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March 22, 2004

Alameda County
MAR 30 2004
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: First Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California
URS Project #38486719**

Dear Mr. Chen:

On behalf of Atlantic Richfield Company (ARCO – a BP affiliated company), URS Corporation (URS) is submitting the *First Quarter 2004 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: First Quarter 2004 Groundwater Monitoring Report

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



Atlantic Richfield Company
(a BP affiliated company)

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

Alameda County
MAR 30 2004
Environmental Health

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RE: First Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California
URS Project #38486719

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



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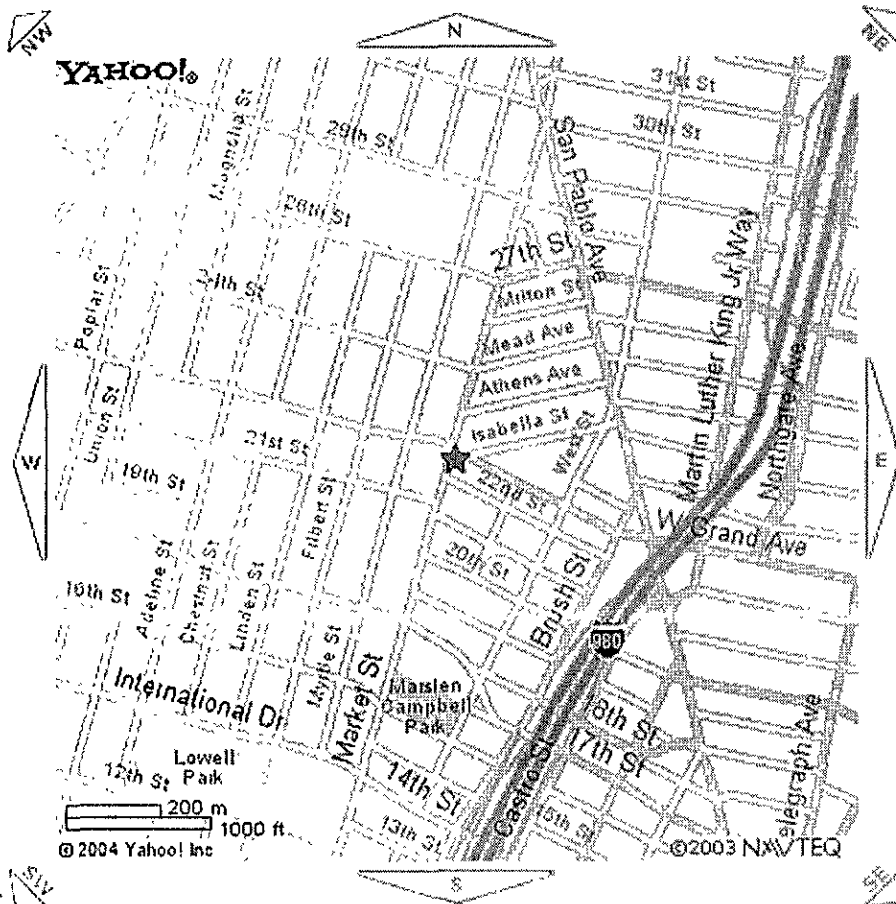
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★ 889 W Grand Ave Oakland, CA 94607-3453

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R E P O R T

**FIRST QUARTER 2004
GROUNDWATER MONITORING**

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

Prepared for
Atlantic Richfield Company

March 22, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486719

Date: March 22, 2004
Quarter: 1Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 2169 Address: 889 West Grand Avenue, Oakland, California
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486719
Primary Agency: Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (First – 2004):

1. Performed first quarter 2004 groundwater monitoring event on February 16, 2004.
2. Prepared and submitted first quarter 2004 groundwater monitoring report.
3. Site resurveyed on January 30, 2004 (Attachment E).
4. Well repairs done on January 20, 2004 (Attachment F).

