Time: <u>1540</u>	Sampling Date: <u>5/9/05</u>	
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: GRO BTEX MTBE DRO	Other: <u>See CO2</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>3.12</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 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:

39 gallons

added equip. rinse water

1 gal

any other adjustments

/

TOTAL GALS. RECOVERED

40

loaded onto BTS vehicle #

22

BTS event #

050509-WC-3

time

1545

date

5/9/05

signature

Will Crow

RECD AT

Blaine Tech

time

1700

date

5/9/05

unloaded by

signature

Will Crow

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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



25 May, 2005

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

RE: ARCO #0374, Oakland, CA
Work Order: MOE0426

Enclosed are the results of analyses for samples received by the laboratory on 05/10/05 15:22. 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 #0374, Oakland, CA Project Number: G0C21-0004 Project Manager: Scott Robinson	MOE0426 Reported: 05/25/05 17:21
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ANALYTICAL REPORT FOR SAMPLES

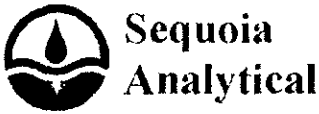
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOE0426-01	Water	05/09/05 15:40	05/10/05 15:22
TB-374-050905	MOE0426-02	Water	05/09/05 00:00	05/10/05 15:22

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

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0374, Oakland, CA Project Number: G0C21-0004 Project Manager: Scott Robinson	MOE0426 Reported: 05/25/05 17:21
---	---	--

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOE0426-01) Water Sampled: 05/09/05 15:40 Received: 05/10/05 15:22									
tert-Amyl methyl ether	ND	5.0	ug/l	10	5E18011	05/18/05	05/18/05	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	620	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	5.5	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	540	500	"	"	"	"	"	"	PV
Surrogate: 1,2-Dichloroethane-d4		98 %		60-135	"	"	"	"	



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

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0004
Project Manager: Scott Robinson

MOE0426
Reported:
05/25/05 17:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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			
Toluene	9.84	0.50	"	10.0		98	85-120			
Xylenes (total)	31.2	0.50	"	30.0		104	85-125			
Surrogate: 1,2-Dichloroethane-d4	5.02		"	5.00		100	60-135			

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

 Project: ARCO #0374, Oakland, CA
 Project Number: G0C21-0004
 Project Manager: Scott Robinson

 MOE0426
 Reported:
 05/25/05 17:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E18011 - EPA 5030B P/T / EPA 8260B

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			
Surrogate: 1,2-Dichloroethane-d4	4.96		"	5.00		99	60-135			

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	
Surrogate: 1,2-Dichloroethane-d4	4.58		"	5.00		92	60-135			

Matrix Spike (5E18011-MS1)										
										Prepared & Analyzed: 05/18/05
Source: MOE0564-03										
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			
Surrogate: 1,2-Dichloroethane-d4	4.46		"	5.00		89	60-135			

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

Project: ARCO #0374, Oakland, CA
Project Number: G0C21-0004
Project Manager: Scott Robinson

MOE0426
Reported:
05/25/05 17:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E18011 - EPA 5030B P/T / EPA 8260B

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	
Surrogate: 1,2-Dichloroethane-d4	4.88		"	5.00		98	60-135			

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

Project:ARCO #0374, Oakland, CA
Project Number:G0C21-0004
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MOE0426
Reported:
05/25/05 17:21

Notes and Definitions

PV Hydrocarbon result partly due to individ. peak(s) in quant. range
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 > 374 > Historical/BL
 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: 1515 Temp: 65°F
 Off-site Time: 1600 Temp: 65°F
 Sky Conditions: Partly Clouds
 Meteorological Events: -
 Wind Speed: 5 mph Direction: NE

