



Atlantic Richfield Company
(a BP affiliated company)

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

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Alameda County

SEP 03 2003

Environmental Health

August 22, 2003

Re: Third Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, CA

889

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



August 22, 2003

Alameda County
SEP 03 2003
Environmental Health

Mr. Barney Chen
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: Third Quarter 2003 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California
URS Project #38486327**

Dear Mr. Chen:

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2003 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
Project Manager

James F. Durkin, C.Hg.
Senior Geologist



Enclosure: Third Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO (electronic copy uploaded to ENFOS)

URS Corporation
500 12th Street, Suite 200
Oakland, CA 94607-4014
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

Alameda County
SEP 03 2003
Environmental Health

**THIRD QUARTER 2003
GROUNDWATER MONITORING**

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

Prepared for
Atlantic Richfield Company

August 22, 2003

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486327

Date: August 22, 2003
Quarter: 3Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2169 Address: 889 West Grand Avenue, Oakland, California
Atlantic Richfield Co. Environmental Engineer: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson / (510) 874-3280
Consultant Project No.: 38486327
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Third – 2003):

1. Performed third quarter 2003 groundwater monitoring event on July 23, 2003.
2. Prepared and submitted third quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2003):

1. Perform fourth quarter 2003 groundwater monitoring event.
2. Prepare and submit fourth quarter 2003 groundwater monitoring report.
3. Replace oxygen releasing compounds (ORC) socks in wells A-1, A-5, A-6, ADR-1 & ADR-2.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Annual (1st Quarter): A-3, A-4
Semi-annual (1st/3rd Quarter): A-2, AR-1, AR-2
Quarterly: A-1, A-5, A-6, ADR-1, ADR-2
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
FP Recovered this Quarter: None
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: Natural Attenuation / ORC: A-1, A-5, A-6, ADR-1, and ADR-2
Approximate Depth to Groundwater: 10.27 (A-6) to 12.00 (A-3) feet
Groundwater Gradient (direction): Southwest to Northwest
Groundwater Gradient (magnitude): 0.004 to 0.005 feet per foot

DISCUSSION:

TPH-g was detected in four of the eight wells sampled this quarter, at concentrations ranging from 120 micrograms per liter ($\mu\text{g/L}$) in well A-6 to 900 $\mu\text{g/L}$ in well A-5. Benzene was detected in four wells at concentrations ranging from 2.5 $\mu\text{g/L}$ in well ADR-1 to 100 $\mu\text{g/L}$ in well A-5. MTBE was detected in five wells at concentrations ranging from 2.6 $\mu\text{g/L}$ in well A-2 to 14 $\mu\text{g/L}$ in well A-6. TAME was detected in well A-6 at a concentration of 0.54 $\mu\text{g/L}$.

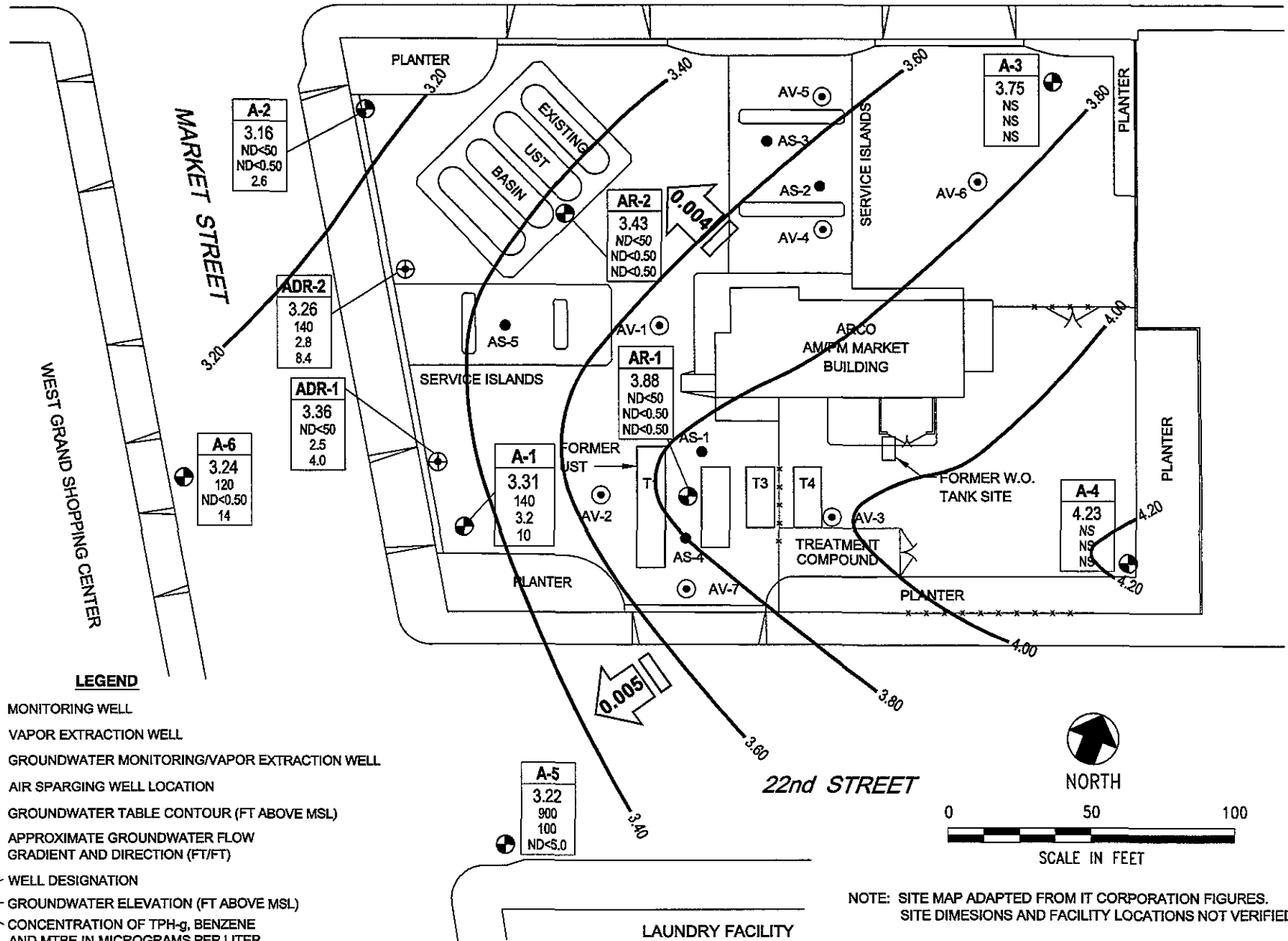
RECOMMENDATIONS:

We recommend removing upgradient wells A-3 and A-4 from the annual sampling schedule due to the consistent non-detect values for the constituents of concern. We further recommend reducing the sampling frequency of wells A-2, AR-1 and AR-2 from semi-annually to annually due to the consistently low to non-detect values for the constituents of concern. All of the wells would continue to be gauged quarterly for groundwater levels.

