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Atlantic Richfield Company
(a BP affiliated company)

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

Alameda County
SEP 13 2005
Environmental Health

September 12, 2005

Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California
ACEH Case #3793

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



September 12, 2005

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

Alameda County
SEP 13 2005
Environmental Health

**Re: Third Quarter 2005 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California
ACEH Case #3793**

Dear Ms. Drogos:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is submitting the *Third Quarter 2005 Groundwater Monitoring Report* for ARCO Service Station #2169, located at 889 West Grand Avenue, Oakland, California.

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

Sincerely,
URS CORPORATION

Scott Robinson, P.G.
Project Manager



Enclosure: Third Quarter 2005 Groundwater Monitoring Report

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

R E P O R T

**THIRD QUARTER 2005
GROUNDWATER MONITORING
REPORT**

**ARCO SERVICE STATION #2169
889 WEST GRAND AVENUE
OAKLAND, CALIFORNIA**

Prepared for
RM

September 12, 2005

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

Date: September 12, 2005
Quarter: 3Q 05

THIRD QUARTER 2005 GROUNDWATER MONITORING REPORT

Facility No.: 2169 Address: 889 West Grand Avenue, Oakland, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Primary Agency: Alameda County Environmental Health (ACEH)
ACEH Case No.: 3793

WORK PERFORMED THIS QUARTER (Third – 2005):

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

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2005):

1. Prepare and submit the Fourth Quarter 2005 Status Report.

SITE SUMMARY:

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Semi-Annually: A-1, A-5, A-6 and ADR-1
Annual: (3rd Quarter): A-2, AR-1, AR-2, ADR-2
Frequency of Groundwater Monitoring: Semi-Annually
Is Free Product (FP) Present On-Site: No
FP Recovered this Quarter: None- Soil Vapor Extraction System shut-down in December 2001
Cumulative FP Recovered to Date: 4.8 gallons, wells ADR-1 and ADR-2
Bulk Soil Removed This Quarter: None
Bulk Soil Removed to Date: 2,196 cubic yards of TPH impacted soil
Current Remediation Techniques: None
Approximate Depth to Groundwater: 10.11 (A-5) to 12.03 (A-3) feet
Groundwater Gradient (direction): West
Groundwater Gradient (magnitude): 0.004 feet per foot

DISCUSSION:

Gasoline range organics were detected at or above the laboratory reporting limit in five of the eight wells sampled this quarter at concentrations ranging from 67 micrograms per liter ($\mu\text{g/L}$) (ADR-1) to 1,900 $\mu\text{g/L}$ (ADR-2). Benzene was detected at or above the laboratory reporting limit in three wells at concentrations ranging from 2.8 $\mu\text{g/L}$ (ADR-1) to 200 $\mu\text{g/L}$ (ADR-2). Ethylbenzene was detected at or above the laboratory reporting limit in two wells at concentrations of 1.8 $\mu\text{g/L}$ (A-1) and 160 $\mu\text{g/L}$ (ADR-2). Xylenes were detected at or above the laboratory reporting limit in two wells at concentrations of 1.0 $\mu\text{g/L}$ (A-1) and 9.6 $\mu\text{g/L}$ (ADR-2). Methyl tert-butyl ether was detected at or above the laboratory reporting limit in five wells at concentrations ranging from 1.2 $\mu\text{g/L}$ (A-2) to 14 $\mu\text{g/L}$ (A-6). Tert-amyl methyl ether was detected at or above the laboratory reporting limit in one well at a concentration of 2.2 $\mu\text{g/L}$ (A-6).

ATTACHMENTS:

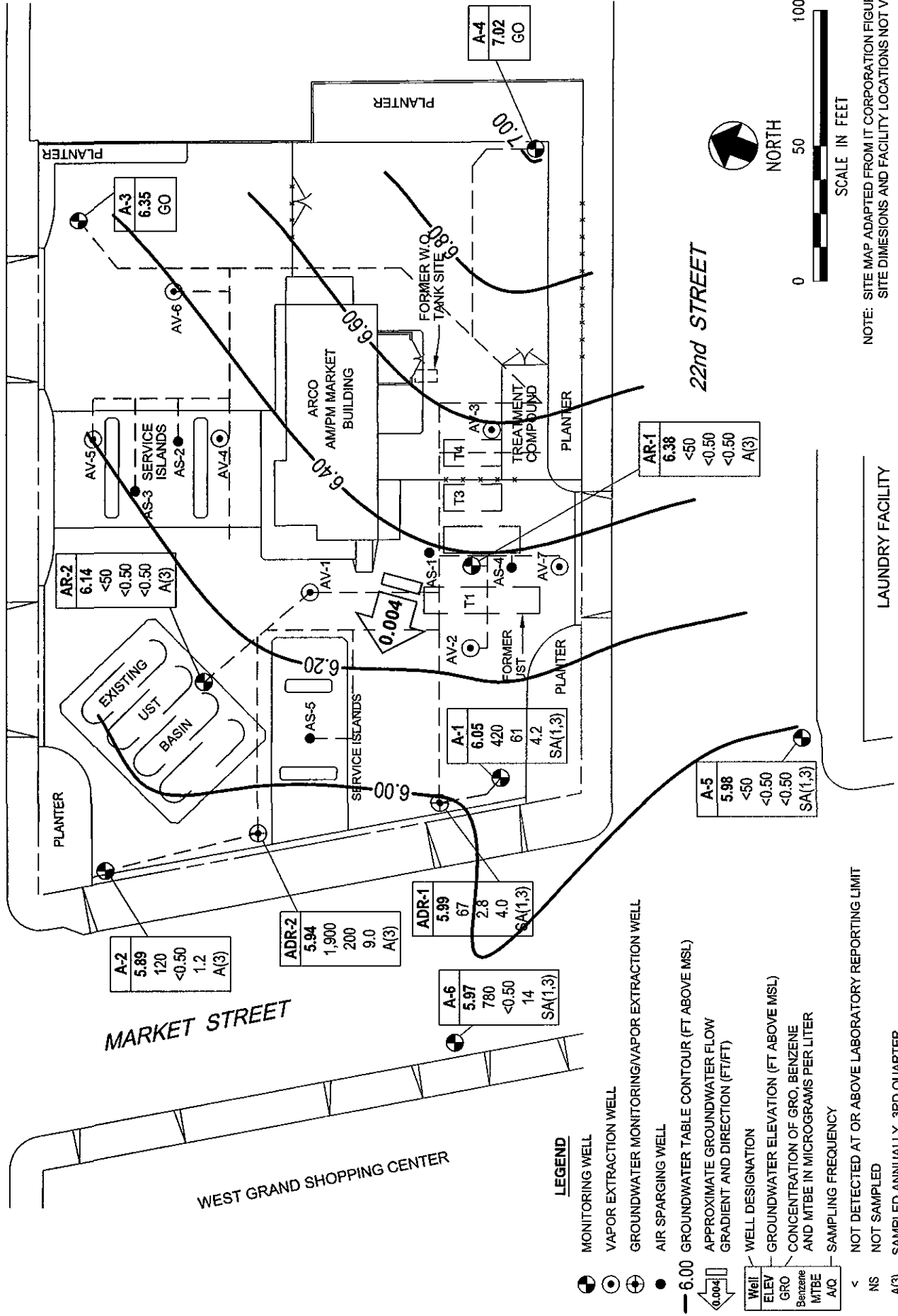
- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 11, 2005
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Additive Analytical Data
- Table 3 - Groundwater Flow Direction and Gradient
- Attachment A – Field Procedures and Field Data Sheets
- Attachment B – Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C – Historical Groundwater Data
- Attachment D – Error Check Reports and EDF/GEOWELL Submittal Confirmations

WEST GRAND AVENUE

MARKET STREET

WEST GRAND SHOPPING CENTER

22nd STREET



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

SCALE IN FEET

LEGEND

- MONITORING WELL
- VAPOR EXTRACTION WELL
- ⊕ GROUNDWATER MONITORING/VAPOR EXTRACTION WELL
- AIR SPARGING WELL
- 6.00 GROUNDWATER TABLE CONTOUR (FT ABOVE MSL)
- ↔ APPROXIMATE GROUNDWATER FLOW GRADIENT AND DIRECTION (FT/FT)
- Well
- ELEV GROUNDWATER ELEVATION (FT ABOVE MSL)
- GRO CONCENTRATION OF GRO, BENZENE AND MTBE IN MICROGRAMS PER LITER
- MTBE
- A/Q SAMPLING FREQUENCY
- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT
- NS NOT SAMPLED
- A(3) SAMPLED ANNUALLY, 3RD QUARTER
- SA SAMPLED SEMI-ANNUALLY, 1ST & 3RD QUARTERS
- GO GAUGE ONLY
- REMEDIATION PIPING

GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP
 Third Quarter 2005 (August 11, 2005)

Project No. 38487180
 ARCO Service Station 2169
 889 West Grand Avenue
 Oakland, California



Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand 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
A-1	6/26/2000	--		14.16	9.00	25.00	10.75	3.41	--	--	--	--	--	--	--	--
	7/20/2000	--		14.16	9.00	25.00	11.01	3.15	3,900	1,100	28	12	46	25	--	--
	9/19/2000	--		14.16	9.00	25.00	11.26	2.90	4,800	2,400	27	20	57	32	--	--
	12/26/2000	--		14.16	9.00	25.00	10.96	3.20	429	104	2.85	12.2	9.91	18.7	--	--
	3/20/2001	--		14.16	9.00	25.00	9.59	4.57	<500	13.9	7.12	13.9	23.2	<25	--	--
	6/12/2001	--		14.16	9.00	25.00	10.83	3.33	140	2.2	<0.5	8.7	9.2	25	--	--
	9/23/2001	--		14.16	9.00	25.00	11.43	2.73	<50	<0.50	<0.50	<0.50	<0.50	4.5	--	--
	12/28/2001	--		14.16	9.00	25.00	8.66	5.50	930	250	7.6	21	13	<25	--	--
	3/21/2002	--		14.16	9.00	25.00	8.43	5.73	<50	<0.5	<0.5	<0.5	1.2	<2.5	--	--
	4/17/2002	--		14.16	9.00	25.00	9.36	4.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	8/14/2002	--	b	14.16	9.00	25.00	11.12	3.04	170	8.4	<0.5	<0.5	1.4	4.9	5.7	7.4
	11/27/2002	--	b	14.16	9.00	25.00	11.11	3.05	98	2.9	0.75	<0.5	<0.5	6.4	1.6	7.0
	2/12/2003	--	d	14.16	9.00	25.00	10.10	4.06	73	9.3	<0.50	1	0.53	2.9	2.1	7.2
	5/22/2003	--		14.16	9.00	25.00	10.18	3.98	400	88	1.6	4.6	11	4.9	1.3	7.4
	7/23/2003	--		14.16	9.00	25.00	10.85	3.31	140	3.2	<0.50	<0.50	0.56	10	10.8	7.4
	11/13/2003	P	f	14.16	9.00	25.00	11.35	2.81	<50	0.64	<0.50	<0.50	<0.50	4.2	4.30	7.75
	02/16/2004	P	f, i	16.75	9.00	25.00	9.65	7.10	99	18	<0.50	1.2	0.96	3.2	7.20	7.6
	05/06/2004	P		16.75	9.00	25.00	10.57	6.18	<50	0.73	<0.50	<0.50	<0.50	1.9	1.23	6.93
	09/02/2004	P		16.75	9.00	25.00	11.05	5.70	64	1.1	<0.50	<0.50	<0.50	1.7	12.10	8.7
	11/29/2004	P		16.75	9.00	25.00	10.50	6.25	<50	1.4	<0.50	<0.50	<0.50	<0.50	0.62	7.0
02/02/2005	P		16.75	9.00	25.00	9.18	7.57	56	14	<0.50	<0.50	0.55	5.1	3.20	7.2	
05/09/2005	P		16.75	9.00	25.00	9.28	7.47	52	7.8	<0.50	0.53	0.52	2.7	2.10	7.2	
08/11/2005	P		16.75	9.00	25.00	10.70	6.05	420	61	<0.50	1.8	1.0	4.2	3.20	6.8	
A-2	6/26/2000	--		14.55	10.00	25.00	11.27	3.28	--	--	--	--	--	--	--	--
	7/20/2000	--		14.55	10.00	25.00	11.52	3.03	<50	<0.5	<0.5	<0.5	<1.0	<3	--	--
	9/19/2000	--		14.55	10.00	25.00	11.63	2.92	--	--	--	--	--	--	--	--
	12/26/2000	--		14.55	10.00	25.00	11.44	3.11	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	3/20/2001	--		14.55	10.00	25.00	10.08	4.47	--	--	--	--	--	--	--	--
	6/12/2001	--		14.55	10.00	25.00	11.35	3.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
	9/23/2001	--		14.55	10.00	25.00	11.92	2.63	--	--	--	--	--	--	--	--
	12/28/2001	--		14.55	10.00	25.00	9.31	5.24	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--
3/21/2002	--		14.55	10.00	25.00	9.05	5.50	--	--	--	--	--	--	--	--	
4/17/2002	--		14.55	10.00	25.00	9.88	4.67	52	<0.5	<0.5	<0.5	<0.5	26	--	--	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Service Station #2169
 889 W. Grand 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
A-2	8/14/2002	--	c	14.55	10.00	25.00	11.62	2.93	<50	<0.5	<0.5	<0.5	1.2	<2.5	3.7	7.2
	11/27/2002	--		14.55	10.00	25.00	11.56	2.99	---	---	---	---	---	--	---	---
	2/12/2003	--	d	14.55	10.00	25.00	10.75	3.80	<50	<0.50	<0.50	<0.50	<0.50	12	2.9	7.1
	5/22/2003	--		14.55	10.00	25.00	10.72	3.83	---	---	---	---	---	--	---	---
	7/23/2003	--		14.55	10.00	25.00	11.39	3.16	<50	<0.50	<0.50	<0.50	<0.50	2.6	1.3	6.8
	11/13/2003	--		14.55	10.00	25.00	11.60	2.95	--	--	--	--	--	--	--	--
	02/16/2004	--	i	17.18	10.00	25.00	10.27	6.91	--	--	--	--	--	--	--	--
	05/06/2004	--		17.18	10.00	25.00	11.05	6.13	--	--	--	--	--	--	--	--
	09/02/2004	P		17.18	10.00	25.00	11.45	5.73	130	<0.50	<0.50	<0.50	<0.50	2.5	5.10	7.4
	11/29/2004	--		17.18	10.00	25.00	11.12	6.06	--	--	--	--	--	--	--	--
	02/02/2005	--		17.18	10.00	25.00	9.73	7.45	--	--	--	--	--	--	--	--
	05/09/2005	--		17.18	10.00	25.00	12.82	4.36	--	--	--	--	--	--	--	--
	08/11/2005	P	m	17.18	10.00	25.00	11.29	5.89	120	<0.50	<0.50	<0.50	<0.50	1.2	1.60	7.1
A-3	6/26/2000	--		15.75	9.00	29.50	11.98	3.77	---	---	---	---	---	--	---	---
	7/20/2000	--		15.75	9.00	29.50	12.21	3.54	---	---	---	---	---	--	---	---
	9/19/2000	--		15.75	9.00	29.50	12.50	3.25	---	---	---	---	---	--	---	---
	12/26/2000	--		15.75	9.00	29.50	12.17	3.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/20/2001	--		15.75	9.00	29.50	10.70	5.05	---	---	---	---	---	--	---	---
	6/12/2001	--		15.75	9.00	29.50	12.09	3.66	---	---	---	---	---	--	---	---
	9/23/2001	--		15.75	9.00	29.50	12.65	3.10	---	---	---	---	---	--	---	---
	12/28/2001	--		15.75	9.00	29.50	9.94	5.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/21/2002	--		15.75	9.00	29.50	9.69	6.06	---	---	---	---	---	--	---	---
	4/17/2002	--		15.75	9.00	29.50	10.61	5.14	---	---	---	---	---	--	---	---
	8/14/2002	--		15.75	9.00	29.50	12.27	3.48	---	---	---	---	---	--	---	---
	11/27/2002	--		15.75	9.00	29.50	12.22	3.53	---	---	---	---	---	--	---	---
	2/12/2003	--	d	15.75	9.00	29.50	11.40	4.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.9
	5/22/2003	--		15.75	9.00	29.50	11.42	4.33	---	---	---	---	---	--	---	---
	7/23/2003	--		15.75	9.00	29.50	12.00	3.75	---	---	---	---	---	--	---	---
	02/16/2004	--	g, i	18.37	9.00	29.50	10.94	7.43	--	--	--	--	--	--	--	--
	05/06/2004	--		18.37	9.00	29.50	11.75	6.62	--	--	--	--	--	--	--	--
09/02/2004	--		18.37	9.00	29.50	12.15	6.22	--	--	--	--	--	--	--	--	
11/29/2004	--		18.37	9.00	29.50	11.87	6.50	--	--	--	--	--	--	--	--	
02/02/2005	--		18.37	9.00	29.50	10.42	7.95	--	--	--	--	--	--	--	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand 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)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
A-3	05/09/2005	--		18.37	9.00	29.50	10.49	7.88	--	--	--	--	--	--	--	--
	08/11/2005	--		18.37	9.00	29.50	12.02	6.35	--	--	--	--	--	--	--	--
A-4	6/26/2000	--		15.25	8.00	28.00	10.99	4.26	---	---	---	---	---	---	---	---
	7/20/2000	--		15.25	8.00	28.00	11.16	4.09	---	---	---	---	---	---	---	---
	9/19/2000	--		15.25	8.00	28.00	11.97	3.28	---	---	---	---	---	---	---	---
	12/26/2000	--		15.25	8.00	28.00	11.19	4.06	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/20/2001	--		15.25	8.00	28.00	9.81	5.44	---	---	---	---	---	---	---	---
	6/12/2001	--		15.25	8.00	28.00	11.12	4.13	---	---	---	---	---	---	---	---
	9/23/2001	--		15.25	8.00	28.00	11.63	3.62	---	---	---	---	---	---	---	---
	12/28/2001	--		15.25	8.00	28.00	8.41	6.84	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/21/2002	--		15.25	8.00	28.00	8.63	6.62	---	---	---	---	---	---	---	---
	4/17/2002	--		15.25	8.00	28.00	9.68	5.57	---	---	---	---	---	---	---	---
	8/14/2002	--		15.25	8.00	28.00	11.31	3.94	---	---	---	---	---	---	---	---
	11/27/2002	--		15.25	8.00	28.00	11.25	4.00	---	---	---	---	---	---	---	---
	2/12/2003	--	d	15.25	8.00	28.00	10.37	4.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.1
	5/22/2003	--		15.25	8.00	28.00	10.42	4.83	---	---	---	---	---	---	---	---
	7/23/2003	--		15.25	8.00	28.00	11.02	4.23	---	---	---	---	---	---	---	---
	02/16/2004	--	g, i	18.01	8.00	28.00	9.65	8.36	--	--	--	--	--	--	--	--
	05/06/2004	--		18.01	8.00	28.00	10.68	7.33	--	--	--	--	--	--	--	--
	09/02/2004	--		18.01	8.00	28.00	10.83	7.18	--	--	--	--	--	--	--	--
	11/29/2004	--		18.01	8.00	28.00	10.50	7.51	--	--	--	--	--	--	--	--
	02/02/2005	--		18.01	8.00	28.00	9.22	8.79	--	--	--	--	--	--	--	--
05/09/2005	--		18.01	8.00	28.00	8.98	9.03	--	--	--	--	--	--	--	--	
08/11/2005	--		18.01	8.00	28.00	10.99	7.02	--	--	--	--	--	--	--	--	
A-5	6/26/2000	--		13.51	8.00	30.00	10.04	3.47	---	---	---	---	---	---	---	---
	7/20/2000	--		13.51	8.00	30.00	10.31	3.20	730	140	11	<0.5	8.9	3	---	---
	9/19/2000	--		13.51	8.00	30.00	10.55	2.96	160	13	<0.5	2.8	1.9	<3	---	---
	12/26/2000	--		13.51	8.00	30.00	10.37	3.14	8,120	465	108	659	1,450	<250	---	---
	3/20/2001	--		13.51	8.00	30.00	8.81	4.70	7,990	1,110	473	611	1,580	<250	---	---
	6/12/2001	--		13.51	8.00	30.00	10.13	3.38	450	91	18	35	95	<5.0	---	---
	9/23/2001	--		13.51	8.00	30.00	10.80	2.71	110	20	<0.5	5	5	2.7	---	---
	12/28/2001	--		13.51	8.00	30.00	8.17	5.34	320	24	2	20	27	5	---	---
	3/21/2002	--		13.51	8.00	30.00	7.78	5.73	2,500	420	85	130	350	31	---	---