WORK PROPOSED FOR NEXT QUARTER (Second – 2004):

1. Perform second quarter 2004 groundwater monitoring event.
2. Prepare and submit second quarter 2004 groundwater monitoring report.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Beginning fourth quarter 2003:
Annual: (3rd Quarter): A-2, AR-1, AR-2, ADR-2
Quarterly: A-1, A-5, A-6 and ADR-1
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, AR-2, and ADR-1
Approximate Depth to Groundwater: 9.43 (ADR-1) to 10.94 (A-3) feet
Groundwater Gradient (direction): Southwest
Groundwater Gradient (magnitude): 0.009 feet per foot

DISCUSSION:

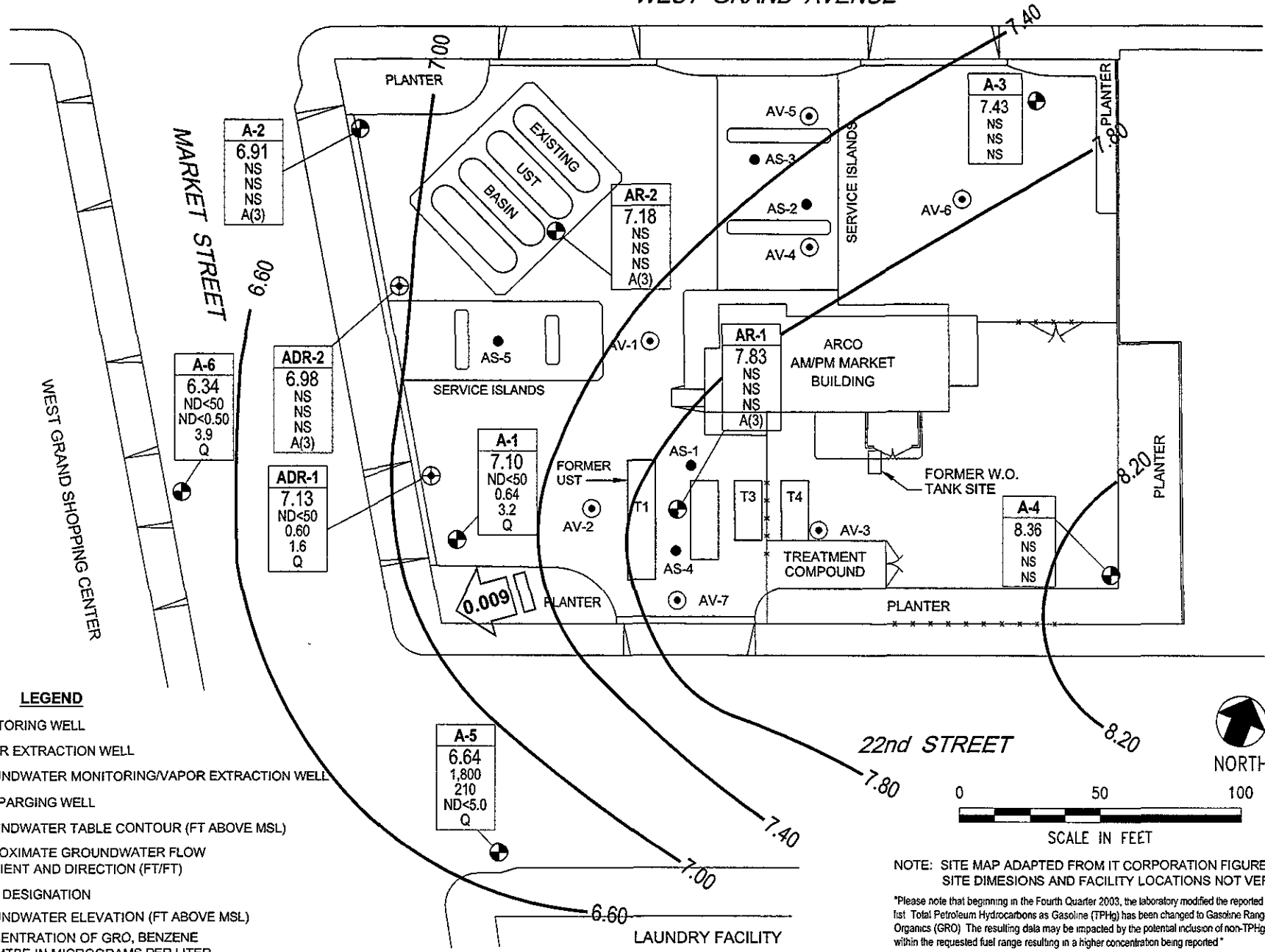
Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a