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – July 23, 2003
- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Table 3 - Fuel Oxygenate Analytical Data
- Attachment A - Field Procedures and Field Data Sheets
- Attachment B - Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records
- Attachment C - Historic Groundwater Data
- Attachment D - EDCC and EDF/Geowell Submittal Confirmation

WEST GRAND AVENUE



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

	Project No. 38486327 Arco Service Station 2169 889 West Grand Avenue Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Third Quarter 2003 (July 23, 2003)	FIGURE 1
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Table 1
Groundwater Elevation and Analytical Data

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

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^e (mg/L)	pH ^c
AR-1	06/26/00	15.61	11.59	4.02	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		12.06	3.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	6	NA	NA
	09/19/00		11.89	3.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<3	NA	NA
	12/26/00		11.95	3.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/20/01 ^a		NM	NM	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/01		11.87	3.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	NA	NA
	09/23/01		12.42	3.19	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/01		7.62	7.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/21/02		9.37	6.24	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/02		10.43	5.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	08/14/02		12.08	3.53	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	ND<2.5	2.2	7.9
	11/27/02		12.00	3.61	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/03 ^d		10.89	4.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	7.9
	05/22/03		11.18	4.43	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03		11.73	3.88	3.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3
AR-2	06/26/00	15.28	11.79	3.49	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		12.07	3.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<3	NA	NA
	09/19/00		12.08	3.2	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<3	NA	NA
	12/26/00		11.95	3.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/20/01		10.50	4.78	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/01		11.73	3.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	82	NA	NA
	09/23/01		12.43	2.85	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/01		8.60	6.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	NA	NA
	03/21/02		9.49	5.79	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/02		10.37	4.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2	NA	NA
	08/14/02		12.13	3.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.4	7.9
	11/27/02		12.08	3.20	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/03 ^d		11.15	4.13	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	7.5
	05/22/03		11.18	4.10	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03		11.85	3.43	3.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3

**Table 1
Groundwater Elevation and Analytical Data**

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Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^e (mg/L)	pH ^c
ADR-1	06/26/00	13.95	10.55	3.40	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		10.85	3.10	180	29	ND<0.5	0.8	ND<1.0	22	NA	NA
	09/19/00		11.08	2.87	120	7.4	ND<0.5	1.2	ND<1.0	22	NA	NA
	12/26/00		10.93	3.02	ND<50	1.29	ND<0.5	ND<0.5	ND<0.5	14.7	NA	NA
	03/20/01		9.32	4.63	225	23.4	ND<0.5	8.71	4.13	10.8	NA	NA
	06/12/01		10.65	3.30	250	23	0.5	13	4.2	7.5	NA	NA
	09/23/01		11.25	2.70	ND<50	1.4	ND<0.5	ND<0.5	0.57	2.8	NA	NA
	12/28/01		8.43	5.52	250	16	ND<0.5	1.2	4.1	6.8	NA	NA
	03/21/02		8.27	5.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02		9.17	4.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	08/14/02		11.88	2.07	ND<50	1.1	ND<0.5	ND<0.5	ND<0.5	ND<2.5	3.4	6.7
	11/27/02		10.91	3.04	ND<50	0.54	ND<0.5	ND<0.5	ND<0.5	1.1	1.8	6.8
	02/12/03 ^d		9.95	4.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.73	1.9	7.2
	05/22/03		9.86	4.09	ND<50	0.96	ND<0.50	ND<0.50	ND<0.50	3.5	1.2	7.3
	07/23/03		10.59	3.36	ND<50	2.5	ND<0.50	0.56	ND<0.50	4.0	>20	9.4
ADR-2	06/26/00	14.64	11.22	3.42	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		11.60	3.04	12,000	410	2.5	540	720	23	NA	NA
	09/19/00		11.81	2.83	1,400	530	5	680	740	34	NA	NA
	12/26/00		11.52	3.12	901	26.6	ND<5.0	21.4	32.5	32.8	NA	NA
	03/20/01		10.10	4.54	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen
	06/12/01		11.41	3.23	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen	Sheen
	09/23/01		11.98	2.66	5300	370	ND<5.0	550	96	60	NA	NA
	12/28/01		9.48	5.16	2,600	190	ND<5.0	160	29	61	NA	NA
	03/21/02		9.1	5.54	180	6	ND<0.5	4.5	3.2	15	NA	NA
	04/17/02		9.93	4.71	730	86	ND<0.5	13	ND<0.5	ND<25	NA	NA
	08/14/02		12.09	2.55	1,300 ^b	170	ND<10	100	47	ND<50	0.9	7.0
	11/27/02		11.66	2.98	1,800 ^b	240	3.1	120	14	74	0.6	6.9
	02/12/03 ^d		10.74	3.90	760	120	ND<5.0	15	5.2	22	1.3	7.1
	05/22/03		10.67	3.97	520	110	ND<5.0	7.1	ND<5.0	9.7	0.7	7.6
	07/23/03		11.38	3.26	140	2.8	ND<0.50	5.0	0.98	8.4	>20	9.4

**Table 1
Groundwater Elevation and Analytical Data**

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Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen ^f (mg/L)	pH ^e
A-1	06/26/00	14.16	10.75	3.41	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		11.01	3.15	3,900	1,100	28	12	46	25	NA	NA
	09/19/00		11.26	2.90	4,800	2,400	27	20	57	32	NA	NA
	12/26/00		10.96	3.20	429	104	2.85	12.2	9.91	18.7	NA	NA
	03/20/01		9.59	4.57	ND<500	13.9	7.12	13.9	23.2	ND<25	NA	NA
	06/12/01		10.83	3.33	140	2.2	ND<0.5	8.7	9.2	25	NA	NA
	09/23/01		11.43	2.73	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	NA	NA
	12/28/01		8.66	5.50	930	250.0	7.6	21	13	ND<25	NA	NA
	03/21/02		8.43	5.73	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2	ND<2.5	NA	NA
	04/17/02		9.36	4.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	08/14/02		11.12	3.04	170 ^b	8.4	ND<0.5	ND<0.5	1.4	4.9	5.7	7.4
	11/27/02		11.11	3.05	98 ^b	2.9	0.75	ND<0.5	ND<0.5	6.4	1.6	7.0
	02/12/03 ^d		10.10	4.06	73	9.3	ND<0.50	1.0	0.53	2.9	2.1	7.2
	05/22/03		10.18	3.98	400	88	1.6	4.6	11	4.9	1.3	7.4
07/23/03	10.85	3.31	140	3.2	ND<0.50	ND<0.50	0.56	10	10.8	7.4		
A-2	06/26/00	14.55	11.27	3.28	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		11.52	3.03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<3	NA	NA
	09/19/00		11.63	2.92	NS	NS	NS	NS	NS	NS	NS	NS
	12/26/00		11.44	3.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/20/01		10.08	4.47	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/01		11.35	3.2	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01		11.92	2.63	NS	NS	NS	NS	NS	NS	NS	NS
	12/28/01		9.31	5.24	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/21/02		9.05	5.5	NS	NS	NS	NS	NS	NS	NS	NS
	04/17/02		9.88	4.67	52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26	NA	NA
	08/14/02		11.62	2.93	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2 ^c	ND<2.5	3.7	7.2
	11/27/02		11.56	2.99	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/03 ^d		10.75	3.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	2.9	7.1
	05/22/03		10.72	3.83	NS	NS	NS	NS	NS	NS	NS	NS
07/23/03	11.39	3.16	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.6	1.3	6.8		