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand 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
A-5	4/17/2002	--		13.51	8.00	30.00	8.68	4.83	1,300	190	36	67	210	<25	---	---
	8/14/2002	--	b	13.51	8.00	30.00	10.41	3.10	840	150	<5.0	68	41	<25	1.4	6.8
	11/27/2002	--	b	13.51	8.00	30.00	10.50	3.01	300	26	2.3	17	6	<0.5	1.16	7.2
	2/12/2003	--	d	13.51	8.00	30.00	10.81	2.70	<500	74	7	34	45	<5.0	1.0	7.3
	5/22/2003	--		13.51	8.00	30.00	9.46	4.05	500	100	9	28	47	<5.0	1.0	7.6
	7/23/2003	--		13.51	8.00	30.00	10.29	3.22	900	100	5.7	65	57	<5.0	4.5	8.4
	11/13/2003	NP	f	13.51	8.00	30.00	11.24	2.27	1,800	210	5.1	190	140	<5.0	4.30	7.32
	02/16/2004	NP	h, i	16.09	8.00	30.00	9.45	6.64	680	52	15	50	77	<0.50	5.0	7.8
	05/06/2004	P		16.09	8.00	30.00	10.28	5.81	1,500	140	13	72	110	<2.5	1.03	6.93
	09/02/2004	NP		16.09	8.00	30.00	10.78	5.31	690	69	1.3	42	35	<1.0	1.30	7.1
	11/29/2004	NP		16.09	8.00	30.00	10.05	6.04	<5,000	360	<50	190	290	<50	1.0	7.0
	02/02/2005	NP		16.09	8.00	30.00	8.37	7.72	220	31	2.3	10	13	<0.50	0.60	7.4
	05/09/2005	NP		16.09	8.00	30.00	8.45	7.64	110	1.7	<0.50	1.4	1.1	<0.50	2.50	7.6
	08/11/2005	NP		16.09	8.00	30.00	10.11	5.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.80	7.3
	A-6	6/26/2000	--		13.51	8.00	28.50	10.09	3.42	---	---	---	---	---	--	---
7/20/2000		--		13.51	8.00	28.50	10.91	2.60	170	<0.5	<0.5	0.6	2	6	---	---
9/19/2000		--		13.51	8.00	28.50	11.27	2.24	<50	<0.5	<0.5	<0.5	<1.0	6	---	---
12/26/2000		--		13.51	8.00	28.50	10.65	2.86	56.2	<0.5	<0.5	<0.5	<0.5	8.17	---	---
3/20/2001		--		13.51	8.00	28.50	8.72	4.79	216	<0.5	<0.5	<0.5	1.8	19.9	---	---
6/12/2001		--		13.51	8.00	28.50	10.80	2.71	80	0.62	<0.5	<0.5	<0.5	15	---	---
9/23/2001		--		13.51	8.00	28.50	10.79	2.72	450	1.7	1.9	2.3	3.3	53	---	---
12/28/2001		--		13.51	8.00	28.50	8.05	5.46	270	0.98	3.5	0.77	1.4	26	---	---
3/21/2002		--		13.51	8.00	28.50	7.83	5.68	130	<0.5	<0.5	<0.5	<0.5	19	---	---
4/17/2002		--		13.51	8.00	28.50	8.73	4.78	<50	<0.5	<0.5	<0.5	<0.5	16	---	---
8/14/2002		--	b	13.51	8.00	28.50	10.43	3.08	980	4.8	2.6	2	4.9	75	1.5	7.1
11/27/2002		--	b	13.51	8.00	28.50	10.47	3.04	280	<0.5	0.74	<0.5	<0.5	16	0.9	6.9
2/12/2003		--	d	13.51	8.00	28.50	10.44	3.07	51	<0.50	<0.50	<0.50	<0.50	9.9	0.8	7.1
5/22/2003		--		13.51	8.00	28.50	9.43	4.08	<50	<0.50	<0.50	<0.50	<0.50	11	1.2	8.2
7/23/2003		--		13.51	8.00	28.50	10.27	3.24	120	<0.50	<0.50	<0.50	<0.50	14	>20	9.6
11/13/2003	NP	f	13.51	8.00	28.50	11.20	2.31	<50	<0.50	<0.50	<0.50	<0.50	2.3	6.20	9.0	
02/16/2004	NP	h, i	16.10	8.00	28.50	9.76	6.34	50	<0.50	<0.50	<0.50	<0.50	3.9	6.50	8.3	
05/06/2004	P		16.10	8.00	28.50	10.03	6.07	110	<0.50	<0.50	<0.50	<0.50	7.1	1.01	7.02	
09/02/2004	NP		16.10	8.00	28.50	10.47	5.63	56	<0.50	<0.50	<0.50	<0.50	4.4	3.20	7.4	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand 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
A-6	11/29/2004	NP		16.10	8.00	28.50	9.99	6.11	<50	<0.50	<0.50	<0.50	<0.50	2.9	0.92	6.9
	02/02/2005	NP		16.10	8.00	28.50	8.46	7.64	150	<0.50	<0.50	<0.50	<0.50	14	0.50	7.4
	05/09/2005	NP		16.10	8.00	28.50	8.55	7.55	93	<0.50	<0.50	<0.50	<0.50	12	3.0	7.2
	08/11/2005	NP		16.10	8.00	28.50	10.13	5.97	780	<0.50	<0.50	<0.50	<0.50	14	1.0	6.9
ADR-1	6/26/2000	--		13.95	5.00	22.00	10.55	3.40	---	---	---	---	---	--	---	---
	7/20/2000	--		13.95	5.00	22.00	10.85	3.10	180	29	<0.5	0.8	<1.0	22	---	---
	9/19/2000	--		13.95	5.00	22.00	11.08	2.87	120	7.4	<0.5	1.2	<1.0	22	---	---
	12/26/2000	--		13.95	5.00	22.00	10.93	3.02	<50	1.29	<0.5	<0.5	<0.5	14.7	---	---
	3/20/2001	--		13.95	5.00	22.00	9.32	4.63	225	23.4	<0.5	8.71	4.13	10.8	---	---
	6/12/2001	--		13.95	5.00	22.00	10.65	3.30	250	23	0.5	13	4.2	7.5	---	---
	9/23/2001	--		13.95	5.00	22.00	11.25	2.70	<50	1.4	<0.5	<0.5	0.57	2.8	---	---
	12/28/2001	--		13.95	5.00	22.00	8.43	5.52	250	16	<0.5	1.2	4.1	6.8	---	---
	3/21/2002	--		13.95	5.00	22.00	8.27	5.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	4/17/2002	--		13.95	5.00	22.00	9.17	4.78	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	8/14/2002	--		13.95	5.00	22.00	11.88	2.07	<50	1.1	<0.5	<0.5	<0.5	<2.5	3.4	6.7
	11/27/2002	--		13.95	5.00	22.00	10.91	3.04	<50	0.54	<0.5	<0.5	<0.5	1.1	1.8	6.8
	2/12/2003	--	d	13.95	5.00	22.00	9.95	4.00	<50	<0.50	<0.50	<0.50	<0.50	0.73	1.9	7.2
	5/22/2003	--		13.95	5.00	22.00	9.86	4.09	<50	0.96	<0.50	<0.50	<0.50	3.5	1.2	7.3
	7/23/2003	--		13.95	5.00	22.00	10.59	3.36	<50	2.5	<0.50	0.56	<0.50	4	>20	9.4
	11/13/2003	--	f	13.95	5.00	22.00	11.15	2.80	<50	0.60	<0.50	<0.50	<0.50	1.6	8.50	8.2
	02/16/2004	NP	f, i	16.56	5.00	22.00	9.43	7.13	<50	<0.50	<0.50	<0.50	<0.50	1.6	5.50	9.6
	05/07/2004	NP		16.56	5.00	22.00	10.41	6.15	<500	5.3	<5.0	<5.0	<5.0	<5.0	1.72	7.0
	09/02/2004	NP		16.56	5.00	22.00	10.73	5.83	<50	<0.50	<0.50	<0.50	<0.50	0.84	18.10	8.4
	11/29/2004	NP		16.56	5.00	22.00	10.30	6.26	<50	3.0	<0.50	<0.50	<0.50	<0.50	0.77	6.9
02/02/2005	NP		16.56	5.00	22.00	9.02	7.54	<50	<0.50	<0.50	<0.50	<0.50	3.4	0.50	7.5	
05/09/2005	NP		16.56	5.00	22.00	8.92	7.64	<50	<0.50	<0.50	<0.50	<0.50	2.6	2.90	7.3	
08/11/2005	NP		16.56	5.00	22.00	10.57	5.99	67	2.8	<0.50	<0.50	<0.50	4.0	0.60	6.0	
ADR-2	6/26/2000	--		14.64	5.00	22.00	11.22	3.42	---	---	---	---	---	--	---	---
	7/20/2000	--		14.64	5.00	22.00	11.60	3.04	12,000	410	2.5	540	720	23	---	---
	9/19/2000	--		14.64	5.00	22.00	11.81	2.83	1,400	530	5	680	740	34	---	---
	12/26/2000	--		14.64	5.00	22.00	11.52	3.12	901	26.6	<5.0	21.4	32.5	32.8	---	---
	3/20/2001	--	j	14.64	5.00	22.00	10.10	4.54	---	---	---	---	---	---	---	---
	6/12/2001	--	j	14.64	5.00	22.00	11.41	3.23	---	---	---	---	---	---	---	---

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand 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
ADR-2	9/23/2001	--		14.64	5.00	22.00	11.98	2.66	5,300	370	<5.0	550	96	60	---	---
	12/28/2001	--		14.64	5.00	22.00	9.48	5.16	2,600	190	<5.0	160	29	61	---	---
	3/21/2002	--		14.64	5.00	22.00	9.10	5.54	180	6	<0.5	4.5	3.2	15	---	---
	4/17/2002	--		14.64	5.00	22.00	9.93	4.71	730	86	<0.5	13	<0.5	<25	---	---
	8/14/2002	--	b	14.64	5.00	22.00	12.09	2.55	1,300	170	<10	100	47	<50	0.9	7.0
	11/27/2002	--	b	14.64	5.00	22.00	11.66	2.98	1,800	240	3.1	120	14	74	0.6	6.9
	2/12/2003	--	d	14.64	5.00	22.00	10.74	3.90	760	120	<5.0	15	5.2	22	1.3	7.1
	5/22/2003	--		14.64	5.00	22.00	10.67	3.97	520	110	<5.0	7.1	<5.0	9.7	0.7	7.6
	7/23/2003	--		14.64	5.00	22.00	11.38	3.26	140	2.8	<0.50	5	0.98	8.4	>20	9.4
	02/16/2004	--	f, i	17.24	5.00	22.00	10.26	6.98	--	--	--	--	--	--	--	--
	05/06/2004	--		17.24	5.00	22.00	11.05	6.19	--	--	--	--	--	--	--	--
	09/02/2004	P		17.24	5.00	22.00	11.50	5.74	<500	67	<5.0	71	12	5.6	0.70	7.4
	11/29/2004	--		17.24	5.00	22.00	11.20	6.04	--	--	--	--	--	--	--	--
	02/02/2005	--		17.24	5.00	22.00	9.76	7.48	--	--	--	--	--	--	--	--
	05/09/2005	--		17.24	5.00	22.00	11.18	6.06	--	--	--	--	--	--	--	--
	08/11/2005	NP		17.24	5.00	22.00	11.30	5.94	1,900	200	<2.5	160	9.6	9.0	0.60	6.6
AR-1	6/26/2000	--		15.61	8.00	28.00	11.59	4.02	---	---	---	---	---	--	---	---
	7/20/2000	--		15.61	8.00	28.00	12.06	3.55	<50	<0.5	<0.5	<0.5	<1.0	6	---	---
	9/19/2000	--		15.61	8.00	28.00	11.89	3.72	<50	<0.5	<0.5	<0.5	<1.0	<3	---	---
	12/26/2000	--		15.61	8.00	28.00	11.95	3.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	03/20/01	--	a	15.61	8.00	28.00	---	---	---	---	---	---	---	--	---	---
	6/12/2001	--		15.61	8.00	28.00	11.87	3.74	<50	<0.5	<0.5	<0.5	<0.5	17	---	---
	9/23/2001	--		15.61	8.00	28.00	12.42	3.19	---	---	---	---	---	--	---	---
	12/28/2001	--		15.61	8.00	28.00	7.62	7.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/21/2002	--		15.61	8.00	28.00	9.37	6.24	---	---	---	---	---	--	---	---
	4/17/2002	--		15.61	8.00	28.00	10.43	5.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	8/14/2002	--		15.61	8.00	28.00	12.08	3.53	<50	<0.5	<0.5	<0.5	1.3	<2.5	2.2	7.9
	11/27/2002	--		15.61	8.00	28.00	12.00	3.61	---	---	---	---	---	--	---	---
	2/12/2003	--	d	15.61	8.00	28.00	10.89	4.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.9
	5/22/2003	--		15.61	8.00	28.00	11.18	4.43	---	---	---	---	---	--	---	---
	7/23/2003	--		15.61	8.00	28.00	11.73	3.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	7.7
	11/13/2003	--		15.61	8.00	28.00	12.05	3.56	--	--	--	--	--	--	--	--
	02/16/2004	--		18.18	8.00	28.00	10.35	7.83	--	--	--	--	--	--	--	--

