



December 14, 2005

Mr. Don Hwang
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Alameda County
DEC 20 2005

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

Dear Mr. Hwang:

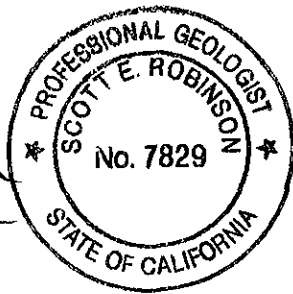
On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #0374, located at 6407 Telegraph Avenue, Oakland, California.

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

Sincerely,

URS CORPORATION

Scott Robinson, P.G.
Project Manager



Enclosure: Fourth Quarter 2005 Groundwater Monitoring Report

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



Atlantic Richfield Company
(a BP affiliated company)

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

December 14, 2005

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

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

Submitted by:

Paul Supple
Environmental Business Manager

Alameda County
DEC 20 2005
Environmental Services

R E P O R T

**FOURTH QUARTER 2005
GROUNDWATER MONITORING
REPORT**

ARCO SERVICE STATION #0374
6407 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

Prepared for
RM

December 14, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: December 14, 2005
Quarter: 4Q 05

FOURTH 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 (Fourth– 2005):

1. Performed the fourth quarter 2005 groundwater monitoring event on November 18, 2005.
2. Prepared and submitted this Fourth Quarter 2005 Groundwater Monitoring Report.

WORK PROPOSED FOR NEXT QUARTER (First– 2006):

1. Perform the first quarter 2006 groundwater monitoring event.
2. Prepare and submit the First Quarter 2006 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: 6.31 (MW-6) to 11.25 (MW-5) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.07 feet per foot

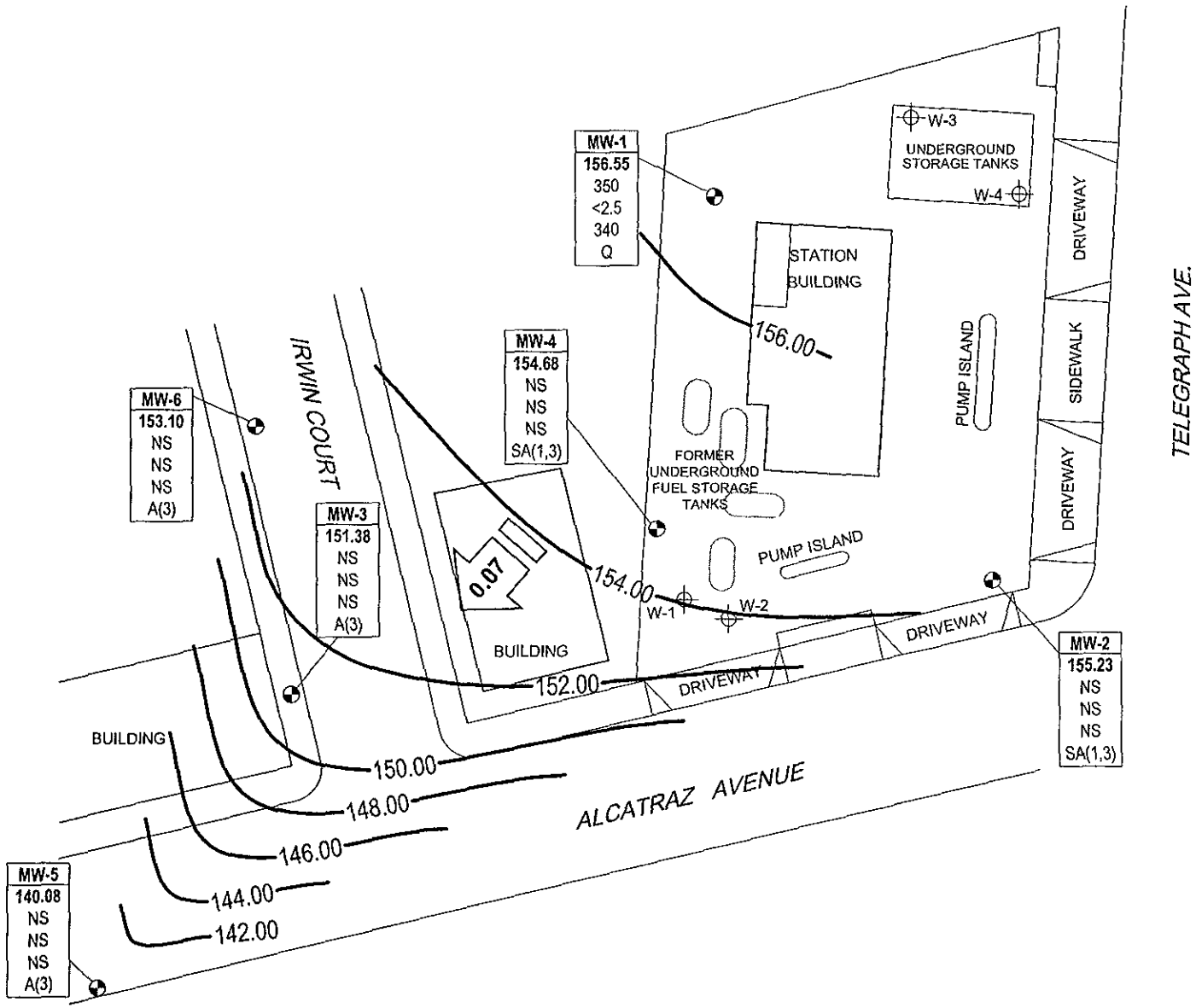
DISCUSSION:

Gasoline range organics and methyl-tert-butyl ether were detected at or above their respective laboratory reporting limits in the only one well (MW-1) sampled this quarter at concentrations of 350 micrograms per liter ($\mu\text{g/L}$) and 340 $\mu\text{g/L}$, respectively. No other constituents were detected at or above their respective laboratory reporting limits.



ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 18, 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

Dec 13, 2005 - 9:54am
 X:\env\waste\BP_GEM\Sites\Scott_Robinson\Paul_Supple\0374\Monitoring\2005 Qtr_4\Drawings\374-1005-GW.dwg





LEGEND

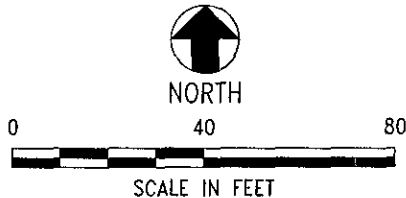
-  MONITORING WELL
-  TANK PIT MONITORING WELL
- | |
|---------|
| Well |
| ELEV |
| GRO |
| Benzene |
| MTBE |
| A/Q/SA |

 WELL DESIGNATION
- | |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |
| A/Q/SA |

 GROUNDWATER ELEVATION
- | |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |
| A/Q/SA |

 GRO, BENZENE & MTBE CONCENTRATIONS IN GROUNDWATER (µg/L)
- | |
|---------|
| ELEV |
| GRO |
| Benzene |
| MTBE |
| A/Q/SA |

 SAMPLING FREQUENCY
- < NOT DETECTED AT OR ABOVE LABORATORY LIMITS
- Q SAMPLED QUARTERLY
- SA(1,3) SAMPLED ANNUALLY, 1ST & 3RD QUARTERS
- A(3) NOT SAMPLED
- NS SAMPLED ANNUALLY, 3RD QUARTER
-  APPROXIMATE GROUNDWATER FLOW AND DIRECTION (FT/FT)
-  GROUNDWATER ELEVATION CONTOUR (FT/MSL)



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



Project No. 38487164
 ARCO Service Station #0374
 6407 Telegraph Avenue
 Oakland, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
 Fourth Quarter 2005 (November 18, 2005)

FIGURE 1

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	--	--	--	--	--	--	1.0	--
	05/14/2004	P		164.57	7.00	27.00	7.08	157.49	<2,500	<25	<25	<25	<25	1,200	1.4	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
	08/11/2005	P		164.57	7.00	27.00	7.36	157.21	540	<2.5	<2.5	<2.5	4.0	390	0.8	6.6
	11/18/2005	P	e	164.57	7.00	27.00	8.02	156.55	350	<2.5	<2.5	<2.5	<2.5	340	2.6	6.7
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	1.1	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	--	--	--	--	--	--	--	--
	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
	11/18/2005	--		163.46	7.00	27.00	8.23	155.23	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--	
08/11/2005	P		159.21	7.00	27.00	6.77	152.44	<50	<0.50	<0.50	<0.50	<0.50	11	1.9	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-3	11/18/2005	--		159.21	7.00	27.00	7.83	151.38	--	--	--	--	--	--	--	--
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	1.4	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	--	--	--	--	--	--	--	--
	08/11/2005	P		163.25	7.00	27.00	7.96	155.29	3,100	1,100	41	160	110	32	0.6	6.5
	11/18/2005	--		163.25	7.00	27.00	8.57	154.68	--	--	--	--	--	--	--	--
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	--	--

