R078

Atlantic Richfield Company
(a BP affiliated company)

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

December 8, 2004

RE: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #374
6407 telegraph Avenue
Oakland, California
URS Project #38486703

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

URS

December 8, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Re: Fourth Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #0374
6407 Telegraph Avenue
Oakland, California
URS Project #38486703

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Groundwater Monitoring Report* for 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
Project Manager

Robert Horwath, R.G.
Portfolio Manager

REGISTERED GEOLOGIST
ROBERT M. HORWATH
NO. 5925
4/05
STATE OF CALIFORNIA

Enclosure: Fourth Quarter 2004 Groundwater Monitoring Report

cc: Mr. Chuck Headlee, California Regional Water Quality Control Board 1515 Clay Street, Suite 1400 Oakland, CA 94612
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

FOURTH QUARTER 2004 GROUNDWATER MONITORING REPORT

ARCO SERVICE STATION #0374
6407 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

Prepared for
RM

December 8, 2004

URS
URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486703

Date: December 8, 2004
Quarter: 4Q 04

RM QUARTERLY 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
Consultant Project No.:			38486703
Primary Agency			Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Fourth– 2004):

1. Prepared and submitted the Third Quarter 2004 Groundwater Monitoring Report.
2. Performed fourth quarter groundwater monitoring event on November 4, 2004.
3. Prepared and submitted this Fourth Quarter 2004 Groundwater Monitoring Report.
4. Removed oxygen releasing compound (ORC) socks from MW-3 and MW-4.

WORK PROPOSED FOR NEXT QUARTER (First– 2005):

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

SITE SUMMARY:

Current Phase of Project:	GW monitoring/sampling
Frequency of Groundwater Sampling:	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:	Natural Attenuation
Approximate Depth to Groundwater:	6.40 (MW-3) to 8.33 (MW-5) feet
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.034 feet per foot

DISCUSSION:

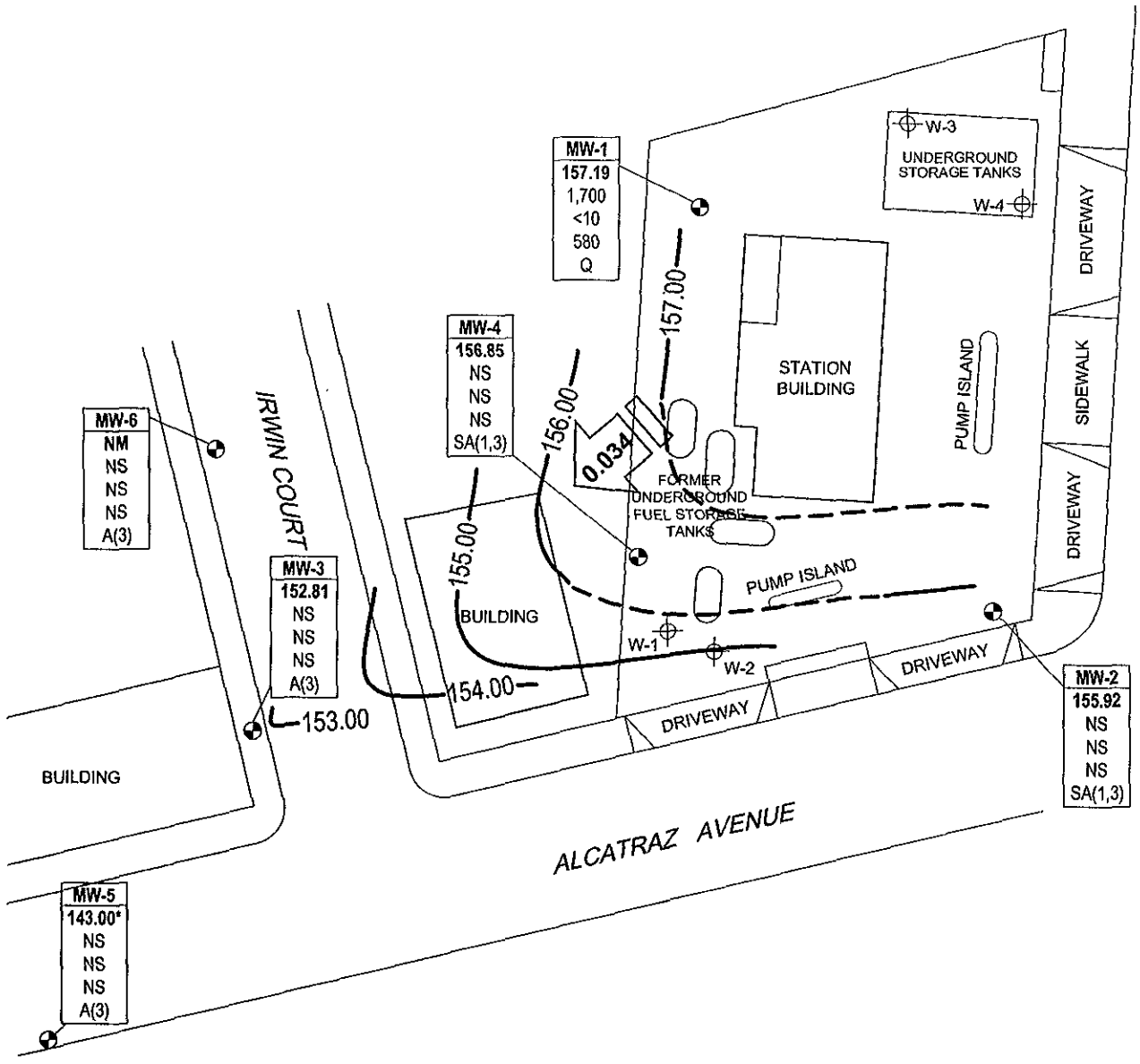
Only well MW-1 was sampled during the fourth quarter. Gasoline range organics (GRO) and methyl tert-butyl ether (MTBE) were detected at or above their laboratory reporting limits in well MW-1 at concentrations of 1,700 µg/L and 580 µg/L, respectively. No other constituents were detected at or above their laboratory reporting limits.