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand 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
AR-1	05/06/2004	--		18.18	8.00	28.00	11.60	6.58	--	--	--	--	--	--	--	--
	09/02/2004	P		18.18	8.00	28.00	11.88	6.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.20	7.8
	11/29/2004	--		18.18	8.00	28.00	11.55	6.63	--	--	--	--	--	--	--	--
	02/02/2005	--		18.18	8.00	28.00	9.92	8.26	--	--	--	--	--	--	--	--
	05/09/2005	--		18.18	8.00	28.00	10.19	7.99	--	--	--	--	--	--	--	--
	08/11/2005	P	n	18.18	8.00	28.00	11.80	6.38	<50	<0.50	<0.50	<0.50	<0.50	<0.50	7.40	7.6
AR-2	6/26/2000	--		15.28	8.50	28.50	11.79	3.49	---	---	---	---	---	--	---	---
	7/20/2000	--		15.28	8.50	28.50	12.07	3.21	<50	<0.5	<0.5	<0.5	<1.0	<3	---	---
	9/19/2000	--		15.28	8.50	28.50	12.08	3.20	<50	<0.5	<0.5	<0.5	<1.0	<3	---	---
	12/26/2000	--		15.28	8.50	28.50	11.95	3.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---
	3/20/2001	--		15.28	8.50	28.50	10.50	4.78	---	---	---	---	---	--	---	---
	6/12/2001	--		15.28	8.50	28.50	11.73	3.55	<50	<0.5	<0.5	<0.5	<0.5	82	---	---
	9/23/2001	--		15.28	8.50	28.50	12.43	2.85	---	---	---	---	---	--	---	---
	12/28/2001	--		15.28	8.50	28.50	8.60	6.68	<50	<0.5	<0.5	<0.5	<0.5	30	---	---
	3/21/2002	--		15.28	8.50	28.50	9.49	5.79	---	---	---	---	---	--	---	---
	4/17/2002	--		15.28	8.50	28.50	10.37	4.91	<50	<0.5	<0.5	<0.5	<0.5	3.2	---	---
	8/14/2002	--		15.28	8.50	28.50	12.13	3.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	1.4	7.9
	11/27/2002	--		15.28	8.50	28.50	12.08	3.20	---	---	---	---	---	--	---	---
	2/12/2003	--	d	15.28	8.50	28.50	11.15	4.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	7.5
	5/22/2003	--		15.28	8.50	28.50	11.18	4.10	---	---	---	---	---	--	---	---
	7/23/2003	--		15.28	8.50	28.50	11.85	3.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	8.2
	11/13/2003	--	f	15.28	8.50	28.50	11.98	3.30	--	--	--	--	--	--	--	--
	02/16/2004	--	f, i	17.87	8.50	28.50	10.69	7.18	--	--	--	--	--	--	--	--
	05/06/2004	--		17.87	8.50	28.50	11.55	6.32	--	--	--	--	--	--	--	--
	09/02/2004	--	k	17.87	8.50	28.50	--	--	--	--	--	--	--	--	--	--
	09/20/2004	NP		17.87	8.50	28.50	11.98	5.89	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.20	10.4
11/29/2004	--		17.87	8.50	28.50	12.62	5.25	--	--	--	--	--	--	--	--	
02/02/2005	--		17.87	8.50	28.50	10.12	7.75	--	--	--	--	--	--	--	--	
05/09/2005	--		17.87	8.50	28.50	10.13	7.74	--	--	--	--	--	--	--	--	
08/11/2005	NP		17.87	8.50	28.50	11.73	6.14	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.80	7.3	

Table 1

Groundwater Elevation and Analytical Data

ARCO Service Station #2169
889 W. Grand Ave., Oakland, CA

ABBREVIATIONS & SYMBOLS:

-- = 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 tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

FOOTNOTES:

a = Well was covered by stockpiled soil and not accessible
b = GRO/TPH-g Chromatogram Pattern: Gasoline C6-C10
c = Primary and confirmation results for xylene varied by greater than 40% RPD. The values may still be useful for their intended purpose
d = TPH-g, BTEX, and MTBE analyzed using EPA Method 8260B starting first quarter 2003
e = Well inaccessible.
f = ORC sock in well
g = Well removed from annual sampling schedule
h = ORC sock removed prior to gauging
i = Site re-survey to NAV'88 datum on January 30, 2004
j = Sheen
k = Car parked over well AR-2 during monitoring event on 9/2/04. Well was sampled 9/20/04.
m = Hydrocarbon result partly due to individual peak(s) in quant. range.
n = Possible low bias for GRO due to CCV falling outside acceptance criteria.

NOTES:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPHg was changed to GRO. The resulting data may be impacted by the potential of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported.

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

Top and bottom of screen depths for wells ADR-1 and ADR-2 are estimated from EMCON sampling sheets.

Values for DO and pH were obtained through field measurements.

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

Table 2

Fuel Additives Analytical Data
 ARCO Service Station #2169
 889 W. Grand 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
A-1	2/12/2003	<40	<20	2.9	<0.50	<0.50	<0.50	--	--	
	5/22/2003	<100	<20	4.9	<0.50	<0.50	<0.50	--	--	
	7/23/2003	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
	11/13/2003	<100	<20	4.2	<0.50	<0.50	<0.50	--	--	
	02/16/2004	<100	<20	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/06/2004	<100	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	11/29/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/02/2005	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	a
	05/09/2005	<100	<20	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	a
A-2	2/12/2003	<40	<20	12	<0.50	<0.50	<0.50	--	--	
	5/22/2003	--	--	--	--	--	--	--	--	
	7/23/2003	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<100	<20	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
		08/11/2005	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	a
A-3	2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	5/22/2003	--	--	--	--	--	--	--	--	
	7/23/2003	--	--	--	--	--	--	--	--	
A-4	2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	5/22/2003	--	--	--	--	--	--	--	--	
	7/23/2003	--	--	--	--	--	--	--	--	
A-5	2/12/2003	<400	<200	<5.0	<5.0	<5.0	<5.0	--	--	
	5/22/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	
	7/23/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	11/13/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	--	--	
	02/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/06/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
	09/02/2004	<200	<40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	11/29/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
	02/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/09/2005	<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	a

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2169
889 W. Grand 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
A-6	2/12/2003	<40	<20	9.9	<0.50	<0.50	<0.50	--	--	
	5/22/2003	<100	<20	11	<0.50	<0.50	0.6	--	--	
	7/23/2003	<100	<20	14	<0.50	<0.50	0.54	<0.50	<0.50	
	11/13/2003	<100	<20	2.3	<0.50	<0.50	<0.50	--	--	
	02/16/2004	<100	<20	3.9	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/06/2004	<100	<20	7.1	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	11/29/2004	<100	<20	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/02/2005	<100	<20	14	<0.50	<0.50	0.91	<0.50	<0.50	a
	05/09/2005	<100	<20	12	<0.50	<0.50	0.66	<0.50	<0.50	
	08/11/2005	<100	<20	14	<0.50	<0.50	2.2	<0.50	<0.50	a
ADR-1	2/12/2003	<40	<20	0.73	<0.50	<0.50	<0.50	--	--	
	5/22/2003	<100	<20	3.5	<0.50	<0.50	<0.50	--	--	
	7/23/2003	<100	<20	4	<0.50	<0.50	<0.50	<0.50	<0.50	
	11/13/2003	<100	<20	1.6	<0.50	<0.50	<0.50	--	--	
	02/16/2004	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	05/07/2004	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
	09/02/2004	<100	<20	0.84	<0.50	<0.50	<0.50	<0.50	<0.50	
	11/29/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	02/02/2005	<100	<20	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
	05/09/2005	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
	08/11/2005	<100	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	a
ADR-2	2/12/2003	<400	<200	22	<5.0	<5.0	<5.0	--	--	
	5/22/2003	<1,000	<200	9.7	<5.0	<5.0	<5.0	--	--	
	7/23/2003	<100	<20	8.4	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/02/2004	<1,000	<200	5.6	<5.0	<5.0	<5.0	<5.0	<5.0	
		08/11/2005	<500	<100	9.0	<2.5	<2.5	<2.5	<2.5	<2.5	a
AR-1	2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	--	--	
	5/22/2003	--	--	--	--	--	--	--	--	
	7/23/2003	<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

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2169
889 W. Grand 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
AR-2	2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	---	---	
	5/22/2003	---	---	---	---	---	---	---	---	
	7/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	09/20/2004	<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	a

Table 2

Fuel Additives Analytical Data

ARCO Service Station #2169
889 W. Grand Ave., Oakland, CA

ABBREVIATIONS & SYMBOLS:

– = Not analyzed/applicable/measured/available

< = Not detected at or above the laboratory reporting limit.

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

ug/L = Micrograms per Liter

FOOTNOTES:

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

NOTES:

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

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

Table 3

Groundwater Gradient Data
ARCO Service Station #2169
889 W. Grand Ave., Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
7/20/2000	Northwest	0.004
9/19/2000	West-Northwest	0.003
12/26/2000	Northwest	0.004
3/20/2001	Northwest	0.003
6/12/2001	Northwest	0.004
9/23/2001	Northwest	0.004
12/28/2001	Variable	Variable
3/21/2002	Northwest	0.004
4/17/2002	Northwest	0.003
8/14/2002	West	0.003
11/27/2002	West	0.003
2/12/2003	South	0.005
5/22/2003	West to Northwest	0.002 to 0.003
7/23/2003	Southwest to Northwest	0.005 to 0.004
11/13/2003	Southwest	0.009
2/16/2004	Southwest	0.009
5/6/2004	Southwest	0.004
9/2/2004	West-Northwest	0.005
11/29/2004	West to Southwest	0.005 to 0.006
2/2/2005	Northwest to Southwest	0.005
5/9/2005	Northwest	0.01
8/11/2005	West	0.004

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

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe.

Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 050811-WC-1 Date 8/11/05 Client Arco@2169

Site 889 W. Grand 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	NPe'
A-1	3			Thickness of Immiscible Liquid (ft.) Depth to Bottom 23.72	Volume of Immiscibles Removed (ml) Depth to WATER 10.70	23.72	10.70		
A-2	3					11.29	24.65		range
A-3	3					12.02	26.48		range
A-4	3					10.99	27.76		g.o.
A-5	2					10.11	24.20		g.o.
A-6	2					10.13	26.98		5' tr.
AR-1	6					11.80	27.72		5'
AR-2	4					11.73	28.66		range 8.5'
ADR-1	4					10.57	21.00		5'
ADR-2	4					11.30	25.88	↓	5'

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050811-WC-1</u>	Station # <u>2169</u>
Sampler: <u>WL</u>	Date: <u>8/11/05</u>
Well I.D.: <u>A-1</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>23.72</u>	Depth to Water: <u>10.70</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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

Purge Method: 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.