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A-3	06/26/00	15.75	11.98	3.77	NS	NS	NS	NS	NS	NS	NS	NS	
	07/20/00		12.21	3.54	NS	NS	NS	NS	NS	NS	NS	NS	
	09/19/00		12.50	3.25	NS	NS	NS	NS	NS	NS	NS	NS	
	12/26/00		12.17	3.58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/20/01		10.70	5.05	NS	NS	NS	NS	NS	NS	NS	NS	
	06/12/01		12.09	3.66	NS	NS	NS	NS	NS	NS	NS	NS	
	09/23/01		12.65	3.1	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01		9.94	5.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/21/02		9.69	6.06	NS	NS	NS	NS	NS	NS	NS	NS	
	04/17/02		10.61	5.14	NS	NS	NS	NS	NS	NS	NS	NS	
	08/14/02		12.27	3.48	NS	NS	NS	NS	NS	NS	NS	NS	
	11/27/02		12.22	3.53	NS	NS	NS	NS	NS	NS	NS	NS	
	02/12/03 ^d		11.40	4.35	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.2	6.9
	05/22/03		11.42	4.33	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03		12.00	3.75	NS	NS	NS	NS	NS	NS	NS	NS	NS
A-4	06/26/00	15.25	10.99	4.26	NS	NS	NS	NS	NS	NS	NS	NS	
	07/20/00		11.16	4.09	NS	NS	NS	NS	NS	NS	NS	NS	
	09/19/00		11.97	3.28	NS	NS	NS	NS	NS	NS	NS	NS	
	12/26/00		11.19	4.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/20/01		9.81	5.44	NS	NS	NS	NS	NS	NS	NS	NS	
	06/12/01		11.12	4.13	NS	NS	NS	NS	NS	NS	NS	NS	
	09/23/01		11.63	3.62	NS	NS	NS	NS	NS	NS	NS	NS	
	12/28/01		8.41	6.84	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/21/02		8.63	6.62	NS	NS	NS	NS	NS	NS	NS	NS	
	04/17/02		9.68	5.57	NS	NS	NS	NS	NS	NS	NS	NS	
	08/14/02		11.31	3.94	NS	NS	NS	NS	NS	NS	NS	NS	
	11/27/02		11.25	4.00	NS	NS	NS	NS	NS	NS	NS	NS	
	02/12/03 ^d		10.37	4.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.9	7.1
	05/22/03		10.42	4.83	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03		11.02	4.23	NS	NS	NS	NS	NS	NS	NS	NS	NS

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A-5	06/26/00	13.51	10.04	3.47	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		10.31	3.20	730	140	11	ND<0.5	8.9	3	NA	NA
	09/19/00		10.55	2.96	160	13	ND<0.5	2.8	1.9	ND<3	NA	NA
	12/26/00		10.37	3.14	8,120	465	108	659	1,450	ND<250	NA	NA
	03/20/01		8.81	4.70	7,990	1110	473	611	1,580	ND<250	NA	NA
	06/12/01		10.13	3.38	450	91	18	35	95	ND<5.0	NA	NA
	09/23/01		10.80	2.71	110	20	ND<0.5	5.0	5.0	2.7	NA	NA
	12/28/01		8.17	5.34	320	24	2	20	27	5	NA	NA
	03/21/02		7.78	5.73	2,500	420	85	130	350	31	NA	NA
	04/17/02		8.68	4.83	1,300	190	36	67	210	ND<25	NA	NA
	08/14/02		10.41	3.10	840 ^b	150	ND<5.0	68	41	ND<25	1.4	6.8
	11/27/02		10.50	3.01	300 ^b	26	2.3	17	6	ND<0.5	1.2	7.2
	02/12/03 ^d		10.81	2.70	ND<500	74	7.0	34	45	ND<5.0	1.0	7.3
	05/22/03		9.46	4.05	500	100	9.0	28	47	ND<5.0	1.0	7.6
	07/23/03		10.29	3.22	900	100	5.7	65	57	ND<5.0	4.5	8.4
A-6	06/26/00	13.51	10.09	3.42	NA	NA	NA	NA	NA	NA	NA	NA
	07/20/00		10.91	2.60	170	ND<0.5	ND<0.5	0.6	2.0	6	NA	NA
	09/19/00		11.27	2.24	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	6	NA	NA
	12/26/00		10.65	2.86	56.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.17	NA	NA
	03/20/01		8.72	4.79	216	ND<0.5	ND<0.5	ND<0.5	1.8	19.9	NA	NA
	06/12/01		10.80	2.71	80	0.62	ND<0.5	ND<0.5	ND<0.5	15	NA	NA
	09/23/01		10.79	2.72	450	1.7	1.9	2.3	3.3	53	NA	NA
	12/28/01		8.05	5.46	270	0.98	3.5	0.77	1.4	26	NA	NA
	03/21/02		7.83	5.68	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	NA	NA
	04/17/02		8.73	4.78	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	NA	NA
	08/14/02		10.43	3.08	980 ^b	4.8	2.6	2.0	4.9	75	1.5	7.1
	11/27/02		10.47	3.04	280 ^b	ND<0.5	0.74	ND<0.5	ND<0.5	16	0.9	6.9
	02/12/03 ^d		10.44	3.07	51	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.9	0.8	7.1
	05/22/03		9.43	4.08	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	1.2	8.2
	07/23/03		10.27	3.24	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	>20	9.6

Table 1
Groundwater Elevation and Analytical Data

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

TPH	= Total Petroleum Hydrocarbons
MTBE	= Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted
µg/L	= Micrograms per liter
mg/L	= Milligrams per liter
NM	= Not measured
NC	= Not calculated
NA	= Not analyzed, not available, not applicable
NS	= Not sampled
ND<	= Not detected at or above specified laboratory method detection limit
a	= Well was covered by stockpiled soil and not accessible
b	= Chromatogram Pattern: Gasoline C6-C10
c	= Primary and confirmation results 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	= Dissolved oxygen and pH values are field measurements

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

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
07/20/00	Northwest	0.004
09/19/00	West-Northwest	0.003
12/26/00	Northwest	0.004
03/20/01	Northwest	0.003
06/12/01	Northwest	0.004
09/23/01	Northwest	0.004
12/28/01	Variable	Variable
03/21/02	Northwest	0.004
04/17/02	Northwest	0.003
08/14/02	West	0.003
11/27/02	West	0.003
02/12/03	South	0.005
05/22/03	West to Northwest	0.002 to 0.003
07/23/03	Southwest to Northwest	0.005 to 0.004

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

**Table 3
Fuel Oxygenate Analytical Data**

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

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)
AR-1	02/12/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
AR-2	02/12/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
ADR-1	02/12/03	ND<40	ND<20	0.73	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	ND<100	ND<20	3.5	ND<0.50	ND<0.50	ND<0.50	NA	NA
	07/23/03	ND<100	ND<20	4.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
ADR-2	02/12/03	ND<400	ND<200	22	ND<5.0	ND<5.0	ND<5.0	NA	NA
	05/22/03	ND<1,000	ND<200	9.7	ND<5.0	ND<5.0	ND<5.0	NA	NA
	07/23/03	ND<100	ND<20	8.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-1	02/12/03	ND<40	ND<20	2.9	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	ND<100	ND<20	4.9	ND<0.50	ND<0.50	ND<0.50	NA	NA
	07/23/03	ND<100	ND<20	10	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-2	02/12/03	ND<40	ND<20	12	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03	ND<100	ND<20	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
A-3	02/12/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03	NS	NS	NS	NS	NS	NS	NS	NS
A-4	02/12/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03	NS	NS	NS	NS	NS	NS	NS	NS
A-5	02/12/03	ND<400	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA
	05/22/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA
	07/23/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
A-6	02/12/03	ND<40	ND<20	9.9	ND<0.50	ND<0.50	ND<0.50	NA	NA
	05/22/03	ND<100	ND<20	11	ND<0.50	ND<0.50	0.60	NA	NA
	07/23/03	ND<100	ND<20	14	ND<0.50	ND<0.50	0.54	ND<0.50	ND<0.50