Due to the low concentrations of the constituents of concern, the ORC socks have been permanently removed from wells MW-3 and MW-4.

Due to an oversight, the groundwater gradient was mislabeled in the Third Quarter 2004 Groundwater Monitoring Report. Table 3 (Groundwater Flow Direction and Gradient) has been modified to contain the correct information.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 4, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additives Analytical Data
- Table 3 – Groundwater Flow Direction and Gradient
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment C – Error Check Reports and EDF/Geowell Submittal Confirmations



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/SA — SAMPLING FREQUENCY
- * — NOT USED IN GROUNDWATER ELEVATION CONTOURING
- < — NOT DETECTED AT OR ABOVE LABORATORY LIMITS
- A(3) — SAMPLED ANNUALLY, 3RD QUARTER
- Q — SAMPLED QUARTERLY
- SA(1,3) — SAMPLED ANNUALLY, 1ST & 3RD QUARTERS
- NM — NOT MEASURED
- NS — NOT SAMPLED
- 0.034 — APPROXIMATE GROUNDWATER FLOW AND DIRECTION (FT/FT)
- 153.00 — 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. 38486703 ARCO Service Station #0374 6407 Telegraph Avenue Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Fourth Quarter 2004 (November 4, 2004)	FIGURE 1

Dec 02, 2004 - 10:29am
X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\0374\Monitoring\Qtr. 4, 2004\Drawings\374-4Q04-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	1.7	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**
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	--	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--	--

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	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**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	--	--

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	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**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	--	--	--	--	--	--	--	--
	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**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
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	--	--

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	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**	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

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

ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
ft bgs = feet below ground surface
ft MSL = feet above mean sea level
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in feet above mean sea level
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not Purged
P = Purge
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

FOOTNOTES:
a = 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

NOTES:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. Total petroleum hydrocarbons as gasoline (TPHg) has been changed to gasoline range organics (GRO). The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

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

Values for dissolved oxygen (DO) and pH were obtained through field measurements.

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

Table 2

Fuel Additives Analytical Data

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**	
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	
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	
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

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**

Note:
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 # 041104-BR3 Date 11/4/04 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					7.38	26.72	Toc	
MW-2	4					7.54	26.30		
MW-3	4					6.40*	26.77		
MW-4	4					7.71*	26.95		
MW-5	4					8.33	23.04		
MW-6	4	Unable to Access - Parked Over						→	
*@: Gauged w/ ORCs in well prior to removing.									

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 041104-BA3	Station # 374
Sampler: Brian Alcorn	Date: 11/4/04
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 26.72	Depth to Water: 7.38
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 / (Electric Submersible) / Extraction Pump / Other: ___

Sampling Method: Bailer / (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.