<u>4.8</u>	x	<u>3</u>	=	<u>14.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>1213</u>	<u>74.3</u>	<u>7.2</u>	<u>994</u>	<u>5</u>	<u>clear</u>
<u>1218</u>	<u>73.7</u>	<u>7.0</u>	<u>991</u>	<u>10</u>	<u>↓</u>
<u>1223</u>	<u>73.6</u>	<u>6.8</u>	<u>997</u>	<u>15</u>	<u>↓</u>

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1227 Sampling Date: 8/11/05

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

Analyzed for: GRO BTX MTBE DRO Other: See COC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>3.2</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050811-WC-1</u>	Station # <u>2169</u>
Sampler: <u>WC</u>	Date: <u>8/11/05</u>
Well I.D.: <u>A-2</u>	Well Diameter: 2 <input checked="" type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/>
Total Well Depth: <u>24.65</u>	Depth to Water: <u>11.29</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> Grade	D.O. Meter (if req'd): YSI <input checked="" type="checkbox"/> 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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

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>5.0</u>	x	<u>3</u>	=	<u>15.0</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1035 1045	73.7	7.4	966	5	clear
1043	73.2	7.1	982	10	↓
1048	72.5	7.1	986	15	

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 1052 Sampling Date: 8/11/05

Sample I.D.: A-2 Laboratory: Pace Sequoia Other _____

Analyzed for: GRO TEX MTBE DRO Other: See COC

D.O. (if req'd):	Pre-purge:	$\frac{mg}{L}$	Post-purge:	<u>1:6</u>	$\frac{mg}{L}$
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

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ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050811-WC-1</u>	Station # <u>2169</u>
Sampler: <u>WC</u>	Date: <u>8/11/05</u>
Well I.D.: <u>A-5</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>24.20</u>	Depth to Water: <u>10.11</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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

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

Top of Screen: 5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$$\frac{\text{1 Case Volume (Gals.)}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{Calculated Volume Gals.}$$

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>11:38</u>	<u>74.735</u>	<u>7.3</u>	<u>1017</u>	<u>✓</u>	<u>clear</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1140 Sampling Date: _____

Sample I.D.: A-5 Laboratory: Pace Sequoia Other _____

Analyzed for: GRO ETEX MTBE DRO Other: see COE

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-WC-1	Station # 2169
Sampler: WC	Date: 8/11/05
Well I.D.: A-6	Well Diameter: ② 3 4 6 8
Total Well Depth: 26.98	Depth to Water: 10.13
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: 5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$$\frac{1 \text{ Case Volume (Gals.)}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{Calculated Volume Gals.}$$

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1048	77.9	6.9	958	—	clear

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: **1050** Sampling Date: **8/11/05**

Sample I.D.: **A-6** Laboratory: Pace **Sequidia** Other _____

Analyzed for: **GRO** **TEX** MTBE DRO Other: **See log**

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050811-WC-1</u>	Station # <u>2169</u>
Sampler: <u>WC</u>	Date: <u>8/11/05</u>
Well I.D.: <u>AR-1</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: <u>27.72</u>	Depth to Water: <u>11.80</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>PVO</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric <u>Submersible</u> Extraction Pump Other: <u> </u>	Sampling Method: <u>Bailer</u> Disposable <u>Bailer</u> Extraction Port Other: <u> </u>
---	---

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>23.4</u>	x	<u>3</u>	=	<u>70.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1052	73.9	7.8	354	24	clear
1055	73.3	7.8	384	47	↓
1059	71.8	7.6	810	71	↓

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>71</u>
Sampling Time: <u>1103</u>	Sampling Date: <u>8/11/05</u>
Sample I.D.: <u>AR-1</u>	Laboratory: Pace <u>Segodia</u> Other <u> </u>
Analyzed for: <input checked="" type="checkbox"/> GRO <input checked="" type="checkbox"/> STEK MTBE DRO Other: <u>See COC</u>	
D.O. (if req'd):	Pre-purge: <u> </u> mg/L Post-purge: <u>7.4</u> mg/L
O.R.P. (if req'd):	Pre-purge: <u> </u> mV Post-purge: <u> </u> mV

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0449

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 050811-WC-1	Station # 2169
Sampler: WC	Date:
Well I.D.: AR-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 28.66	Depth to Water: 11.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <u>HACH</u>

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

Top of Screen: 8.5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

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

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
0916	73.1	7.3	883	—	

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 0920 Sampling Date: 8/11/05

Sample I.D.: AR-2 Laboratory: Pace Scotia Other _____

Analyzed for: NO TEX MTBE DRO Other: See LOC

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.8	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050811-WC-1</u>	Station # <u>2169</u>
Sampler: <u>WC</u>	Date: <u>8/11/05</u>
Well I.D.: <u>ADR-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth: <u>21.00</u>	Depth to Water: <u>10.57</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI <u>1A0H</u>

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

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

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: _____

Top of Screen: 5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$$\frac{1 \text{ Case Volume (Gals.)}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{Calculated Volume Gals.}$$

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>0846</u>	<u>76.2</u>	<u>6.0</u>	<u>1173</u>	<u>—</u>	<u>clear</u>

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 0850 Sampling Date: 8/11/05

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	Post-purge:	<u>0.6</u> mg/L
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge:	<u> </u> mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>050811-wc-1</u>	Station # <u>2169</u>
Sampler: <u>wc</u>	Date: <u>8/11/05</u>
Well I.D.: <u>ADR-2</u>	Well Diameter: 2 3 <input checked="" type="radio"/> 4 6 8 <input type="checkbox"/>
Total Well Depth: <u>25.846</u>	Depth to Water: <u>11.30</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="checkbox"/> <input checked="" type="radio"/> 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: 5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

$$\frac{\text{I Case Volume (Gals.)}}{\text{Specified Volumes}} \times \text{Specified Volumes} = \text{Calculated Volume (Gals.)}$$

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>0903</u>	<u>73.0</u>	<u>6.6</u>	<u>1369</u>	<u>—</u>	<u>odor/clear</u>

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 0905 Sampling Date: 8/11/05

Sample I.D.: ADR-2 Laboratory: Pace Seppia Other _____

Analyzed for: GRO PTEX MTBE DRO Other: see COC

D.O. (if req'd):	Pre-purge:	<u> </u> mg/L	Post-purge:	<u>0.6</u> mg/L
O.R.P. (if req'd):	Pre-purge:	<u> </u> mV	Post-purge:	<u> </u> 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:

2169

Station #

889 W. Grand Ave., Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

101 Gallons

added equip. rinse water

2 Gal

any other adjustments

TOTAL GALS. RECOVERED

103 Gal

loaded onto BTS vehicle #

22

BTS event #

050811-WZ-1

time

1300

date

8/11/05

signature

W.M. Crow

REC'D AT

Blaine Tech

time

1630

date

8/11/05

unloaded by signature

W.M. 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.



24 August, 2005

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

RE: ARCO #2169, Oakland, CA
Work Order: MOH0678

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

Sincerely,

Jamshid Kekobad
Project Manager

CA ELAP Certificate #1210

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

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	MOH0678-01	Water	08/11/05 12:27	08/12/05 15:05
A-2	MOH0678-02	Water	08/11/05 10:52	08/12/05 15:05
A-5	MOH0678-03	Water	08/11/05 11:40	08/12/05 15:05
A-6	MOH0678-04	Water	08/11/05 10:50	08/12/05 15:05
AR-1	MOH0678-05	Water	08/11/05 11:03	08/12/05 15:05
AR-2	MOH0678-06	Water	08/11/05 09:20	08/12/05 15:05
ADR-1	MOH0678-07	Water	08/11/05 08:50	08/12/05 15:05
ADR-2	MOH0678-08	Water	08/11/05 09:05	08/12/05 15:05
TB-2169-08112005	MOH0678-09	Water	08/11/05 00:00	08/12/05 15:05

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

These samples were received with intact custody seals.

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

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-1 (MOH0678-01) Water Sampled: 08/11/05 12:27 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	61	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	1.8	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	4.2	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	1.0	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	420	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>107 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
A-2 (MOH0678-02) Water Sampled: 08/11/05 10:52 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	1.2	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	120	50	"	"	"	"	"	"	PV
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>92 %</i>	<i>60-135</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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

 Project: ARCO #2169, Oakland, CA
 Project Number: G0C2D-0004
 Project Manager: Scott Robinson

 MOH0678
 Reported:
 08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-5 (MOH0678-03) Water Sampled: 08/11/05 11:40 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	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>		85 %	60-135	"	"	"	"	"	
A-6 (MOH0678-04) Water Sampled: 08/11/05 10:50 Received: 08/12/05 15:05									
tert-Amyl methyl ether	2.2	0.50	ug/l	1	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	14	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	780	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99 %	60-135	"	"	"	"	"	

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

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
AR-1 (MOH0678-05) Water Sampled: 08/11/05 11:03 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22019	08/22/05	08/23/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	PF
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	60-135	"	"	"	"	"	
AR-2 (MOH0678-06) Water Sampled: 08/11/05 09:20 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	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>		88 %	60-135	"	"	"	"	"	

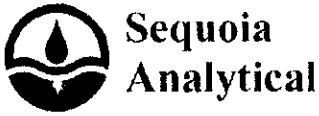
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ADR-1 (MOH0678-07) Water Sampled: 08/11/05 08:50 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	0.50	ug/l	1	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	2.8	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	4.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	67	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89 %	60-135	"	"	"	"	"	
ADR-2 (MOH0678-08) Water Sampled: 08/11/05 09:05 Received: 08/12/05 15:05									
tert-Amyl methyl ether	ND	2.5	ug/l	5	5H22019	08/22/05	08/22/05	EPA 8260B	
Benzene	200	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	160	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	9.0	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	9.6	2.5	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	1900	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	60-135	"	"	"	"	"	



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

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H22019 - EPA 5030B P/T / EPA 8260B

Blank (5H22019-BLK1)

Prepared & Analyzed: 08/22/05

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	4.30		"	5.00		86	60-135			

Blank (5H22019-BLK2)

Prepared & Analyzed: 08/22/05

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							PF
Surrogate: 1,2-Dichloroethane-d4	4.28		"	5.00		86	60-135			



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

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H22019 - EPA 5030B P/T / EPA 8260B

Laboratory Control Sample (5H22019-BS1)

Prepared & Analyzed: 08/22/05

tert-Amyl methyl ether	16.8	0.50	ug/l	15.0		112	80-115			
Benzene	4.84	0.50	"	5.16		94	65-115			
tert-Butyl alcohol	152	20	"	143		106	75-150			
Di-isopropyl ether	14.0	0.50	"	15.1		93	75-125			
1,2-Dibromoethane (EDB)	17.3	0.50	"	14.8		117	85-120			
1,2-Dichloroethane	15.8	0.50	"	14.7		107	85-130			
Ethanol	141	100	"	141		100	70-135			IC
Ethyl tert-butyl ether	15.4	0.50	"	15.0		103	75-130			
Ethylbenzene	7.39	0.50	"	7.54		98	75-135			
Methyl tert-butyl ether	7.74	0.50	"	7.02		110	65-125			
Toluene	37.5	0.50	"	37.2		101	85-120			
Xylenes (total)	39.0	0.50	"	41.4		94	85-125			
Gasoline Range Organics (C4-C12)	355	50	"	440		81	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.22</i>		<i>"</i>	<i>5.00</i>		<i>84</i>	<i>60-135</i>			

Matrix Spike (5H22019-MS1)

Source: MOH0679-03

Prepared & Analyzed: 08/22/05

tert-Amyl methyl ether	610	10	ug/l	301	310	100	80-115			
Benzene	144	10	"	103	51	90	65-115			
tert-Butyl alcohol	5300	400	"	2860	2400	101	75-120			
Di-isopropyl ether	273	10	"	303	ND	90	75-125			
1,2-Dibromoethane (EDB)	330	10	"	297	ND	111	85-120			
1,2-Dichloroethane	323	10	"	294	ND	110	85-130			
Ethanol	2890	2000	"	2830	ND	102	70-135			
Ethyl tert-butyl ether	286	10	"	300	ND	95	75-130			
Ethylbenzene	156	10	"	151	2.0	102	75-135			
Methyl tert-butyl ether	1060	10	"	140	1200	NR	65-125			BB, LN
Toluene	720	10	"	744	ND	97	85-120			
Xylenes (total)	791	10	"	828	6.2	95	85-125			
Gasoline Range Organics (C4-C12)	8390	1000	"	8800	1700	76	70-124			PF
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.42</i>		<i>"</i>	<i>5.00</i>		<i>88</i>	<i>60-135</i>			

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

Project: ARCO #2169, Oakland, CA
Project Number: G0C2D-0004
Project Manager: Scott Robinson

MOH0678
Reported:
08/24/05 12:51

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H22019 - EPA 5030B P/T / EPA 8260B