Note = All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-Butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert Butyl ether
TAME = tert-Amyl Methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
µg/L = micrograms per liter
ND< = Not detected at or above the laboratory detection limit
NS = Not sampled

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 TeflonTM 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 # 030723-M61 ~~070333461~~ Date 7/23/03 Client Arco 2169

Site 889 W. Grand Ave., Oakland, CA

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
L A-1	3					10.85	23.72	TOC
A-2	3					11.39	24.56	
A-3	3					12.00	28.35	
A-4	3"					11.02	27.60	
* A-5	2					10.29	24.12	
* A-6	2					10.2 11.07	26.97	
AR-1	6					11.73	27.64	
AR-2	4					11.85	28.59	
* ADR-1	4					10.59	21.90	
* ADR-2	4					11.38	26.30	↓
* Gauged w/ ORCs in well.								
** Removed ORCs to gauge.								

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030723-M61	Station # 2169
Sampler: MF	Date: 07/23/03
Well I.D.: A-1	Well Diameter: 2 <u>3</u> 4 6 8
Total Well Depth: 28.70 23.72	Depth to Water: 10.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

4.8	x	3	=	14.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1458	70.5	8.2	1141	5	ORCs in well.
1505	70.7	7.6	1132	10	
1511	70.6	7.4	1125	15	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 15
Sampling Time: 1520	Sampling Date: 7/23/03
Sample I.D.: A-1	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-D</u> <u>BTEX</u> MTBE TPH-D Other: <u>Oxygenates & Ethanol</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: 10.8 mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 07031 030723-MG1	Station # 2169
Sampler: MG	Date: 03/23/03 07/23/03
Well I.D.: A-2	Well Diameter: 2 (3) 4 6 8 _____
Total Well Depth: 24.56	Depth to Water: 11.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	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>4.9</u>	x	<u>3</u>	=	<u>14.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1150	70.2	6.5	1020	5	
1155	69.3	6.7	1023	10	
1200	69.3	6.8	1022	15	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>15</u>
Sampling Time: <u>1210</u>	Sampling Date: <u>7/23/03</u>
Sample I.D.: <u>A-2</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> MTBE TPH-D Other: <u>Oxygenates & Ethanol</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>(1.3)</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030723-MF1	Station # 2169
Sampler: MG	Date: 07/23/03
Well I.D.: A-5	Well Diameter: (2) 3 4 6 8
Total Well Depth: 24.12	Depth to Water: 10.29
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSK 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.

1 Case Volume (Gals.)	Nox Purge =	Gals. Calculated Volume
-----------------------	-------------	----------------------------

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
14 ²⁹	69.1	8.4	1039	—	* ORCS in well

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1430 Sampling Date: 7/23/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYGENATES & ETHANOL

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 4.5 mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030723-MG1	Station # 2169
Sampler: MG	Date: 07/23/03
Well I.D.: A-6	Well Diameter: (2) 3 4 6 8
Total Well Depth: 26.17	Depth to Water: 10.27
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 Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

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.

No	x	Purge	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1409	71.1	9.6	1025	—	* ORCs in well

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 1410 Sampling Date: 7/23/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OXYGENATES & ETHANOL

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	>20	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030723-MG1</u>	Station # <u>2169</u>
Sampler: <u>MG</u>	Date: <u>07/23/03</u>
Well I.D.: <u>AR-1</u>	Well Diameter: 2 3 4 <u>6</u> 8 _____
Total Well Depth: <u>27.64</u>	Depth to Water: <u>11.73</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
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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 <u>µS</u>)	Gals. Removed	Observations
<u>1238</u>	<u>71.4</u>	<u>6.5</u>	<u>440</u>	<u>24</u>	<u>24</u>
<u>1243</u>	<u>71.7</u>	<u>7.2</u>	<u>750</u>	<u>48</u>	
<u>1248</u>	<u>71.7</u>	<u>7.6</u>	831 <u>831</u>	<u>71</u>	
<u>1256</u>	<u>71.3</u>	<u>7.7</u>	<u>841</u>	<u>95</u>	

Did well dewater? Yes <input checked="" type="checkbox"/> <u>NO</u>	Gallons actually evacuated: <u>95</u>	
Sampling Time: <u>1305</u>	Sampling Date: <u>7/23/03</u>	
Sample I.D.: <u>AR-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____	
Analyzed for: <u>TPH</u> <u>BTEX</u> MTBE TPH-D Other: <u>Oxygenates & Ethanol</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: <u>1.3</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 0705 030723-MG1	Station # 2169
Sampler: MG	Date: 07/23/03
Well I.D.: AR-2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 28.59	Depth to Water: 11.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: 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.

10.9	x	3	=	32.6 <u>No Purge</u>
1 Case Volume (Gals.)		Specified Volumes		Gals. Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1334	70.7	8.2	930	—	

Did well dewater? Yes No Gallons actually evacuated:

Sampling Time: 1335 Sampling Date: 7/23/03

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxygenates & Ethanol

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
				<u>1.3</u>
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030723-MG-1	Station # 2169
Sampler: MG	Date: 07/23/03
Well I.D.: ADR-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 11 21.90	Depth to Water: 10.59
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: _____
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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.

<u>No</u> x <u>Purge</u>	=	_____ Gals.
1 Case Volume (Gals.)	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1349	72.5	9.4	1514	—	ORCs in well

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: _____
Sampling Time: 1350	Sampling Date: 7/23/03
Sample I.D.: ADR-1	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>ORGANATES & Ethanol</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: <u>> 20</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030723-MG1 :	Station # 2169
Sampler: MG	Date: 07/23/03
Well I.D.: ADR-2	Well Diameter: 2 3 4 6 8
Total Well Depth: 11.38 26.30	Depth to Water: 11.38
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): (78) 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.

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

Time	Temp (°F)	pH	Conductivity (mS or μS)	Gals. Removed	Observations
1540 1539	70.5	9.4	2847	—	XORCs in well.

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1540 Sampling Date: 7/23/03

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

Analyzed for: TPH-G (BTEX) MTBE TPH-D Other: Oxygenates & Ethanol

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	>20	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030619-DW-2</u>	Station # <u>2169</u>
Sampler: <u>Dave Walter</u>	Date: <u>6-19-03</u>
Well I.D.: <u>A-1</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> <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
 Middleburg Extraction Port
 Electric Submersible
 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.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
					<u>Replaced ORP's in well</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ Laboratory: Pacc Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

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 #: 030619-DW-2	Station # 2169
Sampler: Dave Walter	Date: 6-19-03
Well I.D.: APR-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth:	Depth to Water:
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: _____ Sampling Method: _____

Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible Extraction Pump
 Other: _____

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.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
					Replace ORC's in well

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ Laboratory: Pace Sequoia Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

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>030619-DW-2</u>	Station # <u>2169</u>
Sampler: <u>Dave Walter</u>	Date: <u>6-19-03</u>
Well I.D.: <u>ADR-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>2570</u>	Depth to Water: <u>11.21</u>
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 Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible
 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.