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	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	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--
	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	1.2	6.6
	11/18/2005	--		151.33	10.00	23.00	11.25	140.08	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--

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-6	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	2.1	6.6
	11/18/2005	--		159.41	5.00	15.00	6.31	153.10	--	--	--	--	--	--	--	--

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 ft bgs
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Well was not purged prior to sampling
P = Well was purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
BTEX = Benzene, toluene, ethylbenzene and xylenes

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. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

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

Values for DO and pH were obtained through field measurements.

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

The DTW's and TOC's 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
	11/18/2005	<500	<100	340	<2.5	<2.5	<2.5	<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

µg/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 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

Table 3

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

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
8/11/2005	Southwest	0.06
11/18/2005	Southwest	0.07

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 # 05118-ND Date 11/18/05 Client ARW 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 TOG
MW-1	4					8.02	26.71	↓
MW-2	4					8.23	26.27	
MW-3	4					7.83	26.74	
MW-4	4	odor				8.57	26.85	
MW-5	4		*			11.25	23.02	
MW-6	4		*			6.31	14.72	
			* under pressure → let stabilize					
			Eor SWIA					

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>0511E-MJD</u>	Station # <u>374</u>
Sampler: <u>ny</u>	Date: <u>11/18/05</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>2671</u>	Depth to Water: <u>8.02</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>12.1</u>	X	<u>3</u>	=	<u>36.3</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1022</u>	<u>67.6</u>	<u>6.8</u>	<u>877</u>	<u>12.5</u>	<u>Clear</u>
<u>1034</u>	<u>66.2</u>	<u>6.7</u>	<u>882</u>	<u>24.5</u>	<u>↓</u>
<u>1038</u>	<u>66.3</u>	<u>6.7</u>	<u>893</u>	<u>36.5</u>	<u>↓</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>36.5</u>
Sampling Time: <u>1045</u>	Sampling Date: <u>11/18/05</u>
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: GRO BTEX MTBE DRO Oxy's 1,2-DCA EDB Ethanol	Other: <u>See Scope</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>2.0</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, Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

added equip.
rinse water _____

any other
adjustments _____

**TOTAL GALS.
RECOVERED** 37

loaded onto
BTS vehicle # 59

BTS event #

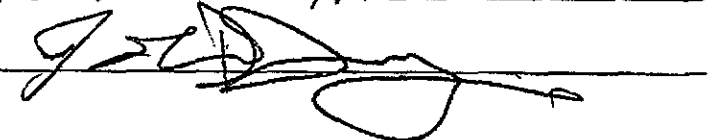
time date

05118-1002

1015

10/18/05

signature



REC'D AT

time

date

unloaded by
signature _____

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.



6 December, 2005

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

RE: ARCO #0374, Oakland, CA
Work Order: MOK0960

Enclosed are the results of analyses for samples received by the laboratory on 11/21/05 09:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

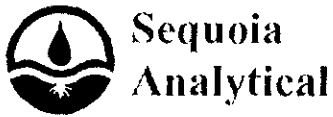
The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies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

URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0374, Oakland, CA Project Number: G0C21-0004 Project Manager: Scott Robinson	MOK0960 Reported: 12/06/05 16:22
---	---	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MOK0960-01	Water	11/18/05 10:45	11/21/05 09:40
TB-374-11182005	MOK0960-02	Water	11/18/05 00:00	11/21/05 09:40

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies. These samples were received with no custody seals.