Matrix Spike Dup (5H22019-MSD1)	Source: MOH0679-03			Prepared & Analyzed: 08/22/05						
tert-Amyl methyl ether	594	10	ug/l	301	310	94	80-115	3	15	
Benzene	138	10	"	103	51	84	65-115	4	20	
tert-Butyl alcohol	5240	400	"	2860	2400	99	75-120	1	25	
Di-isopropyl ether	274	10	"	303	ND	90	75-125	0.4	15	
1,2-Dibromoethane (EDB)	329	10	"	297	ND	111	85-120	0.3	15	
1,2-Dichloroethane	303	10	"	294	ND	103	85-130	6	20	
Ethanol	2670	2000	"	2830	ND	94	70-135	8	35	
Ethyl tert-butyl ether	340	10	"	300	ND	113	75-130	17	25	
Ethylbenzene	156	10	"	151	2.0	102	75-135	0	15	
Methyl tert-butyl ether	1050	10	"	140	1200	NR	65-125	0.9	20	BB, LN
Toluene	744	10	"	744	ND	100	85-120	3	20	
Xylenes (total)	814	10	"	828	6.2	98	85-125	3	20	
Gasoline Range Organics (C4-C12)	8300	1000	"	8800	1700	75	70-124	1	20	PF
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.16</i>		<i>"</i>	<i>5.00</i>		<i>83</i>	<i>60-135</i>			

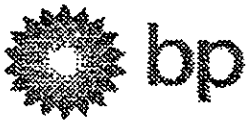
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project:ARCO #2169, Oakland, CA
Project Number:G0C2D-0004
Project Manager:Scott Robinson

MOH0678
Reported:
08/24/05 12:51

Notes and Definitions

PV Hydrocarbon result partly due to individ. peak(s) in quant. range
PF Possible low bias due to CCV falling outside acceptance criteria
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 > 2169 > 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>0800</u>	Temp: <u>69 °F</u>
Off-site Time: <u>1300</u>	Temp: <u>77 °F</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events: <u>---</u>	
Wind Speed: <u>5 mph</u>	Direction: <u>S</u>

Lab Name: <u>Sequoia</u>	BP/AR Facility No.: <u>2169</u>	Consultant/Contractor: <u>URS</u>
Address: <u>885 Jarvis Drive</u> <u>Morgan Hill, CA 95037</u>	BP/AR Facility Address: <u>889 W. Grand Ave., Oakland, CA 94607</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland, CA 94612</u>
Lab PM: <u>Lisa Race / Jamshid Kekobad</u>	California Global ID No.: <u>T0600100112</u>	Consultant/Contractor Project No.: <u>38487027</u>
Tele/Fax: <u>408.782.8156 / 408.782.6308</u>	Enfos Project No.: <u>G0C2D-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> <u>Moraga, CA 94570</u>	Phase/WBS: <u>04 - Mon/Remed by Natural Attenuation</u>	Report Type & QC Level: <u>Level 1 with EDF</u>
Tele/Fax: <u>925.299.8891 / 925.299.8872</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>Donna Cospers@urscorp.com</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	FeSO ₄	HNO ₃	HCl	Methanol	GRO/BTEX (8260)	MTBE, TAME, ETBE (8260)	DIPE, TBA (8260)	EDB, 1,2-DCA (8260)	Ethanol (8260)	
1	A-1	1227	8/11/05	X			01	1					X	X	X	X	X	X	11040678 Sample Point Lat/Long and Comments
2	A-2	1052					02	1					X	X	X	X	X	X	
3	A-5	1140					03	1					X	X	X	X	X	X	
4	A-6	1050					04	1					X	X	X	X	X	X	
5	AR-1	1103					05	1					X	X	X	X	X	X	
6	AR-2	0920					06	1					X	X	X	X	X	X	
7	ADR-1	0850					07	1					X	X	X	X	X	X	
8	ADR-2	0905					08	1					X	X	X	X	X	X	
9	TR-2169-08/12/05						09	2											

Sampler's Name: <u>Will Crow</u>	Relinquished By / Affiliation: <u>Will Crow</u>	Date: <u>8/11/05</u>	Time: <u>1628</u>	Accepted By / Affiliation: <u>Scott Robinson</u>	Date: <u>8/11/05</u>	Time: <u>1628</u>
Sampler's Company: <u>Blaine Tech</u>	Shipment Date: <u>8/12/05</u>		Shipment Method: <u>Sea Air</u>		Shipment Tracking No: <u>1505</u>	

Special Instructions:

Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt 6.3 @ 20 Trip Blank Yes No
 Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor
 BP COC Rev. 4 10/1/04

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC. BY (PRINT): E. Fallin
WORKORDER: M04 6678

DATE REC'D AT LAB: 8/12/05
TIME REC'D AT LAB: 1305
DATE LOGGED IN: 8-13-05

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) <u>Present</u> / Absent <u>Intact</u> / Broken*	01	A-C	A-1	V01 V09(3)	HCL	-	L	8/11/05	
2. Chain-of-Custody <u>Present</u> / Absent*	02		A-2						
3. Traffic Reports or Packing List <u>Present</u> / Absent	03		A-5						
4. Airbill: <u>Airbill</u> / Sticker <u>Present</u> / Absent*	04		A-C						
5. Airbill #: <u>Present</u> / Absent	05		AR-1						
6. Sample Labels: <u>Present</u> / Absent	06		AK-2						
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody	07		ADR-1						
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*	08		ADR-2						
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*	09	A, B	TB 2169 08112005	V09(2)	↓	↓	↓	↓	
10. Sample received within hold time? <u>Yes</u> / No*									
11. Adequate sample volume received? <u>Yes</u> / No*									
12. Proper preservatives used? <u>Yes</u> / No*									
13. <u>Trip</u> Blank / <u>Temp</u> Blank Received? (circle which, if yes) <u>Yes</u> / No*									
14. Read Temp: <u>5.9°C</u> Corrected Temp: <u>5.9°C</u> Is corrected temp 4 +/-2°C? <u>Yes</u> / No** <small>(Acceptance range for samples requiring thermal pres.) Exception (if any): METALS / DFF ON ICE Problem COC</small>									

EBF 8/12/05

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

ATTACHMENT C

HISTORICAL GROUNDWATER DATA

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2189
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH							Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)		
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MIBE 3021B* (µg/L)	MIBE 8160 (µg/L)			TPH Diesel (µg/L)	
A-1	03-24-95	14.16	8.10	ND	6.05	03-24-95											
A-1	06-03-95	14.16	11.13	ND	3.03	06-03-95	1,200	230	39	34	66	--	--				
A-1	08-17-95	14.16	11.71	ND	2.45	08-18-95	1,500	310	27	36	76	--	--	160			
A-1	12-04-95	14.16	12.28	ND	1.88	12-04-95	1,600	470	35	48	110	120	--	240			
A-1	03-01-96	14.16	8.78	ND	5.98	03-13-96	1,200	240	17	25	56	--	--				
A-1	05-29-96	14.16	9.85	ND	4.31	05-29-96	1,300	300	74	29	73	100	120	--			
A-1	08-29-96	14.16	11.08	ND	3.08	08-29-96	1,200	320	5.9	25	27	110	--	--			
A-1	11-21-96	14.16	10.54	ND	3.62	11-21-96	<50	0.8	<0.5	<0.5	<0.5	64	--	--			
A-1	03-26-97	14.16	10.55	ND	3.61	03-26-97	<50	0.8	<0.5	<0.5	<0.5	64	--	--			
A-1	05-21-97	14.16	11.10	ND	3.06	05-21-97	<50	0.8	<0.5	<0.5	<0.5	64	--	--			
A-1	08-08-97	14.16	11.32	ND	2.84	08-08-97	91	7	<0.5	0.5	3.9	<60	--	--			
A-1	11-18-97	14.16	7.10	ND	10.70	11-18-97	54	<0.5	<0.5	<0.5	0.6	27	--	--			
A-1	02-20-98	14.16	3.46	ND	7.06	02-23-98	590	160	22	15	28	70	--	--			
A-1	05-11-98	14.16	9.87	ND	4.29	05-11-98	280	26	<0.5	0.8	2.3	6	--	--			
A-1	07-30-98	14.16	10.73	ND	3.43	07-30-98	1,000	210	5	<5	38	<30	--	--			
A-1	10-08-98	14.16	11.15	ND	3.81	10-08-98	3,100	740	11	<10	24	<60	--	--			
A-1	02-18-99	14.16	8.00	ND	6.16	02-18-99	510	87	7.1	6.4	13	52	--	--			
A-1	05-26-99	14.16	10.60	ND	3.56	05-26-99	240	26	<0.5	1.2	6.2	34	--	--			
A-1	08-23-99	14.16	11.22	ND	2.94	08-23-99	79	3.9	0.6	<0.5	1.7	38	--	--			
A-1	10-27-99	14.16	11.37	ND	2.79	10-27-99	110	2.2	<0.5	<0.5	<1	25	--	--	0.68		NP
A-1	01-31-00	14.16	9.44	ND	4.72	01-31-00	<50	<0.5	<0.5	<0.5	<1	25	--	--	0.80		NP
															1.0		NP

041001ARCO2169QTRLV06060606 Data.xls

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTEB 8021E* (µg/L)	MTEB 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
A-2	03-24-95	14.55	8.64	ND	5.91	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	06-05-95	14.55	11.72	ND	2.83	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	08-17-95	14.55	12.35	ND	2.20	08-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	12-04-95	14.55	12.74	ND	1.81	12-04-95	<50	<0.5	<0.5	<0.5	<0.5	12	--	--		
A-2	03-01-96	14.55	9.34	ND	5.21	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	05-29-96	14.55	10.40	ND	4.15	05-29-96	<50	<0.5	0.6	<0.5	<0.5	13	<9	--		
A-2	08-29-96	14.55	11.50	ND	3.05	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	11-21-96	14.55	11.06	ND	3.49	11-21-96	<50	<0.5	<0.5	<0.5	<0.5	<39	--	--		
A-2	03-26-97	14.55	11.12	ND	3.43	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--		
A-2	05-21-97	14.55	11.58	ND	2.97	05-21-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	08-08-97	14.55	11.82	ND	2.73	08-08-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	11-18-97	14.55	3.33	ND	11.22	11-18-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	02-20-98	14.55	7.68	ND	6.87	02-20-98	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	05-11-98	14.55	10.45	ND	4.18	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-2	07-30-98	14.55	11.23	ND	3.32	07-30-98	Not sampled									
A-2	10-08-98	14.55	11.62	ND	2.93	10-08-98	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	02-18-99	14.55	8.62	ND	5.93	02-18-99	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	05-26-99	14.55	11.16	ND	3.39	05-26-99	93	<0.5	<0.5	<0.5	<1	26	--	--		
A-2	08-23-99	14.55	11.69	ND	2.86	08-23-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-2	10-27-99	14.55	11.88	ND	2.67	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	01-31-00	14.55	10.17	ND	4.38	01-31-00	Not sampled: well sampled semi-annually, during the first and second quarters								0.59	
							<50	<0.5	<0.5	<0.5	<1	<3	--	--	0.59	
															1.0	NP

Table 4
 Historical Groundwater Elevation and Analytical Data
 Petroleum Hydrocarbons and Their Constituents
 1985 - Present***