12.5	x	3	=	37.5 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1340	64.2	6.5	853.0	12.5	clear
1343	64.2	6.5	897.0	25.0	"
1346	63.8	6.5	888.9	37.5	"
	Dewatered @ 3 CV				

Did well dewater? (Yes) (No) Gallons actually evacuated: 37.5

Sampling Time: 1348 Sampling Date: 11/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other:

D.O. (if req'd):	Pre-purge:	mg/L	(Post-purge):	6.0 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:

Station # 374

Station Address 6407 Telegraph, Oakland

Total Gallons Collected From Groundwater Monitoring Wells: 38

added equip. rinse water ______ any other adjustments ______

TOTAL GALS. RECOVERED 38 loaded onto BTS vehicle # 58

BTS event # 041104-BA3 time 1415 date 11/4/04

signature [signature]

****

REC'D AT ______ time ______ date __/__/__

unloaded by signature ______

ATTACHMENT B

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

LABORATORY PROCEDURES

Laboratory Procedures

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

Sequoia
Analytical

885 Jarvis Drive
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FAX (408) 782-6308
www.sequoialabs.com

19 November, 2004

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

RE: ARCO #0374, Oakland, CA
Work Order: MNK0226

Enclosed are the results of analyses for samples received by the laboratory on 11/04/04 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #0374, Oakland, CA	MNK0226
1333 Broadway, Suite 800	Project Number: INTRIM-50419	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	11/19/04 19:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNK0226-01	Water	11/04/04 13:48	11/04/04 17:15
TB-374-11042004	MNK0226-02	Water	11/04/04 13:50	11/04/04 17:15

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.

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MNK0226
1333 Broadway, Suite 800	Project Number:INTRIM-50419	**Reported:**
Oakland CA, 94612	Project Manager:Scott Robinson	11/19/04 19:28

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNK0226-01) Water Sampled: 11/04/04 13:48 Received: 11/04/04 17:15									
tert-Amyl methyl ether	ND	10	ug/l	20	4K17004	11/17/04	11/18/04	EPA 8260B	
Benzene	ND	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	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**580**	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**1700**	1000	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*78-129*		"	"	"	"	

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URS Corporation [Arco]	Project ARCO #0374, Oakland, CA	MNK0226
1333 Broadway, Suite 800	Project Number.INTRIM-50419	**Reported:**
Oakland CA, 94612	Project Manager Scott Robinson	11/19/04 19:28

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 4K17004 - EPA 5030B P/T / EPA 8260B										
Blank (4K17004-BLK1)				Prepared & Analyzed: 11/17/04						
tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0 50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0 50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.39*		"	*5.00*		*108*	*78-129*			
Laboratory Control Sample (4K17004-BS1)				Prepared & Analyzed: 11/17/04						
tert-Amyl methyl ether	11.7	0 50	ug/l	10.0		117	82-140			
Benzene	11 0	0.50	"	10.0		110	69-124			
tert-Butyl alcohol	49.7	20	"	50.0		99	56-131			
Di-isopropyl ether	11.2	0.50	"	10.0		112	76-130			
1,2-Dibromoethane (EDB)	11.6	0 50	"	10.0		116	77-132			
1,2-Dichloroethane	12.7	0.50	"	10.0		127	77-136			
Ethanol	186	100	"	200		93	31-143			
Ethyl tert-butyl ether	11.6	0.50	"	10 0		116	81-121			
Ethylbenzene	10.1	0.50	"	10.0		101	84-132			
Methyl tert-butyl ether	12.1	0.50	"	10.0		121	63-137			
Toluene	10.5	0.50	"	10.0		105	78-129			
Xylenes (total)	30.0	0.50	"	30.0		100	83-137			
Surrogate: 1,2-Dichloroethane-d4	*5.60*		"	*5.00*		*112*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project:ARCO #0374, Oakland, CA	MNK0226
1333 Broadway, Suite 800	Project Number:INTRIM-50419	**Reported:**
Oakland CA, 94612	Project Manager Scott Robinson	11/19/04 19:28