URS Corporation [Arco] 1333 Broadway, Suite 800 Oakland CA, 94612	Project: ARCO #0374, Oakland, CA Project Number: G0C21-0004 Project Manager: Scott Robinson	MOK0960 Reported: 12/06/05 16:22
---	---	--

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MOK0960-01) Water Sampled: 11/18/05 10:45 Received: 11/21/05 09:40									
tert-Amyl methyl ether	ND	2.5	ug/l	5	5L01007	12/01/05	12/01/05	EPA 8260B	
Benzene	ND	2.5	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	340	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	350	250	"	"	"	"	"	"	PV
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>77 %</i>	<i>60-135</i>						

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

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

 MOK0960
 Reported:
 12/06/05 16:22

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 5L01007 - EPA 5030B P/T / EPA 8260B
Blank (5L01007-BLK1)

Prepared & Analyzed: 12/01/05

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.41</i>		<i>"</i>	<i>5.00</i>		<i>88</i>	<i>60-135</i>			

Laboratory Control Sample (5L01007-BS1)

Prepared & Analyzed: 12/01/05

tert-Amyl methyl ether	15.0	0.50	ug/l	15.0		100	80-115			
Benzene	5.11	0.50	"	5.16		99	65-115			
tert-Butyl alcohol	169	20	"	143		118	75-150			
Di-isopropyl ether	15.0	0.50	"	15.1		99	75-125			
1,2-Dibromoethane (EDB)	16.6	0.50	"	14.9		111	85-120			
1,2-Dichloroethane	15.5	0.50	"	14.7		105	85-130			
Ethanol	195	100	"	142		137	70-135			IC
Ethyl tert-butyl ether	15.1	0.50	"	15.0		101	75-130			
Ethylbenzene	7.93	0.50	"	7.54		105	75-135			
Methyl tert-butyl ether	6.58	0.50	"	7.02		94	65-125			
Toluene	36.9	0.50	"	37.2		99	85-120			
Xylenes (total)	44.8	0.50	"	41.2		109	85-125			
Gasoline Range Organics (C4-C12)	495	50	"	440		112	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.49</i>		<i>"</i>	<i>5.00</i>		<i>90</i>	<i>60-135</i>			

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

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

 MOK0960
 Reported:
 12/06/05 16:22

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 5L01007 - EPA 5030B P/T / EPA 8260B

Matrix Spike (5L01007-MS1)	Source: MOK0884-09			Prepared & Analyzed: 12/01/05						
tert-Amyl methyl ether	15.8	0.50	ug/l	15.0	0.11	105	80-115			
Benzene	6.36	0.50	"	5.16	0.95	105	65-115			
tert-Butyl alcohol	171	20	"	143	ND	120	75-120			
Di-isopropyl ether	15.8	0.50	"	15.1	ND	105	75-125			
1,2-Dibromoethane (EDB)	17.3	0.50	"	14.9	ND	116	85-120			
1,2-Dichloroethane	15.5	0.50	"	14.7	ND	105	85-130			
Ethanol	204	100	"	142	18	131	70-135			IC
Ethyl tert-butyl ether	15.4	0.50	"	15.0	ND	103	75-130			
Ethylbenzene	52.3	0.50	"	7.54	47	70	75-135			BB, LN
Methyl tert-butyl ether	6.73	0.50	"	7.02	ND	96	65-125			
Toluene	38.9	0.50	"	37.2	1.1	102	85-120			
Xylenes (total)	47.6	0.50	"	41.2	3.5	107	85-125			
Gasoline Range Organics (C4-C12)	1170	50	"	440	710	105	60-140			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.38</i>		<i>"</i>	<i>5.00</i>		<i>88</i>	<i>60-135</i>			