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

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
					<u>Replaced ORC's in well</u>
					<u>changed well</u>

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ Laboratory: Pace Sequoia Other

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

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

WELLHEAD INSPECTION CHECKLIST

Client Arco 2169 Date 7/23/03
 Site Address 889 W. Grand Ave., Oakland, CA
 Job Number 030723-MG1 Technician MORGAN G

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
A-1								X
A-2						X		X
A-3						X		X
A-4						X		X
A-5								X
A-6	X							
ADR-1						X		X
AR-2						X		X
ADR-1						X		X
ADR-2						X		X

NOTES: A-5, A-6 - Christy Box
 A-2, A-3, A-4 3" threaded PVC cap - Need very modified 4" caps
 AR-1, AR-2, ADR-1, ADR-2 - Need to have + plates
 casing cut down so expansion cap will seal well (threaded
 PVC @ top. AR-1 = 6", AR-2, ADR-1, ADR-2 = 4"

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:

2196 2169

Station #

889 W. Grand Ave.

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

125

added equip. _____
rinse water _____

5

any other adjustments _____

TOTAL GALS. RECOVERED

130

loaded onto BTS vehicle #

11

BTS event #

time

date

~~070~~ 030723-MG1

1600

07/23/03

signature

[Signature]

REC'D AT

time

date

BTS

1715

7/23/03

unloaded by

signature

[Signature]

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

LABORATORY PROCEDURES

Laboratory Procedures

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



8 August, 2003

Scott Robinson
URS Corporation [Arco]
500 12th Street, Suite 100
Oakland, CA 94607

RE: ARCO #2169, Oakland, CA
Work Order: MMG0592

Enclosed are the results of analyses for samples received by the laboratory on 07/24/03 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	MMG0592-01	Water	07/23/03 15:20	07/24/03 16:25
A-2	MMG0592-02	Water	07/23/03 12:10	07/24/03 16:25
A-5	MMG0592-03	Water	07/23/03 14:30	07/24/03 16:25
A-6	MMG0592-04	Water	07/23/03 14:10	07/24/03 16:25
AR-1	MMG0592-05	Water	07/23/03 13:05	07/24/03 16:25
AR-2	MMG0592-06	Water	07/23/03 13:35	07/24/03 16:25
ADR-1	MMG0592-07	Water	07/23/03 13:50	07/24/03 16:25
ADR-2	MMG0592-08	Water	07/23/03 15:40	07/24/03 16:25

There were no custody seals that were received with this project.



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-1 (MMG0592-01) Water Sampled: 07/23/03 15:20 Received: 07/24/03 16:25									
Ethanol	ND	100	ug/l	1	3G26006	07/26/03	07/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-09
Methyl tert-butyl ether	10	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	3.2	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.56	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	140	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	78-129	"	"	"	"	"	
A-2 (MMG0592-02) Water Sampled: 07/23/03 12:10 Received: 07/24/03 16:25									
Ethanol	ND	100	ug/l	1	3G26006	07/26/03	07/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-09
Methyl tert-butyl ether	2.6	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	78-129	"	"	"	"	"	

URRS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-5 (MMG0592-03) Water Sampled: 07/23/03 14:30 Received: 07/24/03 16:25									
Ethanol	ND	1000	ug/l	10	3G26006	07/26/03	07/26/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	O-09
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	100	5.0	"	"	"	"	"	"	
Toluene	5.7	5.0	"	"	"	"	"	"	
Ethylbenzene	65	5.0	"	"	"	"	"	"	
Xylenes (total)	57	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	900	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>109 %</i>	<i>78-129</i>						
A-6 (MMG0592-04) Water Sampled: 07/23/03 14:10 Received: 07/24/03 16:25									
Ethanol	ND	100	ug/l	1	3G26006	07/26/03	07/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-09
Methyl tert-butyl ether	14	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	0.54	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	120	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>113 %</i>	<i>78-129</i>						



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
AR-1 (MMG0592-05) Water Sampled: 07/23/03 13:05 Received: 07/24/03 16:25										
Ethanol	ND	100		ug/l	1	3G26006	07/26/03	07/26/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-09
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50		"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

111 % 78-129

AR-2 (MMG0592-06) Water Sampled: 07/23/03 13:35 Received: 07/24/03 16:25

Ethanol	ND	100		ug/l	1	3G26006	07/26/03	07/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-09
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50		"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

109 % 78-129

UR S Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
ADR-1 (MMG0592-07) Water Sampled: 07/23/03 13:50 Received: 07/24/03 16:25										
Ethanol	ND	100		ug/l	1	3G26006	07/26/03	07/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-09
Methyl tert-butyl ether	4.0	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
Benzene	2.5	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	0.56	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50		"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 113 % 78-129 " " " "
ADR-2 (MMG0592-08) Water Sampled: 07/23/03 15:40 Received: 07/24/03 16:25

Ethanol	ND	100		ug/l	1	3G26006	07/26/03	07/27/03	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-09
Methyl tert-butyl ether	8.4	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
Benzene	2.8	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	5.0	0.50		"	"	"	"	"	"	
Xylenes (total)	0.98	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	140	50		"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 78-129 " " " "



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC*	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-------	-------------	-----	-----------	-------

Batch 3G26006 - EPA 5030B P/T

Blank (3G26006-BLK1)

Prepared & Analyzed: 07/26/03

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							O-09
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.69		"	5.00		114	78-129			

Laboratory Control Sample (3G26006-BS1)

Prepared & Analyzed: 07/26/03

Methyl tert-butyl ether	12.3	0.50	ug/l	10.0		123	63-137			
Benzene	10.1	0.50	"	10.0		101	78-124			
Toluene	10.2	0.50	"	10.0		102	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.55		"	5.00		111	78-129			

Laboratory Control Sample (3G26006-BS2)

Prepared & Analyzed: 07/26/03

Methyl tert-butyl ether	7.64	0.50	ug/l	9.92		77.0	63-137			
Benzene	5.06	0.50	"	6.40		79.1	78-124			
Toluene	29.8	0.50	"	29.7		100	78-129			
Gasoline Range Organics (C6-C10)	464	50	"	440		105	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.77		"	5.00		115	78-129			



URS Corporation [Arco]
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3G26006 - EPA 5030B P/T

Matrix Spike (3G26006-MS1)		Source: MMG0592-03		Prepared: 07/26/03		Analyzed: 07/27/03	
Methyl tert-butyl ether	93.2	5.0	ug/l	99.2	1.6	92.3	63-137
Benzene	150	5.0	"	64.0	100	78.1	78-124
Toluene	287	5.0	"	297	5.7	94.7	78-129
Gasoline Range Organics (C6-C10)	5420	500	"	4400	900	103	70-113
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.51</i>		<i>"</i>	<i>5.00</i>		<i>110</i>	<i>78-129</i>
Matrix Spike Dup (3G26006-MSD1)		Source: MMG0592-03		Prepared: 07/26/03		Analyzed: 07/27/03	
Methyl tert-butyl ether	92.5	5.0	ug/l	99.2	1.6	91.6	63-137 0.754 13
Benzene	152	5.0	"	64.0	100	81.2	78-124 1.32 12
Toluene	296	5.0	"	297	5.7	97.7	78-129 3.09 10
Gasoline Range Organics (C6-C10)	5520	500	"	4400	900	105	70-113 1.83 9
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.38</i>		<i>"</i>	<i>5.00</i>		<i>108</i>	<i>78-129</i>