Lab Name: Sequoia	BP/AR Facility No.: 374	Consultant/Contractor: URS
Address: 885 Jarvis Drive Morgan Hill, CA 95037	BP/AR Facility Address: 6407 Telegraph Ave., Oakland, CA 94609	Address: 1333 Broadway, Suite 800 Oakland, CA 94612
Lab PM: Lisa Race	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 Moraga, CA 94570	Phase/WBS: 04 - Mon/Remed by Natural Attenuation	Report Type & QC Level: Level 1 with EDF
Tele/Fax: 925.299.8891 / 925.299.8872	Sub Phase/Task: 03 - Analytical	E-mail BDD To: Rachel.Lindvall@urscorp.com
	Cost Element: 05 - Subcontracted Costs	Invoice to: Atlantic Richfield Company

Lab Bottle Order No: 374				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments				
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	ARO/ETEX (\$260)	MIBE, TAMEL, ETBE (\$260)	DDEP, TBA (\$260)	EDB, 1,2-DCA (\$260)	Ethanol (\$260)					
1	MW-1	1510	5/10/05	X			61	3					X	X	X								MOE 0426
2	TB-374-050905	-	↓	↓			62	2															on hold
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Sampler's Name: <u>Will Crow</u>	Relinquished By: <u>Will Crow</u>	Affiliation: <u>Blaine Tech</u>	Date: <u>5/10/05</u>	Time: <u>1400</u>	Accepted By: <u>[Signature]</u>	Affiliation: <u>[Signature]</u>	Date: <u>5/10/05</u>	Time: <u>1400</u>
Sampler's Company: <u>Blaine Tech</u>								
Shipment Date: <u>5/10/05</u>								
Shipment Method: <u>[Signature]</u>								
Shipment Tracking No: <u>[Signature]</u>								

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 _____

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Arco # 374
 REC. BY (PRINT): JAM
 WORKORDER: MOC 04/26

DATE REC'D AT LAB: 5/10/05
 TIME REC'D AT LAB: 1522
 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) <input checked="" type="checkbox"/> Present / Absent <input checked="" type="checkbox"/> Intact / Broken*	11		Arco-1	(3) USA	H-1	—	W	5/9/05	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	62		TB-374-0507205	(2) USA	L	L	L	L	
3. Traffic Reports or Packing List: <input checked="" type="checkbox"/> Present / Absent									
4. Airbill: <input checked="" type="checkbox"/> Airbill / Sticker <input checked="" type="checkbox"/> Present / Absent									
5. Airbill #:									
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent									
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody									
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*									
10. Sample received within hold time? <input checked="" type="checkbox"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*									
12. Proper Preservatives used? <input checked="" type="checkbox"/> Yes / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <input checked="" type="checkbox"/> Yes / No*									
14. Temp Rec. at Lab: <u>6.0°C</u> 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
 *or Problem COC

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

ATTACHMENT C

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

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SUCCESSFUL GEO_WELL CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	6/2/2005 10:15:04 AM

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UPLOADING A GEO_WELL FILE

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**Submittal Title: 2Q 2005 QMR Geo_Well Site
374**

Submittal Date/Time: 6/2/2005 10:20:04 AM

**Confirmation
Number: 3333404362**

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SUCCESSFUL EDF CHECK - NO ERRORS

<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	6/2/2005 10:16:21 AM
<u>GLOBAL ID:</u>	T0600100106
<u>FILE UPLOADED:</u>	ARCO#0374-EDF-MOE0426.zip

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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 # 00374	<u>Regional Board - Case #: 01-0114</u>
6407 TELEGRAPH AVE	SAN FRANCISCO BAY RWQCB (REGION 2) - (BG)
OAKLAND, CA 94609	<u>Local Agency (lead agency) - Case #: 3884</u>
	ALAMEDA COUNTY LOP - (RWS)

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	1
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
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

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Confirmation Number: 5840018808
Date/Time of Submittal: 6/2/2005 10:21:16 AM
Facility Global ID: T0600100106
Facility Name: ARCO # 00374
Submittal Title: 2Q 2005 QMR EDF Site 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
5840018808	2Q 2005 QMR EDF Site 374	Q2 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	6/2/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	1
# FIELD POINTS WITH DETECTIONS	1
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	1
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

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

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
---	---

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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