ARCO Service Station 2169
 889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MTBE 8160 (ug/L)	TEH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
A-3	03-24-95	15.75	8.83	ND	6.92	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-3	06-05-95	15.75	12.44	ND	3.31	06-05-95	Not sampled: well sampled annually									
A-3	08-17-95	15.75	13.04	ND	2.71	08-17-95	Not sampled: well sampled annually									
A-3	12-04-95	15.75	13.57	ND	2.18	12-04-95	Not sampled: well sampled annually									
A-3	03-01-96	15.75	9.90	ND	3.85	03-01-96	Not sampled: well sampled annually									
A-3	05-29-96	15.75	11.08	ND	4.67	05-29-96	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-3	08-29-96	15.75	12.38	ND	3.37	08-29-96	Not sampled: well sampled annually									
A-3	11-21-96	15.75	11.86	ND	3.89	11-21-96	Not sampled: well sampled annually									
A-3	03-26-97	15.75	11.81	ND	3.94	03-26-97	Not sampled: well sampled annually									
A-3	05-21-97	15.75	12.35	ND	3.40	05-21-97	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-3	08-08-97	15.75	12.62	ND	9.13	08-08-97	Not sampled: well sampled annually									
A-3	11-18-97	15.75	3.75	ND	12.00	11-18-97	Not sampled: well sampled annually									
A-3	02-20-98	15.75	8.06	ND	7.69	02-20-98	Not sampled: well sampled annually									
A-3	05-11-98	15.75	11.19	ND	4.56	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-3	07-30-98	15.75	12.03	ND	3.70	07-30-98	Not sampled: well sampled annually									
A-3	10-08-98	15.75	12.43	ND	3.32	10-08-98	Not sampled: well sampled annually									
A-3	02-18-99	15.75	9.05	ND	6.70	02-18-99	Not sampled: well sampled annually									
A-3	05-26-99	15.75	11.93	ND	3.82	05-26-99	Not sampled: well sampled annually									
A-3	08-23-99	15.75	12.57	ND	3.18	08-23-99	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-3	10-27-99	15.75	12.65	ND	3.10	10-27-99	Not sampled: well sampled annually								0.88	
A-3	01-31-00	15.75	9.35	ND	6.20	01-31-00	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	Δ	--	--	1.0	NP

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MDEB 2260 (ug/L)	TPH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
A-4	03-24-95	15.25	7.20	ND	8.05	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-4	06-05-95	15.25	11.70	ND	3.53	06-05-95	Not sampled; well sampled annually									
A-4	08-17-95	15.25	12.28	ND	2.97	08-17-95	Not sampled; well sampled annually									
A-4	12-04-95	15.25	12.63	ND	2.62	12-04-95	Not sampled; well sampled annually									
A-4	03-01-96	15.25	8.35	ND	6.70	03-01-96	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-4	05-29-96	15.25	10.32	ND	4.93	05-29-96	Not sampled; well sampled annually									
A-4	08-29-96	15.25	11.55	ND	3.70	08-29-96	Not sampled; well sampled annually									
A-4	11-21-96	15.25	10.83	ND	4.42	11-21-96	Not sampled; well sampled annually									
A-4	03-26-97	15.25	10.97	ND	4.28	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-4	05-21-97	15.25	11.31	ND	3.74	05-21-97	Not sampled; well sampled annually									
A-4	08-08-97	15.25	11.73	ND	3.52	08-08-97	Not sampled; well sampled annually									
A-4	11-18-97	15.25	4.37	ND	10.88	11-18-97	Not sampled; well sampled annually									
A-4	02-20-98	15.25	6.23	ND	9.00	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-4	05-11-98	15.25	10.33	ND	4.92	05-11-98	Not sampled; well sampled annually									
A-4	07-30-98	15.25	11.25	ND	4.00	07-30-98	Not sampled; well sampled annually									
A-4	10-08-98	15.25	11.62	ND	3.63	10-08-98	Not sampled; well sampled annually									
A-4	02-18-99	15.25	7.12	ND	8.13	02-18-99	Not sampled; well sampled annually									
A-4	05-26-99	15.25	11.12	ND	4.13	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--		
A-4	08-23-99	15.25	11.62	ND	3.63	08-23-99	Not sampled; well sampled annually									
A-4	10-27-99	15.25	11.74	ND	3.51	10-27-99	Not sampled; well sampled annually									
A-4	01-31-00	15.25	9.45	ND	5.80	01-31-00	<50	<0.5	<0.5	<0.5	<0.5	Δ	--	--	0.54	
															1.0	NP

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Table 7
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 2169
888 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)	
A-5	05-24-95	13.51	7.40	ND	6.11	03-24-95											
A-5	06-05-95	13.51	10.43	ND	3.08	06-05-95	3,300	200	310	130	460	..	..	..
A-5	08-17-95	13.51	11.15	ND	2.36	08-18-95	57,000	2,700	4,600	1,500	6,800	..	..	..
A-5	12-04-95	13.51	11.42	ND	2.09	12-04-95	34,000	3,600	2,700	1,100	5,100	<28	..	..	
A-5	03-01-96	13.51	8.11	ND	5.40	03-13-96	61	<0.5	<0.5	<0.5	<0.5	..	..	..
A-5	05-29-96	13.51	9.30	ND	4.21	05-29-96	11,000	860	960	380	1,600	<100	..	..	
A-5	08-29-96	13.51	10.60	ND	2.91	08-29-96	19,000	1,600	1,900	880	3,300	<100	..	..	
A-5	11-21-96	13.51	10.05	ND	3.46	11-21-96	7,700	1,490	450	260	990	<30	..	..	
A-5	03-26-97	13.51	9.87	ND	3.64	03-26-97	8,000	430	350	340	1,100	<30	..	..	
A-5	05-21-97	13.51	10.25	ND	3.26	05-21-97	3,100	190	140	130	340	<30	..	..	
A-5	08-08-97	13.51	10.42	ND	3.09	08-08-97	16,000	1,300	900	700	2,700	<120	..	..	
A-5	11-18-97	13.51					9,000	690	240	440	1,300	<30	..	..	
A-5	02-20-98	13.51	Not surveyed; well inaccessible														
A-5	05-11-98	13.51	Not surveyed; well inaccessible														
A-5	07-30-98	13.51	Not surveyed; well inaccessible														
A-5	10-08-98	13.51	Not surveyed; well inaccessible														
A-5	02-18-99	13.51	7.63	ND	5.88												
A-5	05-26-99	13.51	9.85	ND	3.66	02-18-99	<50	0.8	<0.5	<0.5	1.5	<10	..	..	
A-5	08-23-99	13.51	10.60	ND	2.91	05-26-99	1,700	240	41	110	330	<12	..	..	
A-5	10-27-99	13.51	10.72	ND	2.79	08-23-99	560	65	3	30	52	<6	..	..	
A-5	01-31-00	13.51	9.37	ND	4.14	10-27-99	480	93	1.0	16	19	<6	..	..	0.73	NP
						01-31-00	Not sampled; well is inaccessible									0.65	NP

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Cugged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 80213* (µg/L)	MTBE 3260 (µg/L)	TPR Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
A-6	03-24-95	13.51	7.89	ND	5.62	03-24-95	120	<0.5	<1	<0.5	<1.5	..	..	..
A-6	06-05-95	13.51	10.06	ND	3.45	06-05-95	160	<0.5	<0.6	<0.5	<1.5	..	..	..
A-6	08-17-95	13.51	11.10	ND	2.41	08-18-95	530	<0.5	<0.5	<0.5	<1.5	..	..	..
A-6	12-04-95	13.51	11.52	ND	1.99	12-04-95	28,000	1,600	1,800	880	3,600	..	..	..
A-6	03-01-96	13.51	8.21	ND	5.30	03-13-96	1,400	<0.5	<1.5	<0.5	<1.0	..	..	..
A-6	05-29-96	13.51	9.25	ND	4.26	05-29-96	410	<0.5	<0.5	<0.5	<1.0	<20	..	..
A-6	08-29-96	13.51	10.52	ND	2.99	08-29-96	80	<0.5	<0.5	<0.5	<1.0	3	..	..
A-6	11-21-96	13.51	10.54	ND	2.97	11-21-96	62	<0.5	<0.5	<0.5	<0.5	6	..	..
A-6	03-26-97	13.51	9.93	ND	3.58	03-26-97	110	<0.5	0.8	0.5	1.4	12	..	..
A-6	05-21-97	13.51	10.54	ND	2.97	05-21-97	600	0.6	0.6	1	1.4	15	..	..
A-6	08-08-97	13.51	10.77	ND	2.74	08-08-97	850	<0.5	<0.5	<1	2.7	<0.5	..	..
A-6	11-18-97	13.51	3.41	ND	10.10	11-18-97	690	<0.5	<1	6.1	<0.5	<4	..	..
A-6	02-20-98	13.51	6.73	ND	6.78	02-20-98	60	<0.5	<1	3	2	7	..	..
A-6	05-11-98	13.51	9.26	ND	4.25	05-11-98	140	<0.5	0.6	1.3	0.5	4	..	..
A-6	07-30-98	13.51	10.12	ND	3.59	07-30-98	910	<0.5	0.7	0.6	<0.5	6	..	..
A-6	10-08-98	13.51	10.53	ND	2.98	10-08-98	1,300	<0.5	<0.5	3	7	34	..	..
A-6	02-18-99	13.51	7.50	ND	6.01	02-18-99	150	<0.5	<0.5	3	4	21	..	..
A-6	05-26-99	13.51	10.00	ND	3.51	05-26-99	100	<0.5	<0.5	1.4	1.7	35	..	..
A-6	08-23-99	13.51	10.70	ND	2.81	08-23-99	98	0.6	<0.5	<0.5	<0.5	17	..	..
A-6	10-27-99	13.51	11.00	ND	2.51	10-27-99	<50	<0.5	<0.5	1.1	4.3	13	2.42	NP
A-6	01-31-00	13.51	9.51	ND	4.20	01-31-00	<50	<0.5	<0.5	<0.5	<1	7	13.23	NP
															1.0	NP

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Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MIBE 8021B* (µg/L)	MIBE 8160 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
AR-1	03-24-95	15.61	7.25	ND	8.36	03-24-95	270	14	9.6	2.5	2.1	--	--	130		
AR-1	06-05-95	15.61	11.37	ND	4.24	06-05-95	190	10	<0.5	0.8	0.5	--	--	580		
AR-1	08-17-95	15.61	12.40	ND	3.21	08-17-95	960	110	12	4.5	150	14	--	<50		
AR-1	12-04-95	15.61	12.90	ND	2.71	12-04-95	<50	1.5	<0.5	<0.5	0.8	--	--			
AR-1	03-01-96	15.61	8.19	ND	7.42	03-13-96	150	3.8	0.5	1.4	1.3	<3	--			
AR-1	05-29-96	15.61	10.41	ND	5.20	05-29-96	Not sampled; well sampled semi-annually, during the first and third quarters									
AR-1	08-29-96	15.61	12.12	ND	3.49	08-29-96	<50	<0.5	<0.5	<0.5	0.8	--	--			
AR-1	11-21-96	15.61	11.52	ND	4.09	11-21-96	Not sampled; well sampled semi-annually, during the first and third quarters									
AR-1	03-26-97	15.61	11.33	ND	4.28	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	--	--			
AR-1	05-21-97	15.61	12.02	ND	3.59	05-21-97	Not sampled; well sampled semi-annually, during the first and third quarters									
AR-1	08-08-97	15.61	12.31	ND	3.30	08-08-97	<50	9.7	<0.5	1	<0.5	<3	--			
AR-1	11-18-97	15.61	3.97	ND	11.64	11-18-97	Not sampled; well sampled semi-annually, during the first and third quarters									
AR-1	02-20-98	15.61	6.42	ND	9.19	02-23-98	<200	<2	<2	<2	<2	--	--			
AR-1	05-11-98	15.61	10.93	ND	4.68	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	160	--			
AR-1	07-30-98	15.61	11.82	ND	3.79	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	4	--			
AR-1	10-02-98	15.61	12.24	ND	3.37	10-02-98	<50	<0.5	<0.5	<0.5	<0.5	6	--			
AR-1	02-18-99	15.61	7.75	ND	7.86	02-18-99	<50	<0.5	<0.5	<0.5	<0.5	6	--			
AR-1	05-26-99	15.61	11.62	ND	3.99	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<10	--			
AR-1	08-23-99	15.61	9.32	ND	6.29	08-23-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--			
AR-1	10-27-99	15.61	12.14	ND	3.47	10-27-99	Not sampled; well sampled semi-annually, during the first and second quarters									
AR-1	01-31-00	15.61	Not surveyed; well inaccessible													