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 4K17004 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (4K17004-BS2)				Prepared & Analyzed: 11/17/04						
Benzene	6.18	0 50	ug/l	6 40		97	69-124			
Ethylbenzene	8.03	0 50	"	7.52		107	84-132			
Methyl tert-butyl ether	10 6	0.50	"	9 92		107	63-137			
Toluene	35.8	0.50	"	31.9		112	78-129			
Xylenes (total)	38.5	0 50	"	36.6		105	83-137			
Gasoline Range Organics (C4-C12)	444	50	"	440		101	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.72*		"	*5.00*		*114*	*78-129*			
Laboratory Control Sample Dup (4K17004-BSD1)				Prepared & Analyzed: 11/17/04						
tert-Amyl methyl ether	9.24	0 50	ug/l	10.0		92	82-140	23	20	BA
Benzene	9.78	0.50	"	10 0		98	69-124	12	20	
tert-Butyl alcohol	50 7	20	"	50 0		101	56-131	2	20	
Di-isopropyl ether	9.01	0.50	"	10.0		90	76-130	22	20	BA
1,2-Dibromoethane (EDB)	8.70	0.50	"	10.0		87	77-132	29	20	BA
1,2-Dichloroethane	8.63	0.50	"	10 0		86	77-136	38	20	BA
Ethanol	155	100	"	200		78	31-143	18	20	
Ethyl tert-butyl ether	9.30	0.50	"	10.0		93	81-121	22	20	BA
Ethylbenzene	11.0	0.50	"	10.0		110	84-132	9	20	
Methyl tert-butyl ether	8.34	0.50	"	10.0		83	63-137	37	20	BA
Toluene	9.88	0.50	"	10 0		99	78-129	6	20	
Xylenes (total)	33 0	0.50	"	30.0		110	83-137	10	20	
Surrogate: 1,2-Dichloroethane-d4	*4 25*		"	*5.00*		*85*	*78-129*			
Matrix Spike (4K17004-MS1)	**Source: MNK0449-03**			Prepared & Analyzed: 11/17/04						
Benzene	27.2	2.5	ug/l	32.0	ND	85	69-124			
Ethylbenzene	42.9	2.5	"	37.6	ND	114	84-132			
Methyl tert-butyl ether	123	2.5	"	49.6	130	NR	63-137			LN
Toluene	161	2.5	"	160	ND	101	78-129			
Xylenes (total)	209	2.5	"	183	ND	114	83-137			
Gasoline Range Organics (C4-C12)	1850	250	"	2200	150	77	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.24*		"	*5.00*		*85*	*78-129*			

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URS Corporation [Arco]	Project.ARCO #0374, Oakland, CA	MNK0226
1333 Broadway, Suite 800	Project Number:INTRIM-50419	**Reported:**
Oakland CA, 94612	Project Manager.Scott Robinson	11/19/04 19:28

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 4K17004 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (4K17004-MSD1)	**Source: MNK0449-03**			Prepared & Analyzed: 11/17/04						
Benzene	27.2	2.5	ug/l	32.0	ND	85	69-124	0	20	
Ethylbenzene	40.7	2.5	"	37.6	ND	108	84-132	5	20	
Methyl tert-butyl ether	141	2.5	"	49.6	130	22	63-137	14	20	LN
Toluene	150	2.5	"	160	ND	94	78-129	7	20	
Xylenes (total)	202	2.5	"	183	ND	110	83-137	3	20	
Gasoline Range Organics (C4-C12)	1830	250	"	2200	150	76	70-124	1	20	
Surrogate: 1,2-Dichloroethane-d4	*4.84*		"	*5.00*		*97*	*78-129*			

Sequoia Analytical

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

URS Corporation [Arco]	Project ARCO #0374, Oakland, CA	MNK0226
1333 Broadway, Suite 800	Project Number.INTRIM-50419	**Reported:**
Oakland CA, 94612	Project Manager.Scott Robinson	11/19/04 19:28

Notes and Definitions

LN	MS and/or MSD below acceptance limits. See Blank Spike(LCS).
BA	Relative percent difference out of control
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

MDK 6226

Project Name: 374 GWM
BP BU/GEM CO Portfolio: Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy): 14 day TAT

Date: 11/4/04

On-site Time: 1245 Temp: 65
Off-site Time: 1415 Temp: 65
Sky Conditions: overcast / rain
Meteorological Events:
Wind Speed: — Direction:

Send To:	
Lab Name:	SEQUOIA
Lab Address:	885 Jarvis Dr.
	Morgan Hill, CA 95037
Lab PM:	Lisa Race
Tele/Fax:	408-776-9600 / 408-782-6308
Report Type & QC Level:	1 Send EDF Reports
BP/GEM Account No.:	