URS Corporation [Arco]
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Project: ARCO #2169, Oakland, CA
Project Number: INTRIM-50325
Project Manager: Scott Robinson

MMG0592
Reported:
08/08/03 11:47

Notes and Definitions

- O-09 The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Chain of Custody Record

Project Name 030723-MG1
 BP BU/GEM CO Portfolio:
 BP Laboratory Contract Number:

On-site Time: _____ Temp: _____
 Off-site Time: _____ Temp: _____
 Sky Conditions: _____
 Meteorological Events: _____
 Wind Speed: _____ Direction: _____

Date: 7/23/03 Requested Due Date (mm/dd/yyyy) STANDARD - MMGD592

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 889 W. GRAND AVE. OAKLAND, CA	Address: 500 12th St, Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 2169	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0800100112	Consultant/Contractor Project No.: JS-00002169.01 00427
Lab PM: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-3280/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No: INTRIM -50325

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis						Sample Point Lat/Long and Comments	
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	CPH-DEX (8260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE EPE, TBA (8260)	1,2-DCA & EDB (8260)		Ethanol (8260)
1	✓ A-1	1520		X			01	3					X		X					
2	✓ A-2	1210		X			02	3					X		X					
3	A-3																			
4	A-4																			
5	✓ A-5	1430		X			03	3					X		X					
6	✓ A-6	1410		X			04	3					X		X					
7	✓ AR-1	1305		X			05	3					X		X					
8	✓ AR-2	1335		X			06	3					X		X					
9	✓ ADR-1	1350		X			07	3					X		X					
10	✓ ADR-2	1540		X			08	3					X		X					

Sampler's Name: <u>Morgan Gilles</u>	Relinquished By / Affiliation: <u>Morgan Gilles / Blamo Tech Services</u>	Date: <u>7/24</u>	Time: <u>15:36</u>	Accepted By / Affiliation: <u>Don 5085</u>	Date: <u>7/24</u>	Time: <u>15:35</u>
Shipment Date:	<u>7/24</u>	<u>15:36</u>	<u>15:36</u>	<u>Don 5085</u>	<u>7/24</u>	<u>15:35</u>
Shipment Method:	<u>UPS 5085</u>	<u>7/24</u>	<u>6:25</u>	<u>Wagner</u>	<u>7/24/03</u>	<u>16:25</u>
Shipment Tracking No:						

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

Seals In Place Yes No
 Temperature Blank Yes No
 Cooler Temperature on Receipt R/C
 Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): TL
 WORKORDER: MHG0592

DATE REC'D AT LAB: 7/24/03
 TIME REC'D AT LAB: 1625
 DATE LOGGED IN: 7-25-03

Drinking water for regulatory purposes: YES / NO
 Wastewater for regulatory purposes: YES / NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASIK #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)			
1. Custody Seal(s)	Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	01	A-C	A-1	(3) Vials	HA	L	7/23/03				
2. Chain-of-Custody	<input checked="" type="checkbox"/> Present / Absent*	02		A-2	}	}	}	}				
3. Traffic Reports or Packing List:	Present / <input checked="" type="checkbox"/> Absent	03		A-5								
4. Airbill:	Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent	04		A-6								
5. Airbill #:		05		AR-1								
		06		AR-2								
		07		ADR-1								
		08	✓	ADR-2								
6. Sample Labels:	<input checked="" type="checkbox"/> Present / Absent											
7. Sample IDs:	<input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody											
8. Sample Condition:	<input checked="" type="checkbox"/> Intact / Broken* / Leaking*											
9. Does information on custody reports, traffic reports and sample labels agree?	<input checked="" type="checkbox"/> Yes / No*											
10. Sample received within hold time:	<input checked="" type="checkbox"/> Yes / No*											
11. Proper Preservatives used:	<input checked="" type="checkbox"/> Yes / No*											
12. Temp Rec. at Lab: Is temp 4 +/- 2°C?	<u>5°C</u> <input checked="" type="checkbox"/> Yes / No***											

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

ATTACHMENT C

HISTORIC GROUNDWATER DATA

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				Total Xylenes (µg/L)	MITBE 8021B* (µg/L)	MITBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)						
A-1	03-24-95	14.16	8.10	ND	6.06	03-24-95	1,200	230	39	34	66	--	--	160		
A-1	06-05-95	14.16	11.13	ND	3.03	06-05-95	1,500	310	27	36	76	--	--	710		
A-1	08-17-95	14.16	11.71	ND	2.45	08-18-95	1,600	470	35	48	110	120	--	240		
A-1	12-04-95	14.16	12.28	ND	1.88	12-04-95	1,200	240	17	25	56	--	120	--		
A-1	03-01-96	14.16	8.78	ND	5.38	03-13-96	1,300	300	74	29	73	100	--	--		
A-1	05-29-96	14.16	9.85	ND	4.31	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters									
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	Not sampled: well sampled semi-annually, during the first and third quarters									
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	Not sampled: well sampled semi-annually, during the first and third quarters									
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	3.46	ND	10.70	11-18-97	54	<0.5	<0.5	<0.5	0.6	27	--	--		
A-1	02-20-98	14.16	7.10	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	3.01	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	--	--	0.68	NP
A-1	10-27-99	14.16	11.37	ND	2.79	10-27-99	110	2.2	<0.5	<0.5	<1	25	--	--	0.80	NP
A-1	01-31-00	14.16	9.44	ND	4.72	01-31-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	1.0	NP

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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)	Ethyl-benzene (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-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	12	--	--		
A-2	12-04-95	14.55	12.74	ND	1.81	12-04-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	03-01-96	14.55	9.34	ND	5.21	03-13-96	<50	<0.5	0.6	<0.5	1.3	<9	--	--		
A-2	05-29-96	14.55	10.40	ND	4.15	05-29-96	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	08-29-96	14.55	11.50	ND	3.05	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	<39	--	--		
A-2	11-21-96	14.55	11.06	ND	3.49	11-21-96	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--		
A-2	03-26-97	14.55	11.12	ND	3.43	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	05-21-97	14.55	11.58	ND	2.97	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	08-08-97	14.55	11.82	ND	2.73	08-08-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	11-18-97	14.55	3.33	ND	11.22	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	02-20-98	14.55	7.68	ND	6.87	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-2	05-11-98	14.55	10.45	ND	4.10	05-11-98	Not sampled									
A-2	07-30-98	14.55	11.23	ND	3.32	07-30-98	Not sampled: well sampled semi-annually, during the first and second quarters									
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	93	<0.5	<0.5	<0.5	<1	26	--	--		
A-2	05-26-99	14.55	11.16	ND	3.39	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-2	08-23-99	14.55	11.69	ND	2.86	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters									
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	<50	<0.5	<0.5	<0.5	<1	<3	--	--	1.0	NP