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Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	RP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH							Dissolved Oxygen (mg/L)	Purged/ Not Purged (Y/NP)
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	MTBE 8260 (µg/L)			TPH Diesel (µg/L)
AR-2	03-24-95	15.28	9.13	ND	6.15	03-24-95	<50	6.2	<0.5	<0.5	0.6	--	--	<50	
AR-2	06-05-95	15.28	12.09	ND	3.19	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	<50	
AR-2	08-17-95	15.28	12.78	ND	2.50	08-18-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	<50	
AR-2	12-04-95	15.28	11.44	ND	3.84	12-19-95	<50	<0.5	<0.5	<0.5	<0.5	4	--	<50	
AR-2	03-01-96	15.28	9.83	ND	5.45	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	--	--	<50	
AR-2	05-29-96	15.28	10.97	ND	4.31	05-29-96	190	26	2.6	3.3	13	200	--	--	
AR-2	08-29-96	15.28	12.20	ND	3.08	08-29-96	Not sampled: well sampled semi-annually, during the first and third quarters							--	--
AR-2	11-21-96	15.28	11.57	ND	3.71	11-21-96	<50	<0.5	<0.5	<0.5	<0.5	95	--	--	
AR-2	03-26-97	15.28	11.60	ND	3.58	03-26-97	Not sampled: well sampled semi-annually, during the first and third quarters							--	--
AR-2	05-21-97	15.28	12.12	ND	3.16	05-21-97	<50	<0.5	<0.5	<0.5	<0.5	9	--	--	
AR-2	08-08-97	15.28	12.33	ND	2.93	08-08-97	Not sampled: well sampled semi-annually, during the first and third quarters							--	--
AR-2	11-18-97	15.28	3.48	ND	11.50	11-18-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
AR-2	02-20-98	15.28	3.00	ND	7.28	02-20-98	Not sampled: well sampled semi-annually, during the first and third quarters							--	--
AR-2	05-11-98	15.28	10.97	ND	4.91	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	43	--	--	
AR-2	07-30-98	15.28	11.76	ND	3.52	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
AR-2	10-08-98	15.28	12.17	ND	3.11	10-08-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
AR-2	02-18-99	15.28	9.17	ND	6.11	02-18-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
AR-2	05-26-99	15.28	11.72	ND	3.36	05-26-99	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--	
AR-2	08-23-99	15.28	12.31	ND	2.97	08-23-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
AR-2	10-27-99	15.28	12.42	ND	2.86	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters							0.61	
AR-2	01-31-00	15.28	10.31	ND	4.97	01-31-00	Not sampled								

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 2189
889 West Grand Avenue, Oakland, California

Well Number	Date Gaged	TOC Elevation (ft-MSL)	Depth to Water (ft)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	IPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
ADR-1	03-24-95	13.95	8.04	0.01	** 5.92	03-24-95	Not sampled: well contained floating product									
ADR-1	06-05-95	13.95	11.02	ND	2.93	06-05-95	23,000	310	420	300	1,900	--	--	13,000		
ADR-1	08-17-95	13.95	11.36	ND	1.09	08-18-95	4,400	150	120	95	620	120	--	4,500		
ADR-1	12-04-95	13.95	10.05	ND	3.90	12-15-95	8,800	100	130	120	990	--	--	--		
ADR-1	03-01-96	13.95	8.76	ND	5.19	03-13-96	89,000	370	1,000	840	3,100	<500	--	--		
ADR-1	05-29-96	13.95	9.74	ND	4.21	05-30-96	27,000	230	380	370	2,700	<100	--	--		
ADR-1	08-29-96	13.95	10.77	ND	3.18	08-29-96	5,300	190	58	76	470	85	--	--		
ADR-1	11-21-96	13.95	10.45	ND	3.46	11-21-96	1,900	82	21	32	270	110	--	--		
ADR-1	03-26-97	13.95	10.37	ND	3.58	03-26-97	1,300	260	6	39	27	95	--	--		
ADR-1	05-21-97	13.95	10.90	ND	3.05	05-21-97	2,100	300	18	37	200	79	--	--		
ADR-1	08-08-97	13.95	11.12	ND	2.83	08-08-97	3,900	620	49	110	470	<200	--	--		
ADR-1	11-18-97	13.95	3.47	ND	10.48	11-18-97	18,000	900	140	360	2,700	<60	--	--		
ADR-1	02-20-98	13.95	Not surveyed: well inaccessible													
ADR-1	05-11-98	13.95	Not surveyed: well inaccessible													
ADR-1	07-30-98	13.95	Not surveyed: well inaccessible													
ADR-1	10-08-98	13.95	Not surveyed: well inaccessible													
ADR-1	02-18-99	13.95	7.80	ND	5.15	02-18-99	200	4.4	<0.5	1.3	1.3	43	--	--		
ADR-1	05-26-99	13.95	10.40	ND	3.55	05-26-99	160	10	<0.5	1.7	1.3	43	--	--		
ADR-1	08-23-99	13.95	10.70	ND	3.25	08-23-99	7,400	310	16	210	970	18	--	--		
ADR-1	10-27-99	13.95	10.82	ND	3.15	10-27-99	5,000	210	6.3	180	490	5	--	--	0.37	NP
ADR-1	01-31-00	13.95	9.21	ND	4.74	01-31-00	290	3.6	<0.5	1.1	<1	26	--	--	0.73	NP
															1.0	NP

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Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	EP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH				Total Xylenes (ug/L)	MTEB 8021B* (ug/L)	MTEB 8260 (ug/L)	TPH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (Y/N/F)
							Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)						
ADR-2	03-24-95	14.64	8.41	>3.00	NR[1]	03-24-95	Not sampled: well contained floating product									
ADR-2	06-05-95	14.64	11.45	>3.00	NR[1]	06-05-95	Not sampled: well contained floating product									
ADR-2	08-17-95	14.64	12.10	0.03	** 2.56	08-17-95	Not sampled: well contained floating product									
ADR-2	12-04-95	14.64	10.93	0.03	** 3.73	12-13-95	Not sampled: well contained floating product									
ADR-2	03-01-96	14.64	8.74	ND	3.90	03-13-96	Not sampled: well contained floating product									
ADR-2	05-29-96	14.64	10.43	ND	4.21	05-29-96	29,000	1,100	1,200	710	3,800	<500	--	--		
ADR-2	08-29-96	14.64	11.64	ND	3.00	08-29-96	33,000	510	300	470	2,300	120	--	--		
ADR-2	11-21-96	14.64	11.23	ND	3.41	11-21-96	8,000	230	180	150	730	53	--	--		
ADR-2	03-26-97	14.64	11.13	ND	3.51	03-26-97	15,000	630	440	290	2,100	75	--	--		
ADR-2	05-21-97	14.64	11.64	ND	3.00	05-21-97	6,100	320	23	210	460	32	--	--		
ADR-2	08-08-97	14.64	11.85	ND	2.79	08-08-97	6,100	380	22	210	320	<30	--	--		
ADR-2	11-18-97	14.64	3.33	ND	11.31	11-18-97	8,400	380	35	230	910	<30	--	--		
ADR-2	02-20-98	14.64	7.67	ND	6.97	02-20-98	11,000	210	29	300	1,200	<60	--	--		
ADR-2	05-11-98	14.64	10.47	ND	4.17	05-11-98	4,700	320	30	130	360	20	--	--		
ADR-2	07-30-98	14.64	Not surveyed; well inaccessible				Not sampled									
ADR-2	10-08-98	14.64	11.67	ND	2.97	10-08-98	Not sampled									
ADR-2	02-18-99	14.64	Not surveyed; well inaccessible													
ADR-2	05-26-99	14.64	11.02	ND	3.62	05-26-99	5,900	670								
ADR-2	08-23-99	14.64	9.82	ND	4.82	08-23-99	5,100	370	5	340	104	16	--	--		
ADR-1	10-27-99	14.64	9.85	Sheen	4.79	10-27-99	Not sampled: sheen present				1.004	28	--	--		
ADR-1	01-31-00	14.64	10.15	ND	4.49	01-31-00	7,700	280	3.4	370	390	23	--	--	0.50	NP
															0.65	NP
															2.0	NP

GA:\ARCO\2169\QTRLY\Historical Data.xlsx:1

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 2169
888 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MTBE 8260 (ug/L)	TPH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
<p>TOC: top of casing ft-MSL: elevation in feet, relative to mean sea level TPH: total petroleum hydrocarbons, California DHS LMT Method BTEX: benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99) MTBE: Methyl tert-butyl ether ug/L: micrograms per liter mg/L: milligrams per liter ND: none detected NR: not reported; data not available or not measurable --: not analyzed or not applicable <: denotes concentration not present at or above laboratory detection limit stated to the right []: well contained more than 3 feet of floating product; worst product thickness and groundwater elevation would not be measured *: EPA method 8020 prior to 10/27/99 ** [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water ***: For previous historical groundwater elevation data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 2169, 888 West Grand Avenue, Oakland, California, (EMCON, March 4, 1996).</p>																

**Table 2
Groundwater Flow Direction and Gradient**

**ARCO Service Station 2169
889 West Grand Avenue, Oakland, California**

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03-24-95	Northwest	0.009
06-05-95	Northwest	0.002
08-17-95	West	0.001
12-04-95	North-Northwest	0.002
03-01-96	Northwest	0.003
05-29-96	Northwest	0.002
08-29-96	West	0.002
11-21-96	West-Northwest	0.002
03-26-97	Northwest	0.002
05-21-97	North-Northwest	0.002
08-08-97	North-Northwest	0.002
11-18-97	North-Northwest	0.003
02-20-98	North	0.013
05-11-98	North	0.03
07-30-98	North	0.002
10-08-98	North-Northwest	0.002
02-18-99	Northwest	0.008
05-26-99	North-Northwest	0.003
08-23-99	Variable	Variable
10-27-99	Variable	Variable
01-31-00	West-Northwest	0.006

ATTACHMENT D

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

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GOWELL

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<u>USER NAME:</u>	URSCORP-OAKLAND
<u>DATE CHECKED:</u>	8/31/2005 2:01:27 PM
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<u>FILE UPLOADED:</u>	ARCO#2169-EDF-MOH0678.zip

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ARCO # 02169 889 GRAND AVE W OAKLAND, CA 94607	Regional Board - Case #: 01-0120 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3793 ALAMEDA COUNTY LOP - (AG)
---	---

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	8
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
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	
<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 > REPDL</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Date/Time of Submittal: 8/31/2005 2:20:40 PM
Facility Global ID: T0600100112
Facility Name: ARCO # 02169
Submittal Title: 3Q 2005 BP/ARCO 2169 EDF
Submittal Type: GW Monitoring Report

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ARCO # 02169 889 GRAND AVE W OAKLAND, CA 94607	Regional Board - Case #: 01-0120 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3793 ALAMEDA COUNTY LOP - (AG)
---	---

CONF #	TITLE	QUARTER
4469493150	3Q 2005 BP/ARCO 2169 EDF	Q3 2005
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	8/31/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	8
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

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

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

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

FIELD QC SAMPLES

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

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