BP/GEM Facility No.:	ARCO 374
BP/GEM Facility Address:	6407 TELEGRAPH AVE, OAKLAND, CA
Site ID No.	ARCO 374
Site Lat/Long:	
California Global ID #:	T0600100106
BP/GEM PM Contact:	PAUL SUPPLE
Address:	P.O. Box 6549
	Moraga, CA 94570
Tele/Fax:	925-299-8891/925-299-8872

Consultant/Contractor:	URS
Address:	1333 Broadway, Suite 800
	Oakland, CA 94612
e-mail EDD:	donna_cosper@URSCorp.com
Consultant/Contractor Project No.:	38-00000374.01 00427
Consultant Tele/Fax:	510-893-3600/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (circle one)
BP/GEM Work Release No:	INTRIM -50119

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Water/Liquid	Sediments	Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	Requested Analysis: GRO / BTEX (8015/8021/8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1348		X			01	3				X	X				X	X	X	
2	B-374-110404	1350		X			02	2				X								ON HOLD
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Sampler's Name:	Brian Alcorn	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	Blaine Tech Services		11/4/04	1127		11/4/04	1157
Shipment Date:			11/4/04	1715		11/4/04	1715
Shipment Method:							
Shipment Tracking No:							

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

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

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 374
REC. BY (PRINT): JD
WORKORDER: MDK0224

DATE REC'D AT LAB: 11/4/04
TIME REC'D AT LAB: 1715
DATE LOGGED IN: 11-5-04

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

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent (Present circled)	01	A-C	MW-1	VOA (3)	HCl	–	W	11/4/04	
	Intact / Broken* (Intact circled)	02	AB	TB-374-11042004	↓ (2)	↓	↓	↓	↓	
2. Chain-of-Custody	Present / Absent* (Present circled)									
3. Traffic Reports or Packing List:	Present / Absent (Absent circled)									
4. Airbill:	Airbill / Sticker Present / Absent (Absent circled)									
5. Airbill #:										
6. Sample Labels:	Present / Absent (Present circled)									
7. Sample IDs:	Listed / Not Listed on Chain-of-Custody (Listed circled)									
8. Sample Condition:	Intact / Broken* / Leaking* (Intact circled)									
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes / No* (Yes circled)									
10. Sample received within hold time?	Yes / No* (Yes circled)									
11. Adequate sample volume received?	Yes / No* (Yes circled)									
12. Proper Preservatives used?	Yes / No* (Yes circled)									
13. Trip Blank / Temp Blank Received? (circle which, if yes)	Yes / No* (Yes circled)									
14. Temp Rec. at Lab: Is temp 4 +/-2°C? (Acceptance range for samples requiring thermal pres.)	5.2 Yes / No** (Yes circled)									
**Exception (if any): METALS / OFF ON ICE or Problem COC										

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

SRL Revision 6
Replaces Rev 5 (06/07/04)

ATTACHMENT C

ERROR CHECK REPORTS AND EDF/GEOWELL SUBMITTAL CONFIRMATIONS

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL GEO_WELL CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	11/12/2004 11:38:23 AM

Processing is complete. No errors were found!
You may now proceed to the upload page.

Back to Main Menu

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

UPLOADING A GEO_WELL FILE

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

Submittal Title:	**4Q04 GEOWELL SUBMITTAL SITE 374**
Submittal Date/Time:	**11/12/2004 11:39:34 AM**
Confirmation Number:	**1216358780**

Back to Main Menu

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CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been succcessfully uploaded!

Confirmation Number: 8042258322
Date/Time of Submittal: 11/24/2004 4:14:17 PM
Facility Global ID: T0600100106
Facility Name: ARCO # 00374
Submittal Title: 4Q04 GW Monitoring Report Site 0374
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
8042258322	4Q04 GW Monitoring Report Site 0374	Q4 2004

SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	11/24/2004	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%	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

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

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	URS Corporation-Oakland Office
USER NAME:	URSCORP-OAKLAND
DATE CHECKED:	11/24/2004 4:12:44 PM
GLOBAL ID:	T0600100106
FILE UPLOADED:	ARCO#0374-EDF-MNK0226.zip

No errors were found in your EDF upload file.

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

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

Click here to view the detections report for this upload.

ARCO # 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

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MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

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

- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

Logged in as URSCORP-OAKLAND (CONTRACTOR) CONTACT SITE ADMINISTRATOR.