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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			Ethyl-benzene (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)
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)							
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	5.85	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-29-96	15.75	11.08	ND	4.67	05-29-96	Not sampled: well sampled annually									
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	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-21-97	15.75	12.35	ND	3.40	05-21-97	Not sampled: well sampled annually									
A-3	08-08-97	15.75	12.62	ND	3.13	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	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-11-98	15.75	11.19	ND	4.56	05-11-98	Not sampled: well sampled annually									
A-3	07-30-98	15.75	12.05	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	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	08-23-99	15.75	12.57	ND	3.18	08-23-99	Not sampled: well sampled annually									
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	9.55	ND	6.20	01-31-00	<50	<0.5	<0.5	<0.5	<1	9	--	--	1.0	NP

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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)	Ethyl-benzene (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-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	3.55	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	8.55	ND	6.70	03-13-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
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	<3	--	--		
A-4	05-21-97	15.25	11.51	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	6.25	ND	9.00	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
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	<3	--	--		
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	<1	4	--	--	1.0	NP

Table 1
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Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH				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)	
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)							
A-5	03-24-95	13.51	7.40	ND	6.11	03-24-95	3,300	200	310	130	460	--	--	--			
A-5	06-05-95	13.51	10.43	ND	3.08	06-05-95	57,000	2,700	4,600	1,500	6,800	--	--	--			
A-5	08-17-95	13.51	11.15	ND	2.36	08-18-95	34,000	1,600	2,700	1,100	5,100	<28	--	--			
A-5	12-04-95	13.51	11.42	ND	2.09	12-04-95	61	<0.5	<0.5	<0.5	<0.5	--	--	--			
A-5	03-01-96	13.51	8.11	ND	5.40	03-13-96	11,000	860	960	380	1,600	<100	--	--			
A-5	05-29-96	13.51	9.30	ND	4.21	05-29-96	19,000	1,600	1,900	880	3,300	<100	--	--			
A-5	08-29-96	13.51	10.60	ND	2.91	08-29-96	7,700	490	450	260	990	<30	--	--			
A-5	11-21-96	13.51	10.05	ND	3.46	11-21-96	8,000	450	550	340	1,100	<30	--	--			
A-5	03-26-97	13.51	9.87	ND	3.64	03-26-97	3,100	190	140	130	340	<30	--	--			
A-5	05-21-97	13.51	10.25	ND	3.26	05-21-97	16,000	1,500	900	700	2,700	<120	--	--			
A-5	08-08-97	13.51	10.42	ND	3.09	08-08-97	9,000	690	240	440	1,300	<30	--	--			
A-5	11-18-97	13.51	Not surveyed: well inaccessible														
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	02-18-99	<50	0.8	<0.5	<0.5	1.5	<10	--	--			
A-5	05-26-99	13.51	9.85	ND	3.66	05-26-99	1,700	240	41	110	330	<12	--	--			
A-5	08-23-99	13.51	10.60	ND	2.91	08-23-99	560	65	3	30	52	<6	--	--	0.73	NP	
A-5	10-27-99	13.51	10.72	ND	2.79	10-27-99	480	93	1.0	16	19	<3	--	--	0.65	NP	
A-5	01-31-00	13.51	9.37	ND	4.14	01-31-00	Not sampled: well was inaccessible										

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Well Number	Date Gauged	TOC	Depth	FP	Groundwater	Date Sampled	TPH			Ethyl-benzene (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)
		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation (ft-MSL)		Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)							
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	<0.5	--	--	--		
A-6	08-17-95	13.51	11.10	ND	2.41	08-18-95	530	<0.5	<0.5	<2.4	<4.2	6	--	--		
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	<3	<15	<7	<10	<20	--	--		
A-6	05-29-96	13.51	9.25	ND	4.26	05-29-96	410	<2	<2	<2	<2	3	--	--		
A-6	08-29-96	13.51	10.52	ND	2.99	08-29-96	80	<0.5	<0.5	<0.5	<0.5	6	--	--		
A-6	11-21-96	13.51	10.54	ND	2.97	11-21-96	62	<0.5	<0.5	<0.5	<0.5	12	--	--		
A-6	03-26-97	13.51	9.93	ND	3.58	03-26-97	110	<0.5	0.8	1	1.4	15	--	--		
A-6	05-21-97	13.51	10.54	ND	2.97	05-21-97	600	0.6	0.6	<2	2.7	<3	--	--		
A-6	08-08-97	13.51	10.77	ND	2.74	08-08-97	850	<0.5	<0.5	6.1	<0.5	<4	--	--		
A-6	11-18-97	13.51	3.41	ND	10.10	11-18-97	690	<1	<1	3	2	7	--	--		
A-6	02-20-98	13.51	6.73	ND	6.78	02-20-98	60	<0.5	0.6	1.3	0.5	4	--	--		
A-6	05-11-98	13.51	9.26	ND	4.25	05-11-98	140	<0.5	0.7	0.6	<0.5	6	--	--		
A-6	07-30-98	13.51	10.12	ND	3.39	07-30-98	910	<2	<2	3	7	34	--	--		
A-6	10-08-98	13.51	10.53	ND	2.98	10-08-98	1,300	<2	4	3	4	21	--	--		
A-6	02-18-99	13.51	7.50	ND	6.01	02-18-99	150	<0.5	<0.5	1.4	1.7	35	--	--		
A-6	05-26-99	13.51	10.00	ND	3.51	05-26-99	100	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-6	08-23-99	13.51	10.70	ND	2.81	08-23-99	98	0.6	<0.5	1.1	4.3	13	--	--	2.42	NP
A-6	10-27-99	13.51	11.00	ND	2.51	10-27-99	<50	<0.5	<0.5	<0.5	<1	7	--	--	13.23	NP
A-6	01-31-00	13.51	9.31	ND	4.20	01-31-00	<50	<0.5	<0.5	<0.5	<1	9	--	--	1.0	NP

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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)	Ethyl-benzene (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)
AR-1	03-24-95	15.61	7.25	ND	8.36	03-24-95	270	14	0.6	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	<3	--	--		
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	<3	--	--		
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	0.7	<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	160	--	--		
AR-1	05-11-98	15.61	10.93	ND	4.68	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	4	--	--		
AR-1	07-30-98	15.61	11.82	ND	3.79	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--		
AR-1	10-08-98	15.61	12.24	ND	3.37	10-08-98	<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	<1.0	<10	--	--		
AR-1	05-26-99	15.61	11.62	ND	3.99	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
AR-1	08-23-99	15.61	9.32	ND	6.29	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters									
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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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	4	--	<50			
AR-2	12-04-95	15.28	11.44	ND	3.84	12-13-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--			
AR-2	03-01-96	15.28	9.83	ND	5.45	03-13-96	190	26	2.6	3.3	13	200	--	--			
AR-2	05-29-96	15.28	10.97	ND	4.31	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	08-29-96	15.28	12.20	ND	3.08	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	95	--	--			
AR-2	11-21-96	15.28	11.57	ND	3.71	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	03-26-97	15.28	11.60	ND	3.68	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	9	--	--			
AR-2	05-21-97	15.28	12.12	ND	3.16	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	08-08-97	15.28	12.35	ND	2.93	08-08-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	11-18-97	15.28	3.48	ND	11.80	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters										
AR-2	02-20-98	15.28	8.00	ND	7.28	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	43	--	--			
AR-2	05-11-98	15.28	10.97	ND	4.31	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
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	<1.0	<10	--	--			
AR-2	05-26-99	15.28	11.72	ND	3.56	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	08-23-99	15.28	12.31	ND	2.97	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters										0.61
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										
AR-2	01-31-00	15.28	10.31	ND	4.97	01-31-00	Not sampled										