Matrix Spike Dup (5L01007-MSD1)	Source: MOK0884-09			Prepared & Analyzed: 12/01/05						
tert-Amyl methyl ether	14.9	0.50	ug/l	15.0	0.11	99	80-115	6	15	
Benzene	6.54	0.50	"	5.16	0.95	108	65-115	3	20	
tert-Butyl alcohol	168	20	"	143	ND	117	75-120	2	25	
Di-isopropyl ether	15.8	0.50	"	15.1	ND	105	75-125	0	15	
1,2-Dibromoethane (EDB)	16.8	0.50	"	14.9	ND	113	85-120	3	15	
1,2-Dichloroethane	14.4	0.50	"	14.7	ND	98	85-130	7	20	
Ethanol	209	100	"	142	18	135	70-135	2	35	IC
Ethyl tert-butyl ether	15.1	0.50	"	15.0	ND	101	75-130	2	25	
Ethylbenzene	55.1	0.50	"	7.54	47	107	75-135	5	15	
Methyl tert-butyl ether	6.42	0.50	"	7.02	ND	91	65-125	5	20	
Toluene	40.4	0.50	"	37.2	1.1	106	85-120	4	20	
Xylenes (total)	48.1	0.50	"	41.2	3.5	108	85-125	1	20	
Gasoline Range Organics (C4-C12)	1180	50	"	440	710	107	60-140	0.9	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.13</i>		<i>"</i>	<i>5.00</i>		<i>83</i>	<i>60-135</i>			

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

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

MOK0960
Reported:
12/06/05 16:22

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
BB, LN Sample > 4x spike concentration.
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 Fr
 Requested Due Date (mm/dd/yy): 10 Day TAT

On-site Time: <u>0915</u>	Temp: <u>60</u>
Off-site Time: <u>1115</u>	Temp: <u>60</u>
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

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

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	SRO/BTEX (8260)	MTBE, TAME, ETBE DPE, TBA (8260)	EDB, 1,2-DCA (8260)	Ethanol (8260)			
1	<u>MW-1</u>	<u>1045</u>	<u>11/16/05</u>	X			<u>01</u>	<u>N</u>												<u>MOK 0960</u>
2	<u>TB-374-11182005</u>	<u>-</u>	<u>↓</u>	X			<u>02</u>	<u>N</u>												<u>can hold</u>
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name: <u>Jhuda Jony</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>BTS</u>	<u>[Signature]</u>	<u>11/16/05</u>	<u>1342</u>	<u>[Signature]</u>	<u>11/16/05</u>	<u>1342</u>
Shipment Date:	<u>[Signature]</u>	<u>11/16/05</u>	<u>0805</u>	<u>[Signature]</u>	<u>11/16/05</u>	<u>0805</u>
Shipment Method:	<u>[Signature]</u>	<u>11/16/05</u>	<u>0940</u>	<u>[Signature]</u>	<u>12/05</u>	<u>0940</u>
Shipment Tracking No:				<u>M-2</u>		

Special Instructions:

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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): ME
 WORKORDER: MUK-0940

DATE REC'D AT LAB: 11/21/05
 TIME REC'D AT LAB: 9:40
 DATE LOGGED IN: 11-22-05

For Regulatory Purposes?
 DRINKING WATER YES/NO (NO)
 WASTE WATER YES/NO (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*									ME 11/21/05 (A large diagonal line is drawn across the table from the bottom-left to the top-right.)
2. Chain-of-Custody Present/Absent*									
3. Traffic Reports or Packing List: Present/Absent									
4. Airbill: Airbill / Sticker Present/Absent									
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. Tri-Blank / Temp Blank Received? (circle which, if yes) Yes / No*									
14. Read Temp: <u>3.9</u> Corrected Temp: <u>3.9</u> 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

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

ATTACHMENT C

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

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<u>ORGANIZATION NAME:</u>	URS Corporation-Oakland Office
<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	12/13/2005 9:59:49 AM

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UPLOADING A GEO_WELL FILE

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Submittal Title: 4Q 2005 BP/ARCO 374
GOWELL
Submittal Date/Time: 12/13/2005 10:01:43 AM
Confirmation Number: 2771748185

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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>	12/13/2005 10:02:34 AM
<u>GLOBAL ID:</u>	T0600100106
<u>FILE UPLOADED:</u>	ARCO#0374-EDF-MOK0960.zip

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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	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

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%	N	
<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: 7432602941
Date/Time of Submittal: 12/13/2005 10:03:32 AM
Facility Global ID: T0600100106
Facility Name: ARCO # 00374
Submittal Title: 4Q 2005 BP/ARCO 374 EDF
Submittal Type: GW Monitoring Report

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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)
--	--

CONF #	TITLE	QUARTER
7432602941	4Q 2005 BP/ARCO 374 EDF	Q4 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	12/13/2005	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

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

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

<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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