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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)	Ethyl-benzene (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)
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	11.86	ND	2.09	08-18-95	4,400	150	120	95	620	--	--	4,500		
ADR-1	12-04-95	13.95	10.05	ND	3.90	12-13-95	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	8,100	<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	10.49	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	6.15	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	1.8	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	3.13	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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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)	Ethyl-benzene (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)	
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	5.90	03-13-96	29,000	1,100	1,200	710	3,800	<500	--	--			
ADR-2	05-29-96	14.64	10.43	ND	4.21	05-29-96	33,000	510	500	470	2,300	120	--	--			
ADR-2	08-29-96	14.64	11.64	ND	3.00	08-29-96	8,000	230	180	150	730	53	--	--			
ADR-2	11-21-96	14.64	11.23	ND	3.41	11-21-96	15,000	630	440	390	2,100	75	--	--			
ADR-2	03-26-97	14.64	11.13	ND	3.51	03-26-97	6,100	320	23	180	400	32	--	--			
ADR-2	05-21-97	14.64	11.64	ND	3.00	05-21-97	6,100	380	22	210	320	<30	--	--			
ADR-2	08-08-97	14.64	11.85	ND	2.79	08-08-97	8,400	380	35	230	910	<30	--	--			
ADR-2	11-18-97	14.64	3.33	ND	11.31	11-18-97	11,000	230	29	300	1,200	<60	--	--			
ADR-2	02-20-98	14.64	7.67	ND	6.97	02-20-98	4,700	320	30	130	360	20	--	--			
ADR-2	05-11-98	14.64	10.47	ND	4.17	05-11-98	Not sampled										
ADR-2	07-30-98	14.64	Not surveyed: well inaccessible														
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	5	340	104	16	--	--			
ADR-2	08-23-99	14.64	9.82	ND	4.82	08-23-99	9,100	570	12	410	1,000	28	--	--			
ADR-2	10-27-99	14.64	9.85	Sheen	4.79	10-27-99	Not sampled: sheen present										
ADR-2	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	

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**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)	Ethyl-benzene (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)
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TOC: top of casing

ft-MSL: elevation in feet, relative to mean sea level

TPH: total petroleum hydrocarbons, California DHS LUFT Method

BTEX: benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).

MTBE: Methyl tert-butyl ether

µg/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.

{1}: well contained more than 3 feet of floating product, exact product thickness and groundwater elevation could 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, 889 West Grand Avenue, Oakland, California, (EMCON, March 4, 1996).*

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

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

08/13/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #2169, Oakland, CA
Work Order Number:	MMG0592
Global ID:	T0600100112
Lab Report Number:	MMG0592080820031147

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MMG05920808200 A-1 31147		MMG059201	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/26/03	3G26006	1
MMG05920808200 A-2 31147		MMG059202	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/26/03	3G26006	1
MMG05920808200 A-5 31147		MMG059203	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/26/03	3G26006	1
MMG05920808200 A-6 31147		MMG059204	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/26/03	3G26006	1
MMG05920808200 ADR-1 31147		MMG059207	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/27/03	3G26006	1
MMG05920808200 ADR-2 31147		MMG059208	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/27/03	3G26006	1
MMG05920808200 AR-1 31147		MMG059205	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/26/03	3G26006	1
MMG05920808200 AR-2 31147		MMG059206	W	CS	8260FAB	SW5030B	07/23/03	07/26/03	07/27/03	3G26006	1
		3G26006BS1	WQ	BS1	8260FAB	SW5030B		07/26/03	07/26/03	3G26006	1
		3G26006BS2	WQ	BS2	8260FAB	SW5030B		07/26/03	07/26/03	3G26006	1
		3G26006BLK1	WQ	LB1	8260FAB	SW5030B		07/26/03	07/26/03	3G26006	1
		3G26006MS1	W	MS1	8260FAB	SW5030B		07/26/03	07/27/03	3G26006	1
		3G26006MSD1	W	SD1	8260FAB	SW5030B		07/26/03	07/27/03	3G26006	1

EDFSAMP: Error Summary Log

08/13/03

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

08/13/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

EDFRES: Error Summary Log

08/13/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3G26006MS1	MS1	W	8260FAB	PR	07/27/03	1	DCA12D4
Warning: extra parameter	3G26006MS1	MS1	W	8260FAB	PR	07/27/03	1	GROC6C10
Warning: extra parameter	3G26006MSD1	SD1	W	8260FAB	PR	07/27/03	1	DCA12D4
Warning: extra parameter	3G26006MSD1	SD1	W	8260FAB	PR	07/27/03	1	GROC6C10
Warning: extra parameter	MMG059201	CS	W	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	MMG059201	CS	W	8260FAB	PR	07/26/03	1	GROC6C10
Warning: extra parameter	MMG059202	CS	W	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	MMG059202	CS	W	8260FAB	PR	07/26/03	1	GROC6C10
Warning: extra parameter	MMG059203	CS	W	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	MMG059203	CS	W	8260FAB	PR	07/26/03	1	GROC6C10
Warning: extra parameter	MMG059204	CS	W	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	MMG059204	CS	W	8260FAB	PR	07/26/03	1	GROC6C10
Warning: extra parameter	MMG059205	CS	W	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	MMG059205	CS	W	8260FAB	PR	07/26/03	1	GROC6C10
Warning: extra parameter	MMG059206	CS	W	8260FAB	PR	07/27/03	1	DCA12D4
Warning: extra parameter	MMG059206	CS	W	8260FAB	PR	07/27/03	1	GROC6C10
Warning: extra parameter	MMG059207	CS	W	8260FAB	PR	07/27/03	1	DCA12D4
Warning: extra parameter	MMG059207	CS	W	8260FAB	PR	07/27/03	1	GROC6C10
Warning: extra parameter	MMG059208	CS	W	8260FAB	PR	07/27/03	1	DCA12D4
Warning: extra parameter	MMG059208	CS	W	8260FAB	PR	07/27/03	1	GROC6C10
Warning: extra parameter	3G26006BLK1	LB1	WQ	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	3G26006BLK1	LB1	WQ	8260FAB	PR	07/26/03	1	GROC6C10
Warning: extra parameter	3G26006BS1	BS1	WQ	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	3G26006BS2	BS2	WQ	8260FAB	PR	07/26/03	1	DCA12D4
Warning: extra parameter	3G26006BS2	BS2	WQ	8260FAB	PR	07/26/03	1	GROC6C10

EDFQC: Error Summary Log

08/13/03

Error type	Lablotctl	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

08/13/03

Error type	Clevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

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Confirmation Number: 7396148502

Date/Time of Submittal: 8/13/2003 10:53:46 AM

Facility Global ID: T0600100112

Facility Name: ARCO # 02169

Submittal Title: 3rd Qtr 2003 Monitoring Report

Submittal Type: GW Monitoring Report

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