higher concentration being reported. GRO was detected above the laboratory reporting limit in three of the four wells sampled this quarter at a concentrations ranging from 50 micrograms per liter ($\mu\text{g/L}$) (A-6) to 680 $\mu\text{g/L}$ (A-5). Benzene was detected above the laboratory reporting limit in two wells at concentrations of 18 $\mu\text{g/L}$ in well A-1 and 52 $\mu\text{g/L}$ in well A-5. MTBE was detected above the laboratory reporting limit in three wells at concentrations ranging from 1.6 $\mu\text{g/L}$ (ADR-1) to 3.9 $\mu\text{g/L}$ (A-6).

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – February 16, 2004
- 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 Report and EDF/GEOWELL Submittal Confirmation
- Attachment E - Well Survey Data
- Attachment F - Well Repair Data

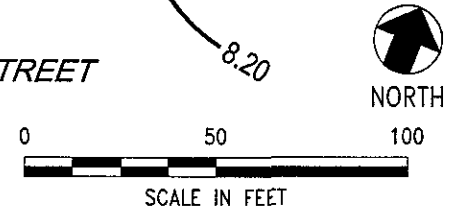
WEST GRAND AVENUE



LEGEND

- MONITORING WELL
- VAPOR EXTRACTION WELL
- GROUNDWATER MONITORING/VAPOR EXTRACTION WELL
- AIR SPARGING WELL
- 7.00 GROUNDWATER TABLE CONTOUR (FT ABOVE MSL)
- APPROXIMATE GROUNDWATER FLOW GRADIENT AND DIRECTION (FT/FT)

Well	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION (FT ABOVE MSL)
GRO	CONCENTRATION OF GRO, BENZENE AND MTBE IN MICROGRAMS PER LITER
Benzene	
MTBE	
Q or A	SAMPLING FREQUENCY
A(3)	SAMPLED ANNUALLY, 3RD QUARTER
ND<	NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT



NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED
 Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list: Total Petroleum Hydrocarbons as Gasoline (TPHg) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in a higher concentration being reported

URS	Project No. 38486719	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP	FIGURE 1
	Arco Service Station 2169 889 West Grand Avenue Oakland, California		

**Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled	TOC Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO/TPH-g (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 ^f
AR-1	06/26/00	15.61	5.0	NA	30.0	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	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3	7.7
	11/13/03					12.05	3.56	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/04 ⁱ		18.18				10.35	7.83	NS	NS	NS	NS	NS	NS	NS
AR-2	06/26/00	15.28	5.0	NA	28.5	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	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3	8.2
	11/13/03 ^f					11.98	3.30	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/04 ^{h,i}		17.87				10.69	7.18	NS	NS	NS	NS	NS	NS	NS

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Well Number	Date Sampled	TOC Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO/TPH-g (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 ^f
ADR-1	06/26/00	13.95	9.0	29.5	29.5	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
	11/13/03 ^f					11.15	2.80	ND<50	0.60	ND<0.50	ND<0.50	ND<0.50	1.6	8.5	8.2
	02/16/04 ⁴⁴	16.56				9.43	7.13	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.6	5.5	9.6
ADR-2	06/26/00	14.64	8.0	28.0	28.0	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
	11/13/03 ^f					11.68	2.96	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/04 ⁴⁴	17.24				10.26	6.98	NS	NS	NS	NS	NS	NS	NS	NS

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Oakland, California

Well Number	Date Sampled	TOC Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO/TPH-g (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
A-1	06/26/00	14.16	8.0	28.0	28.0	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
	11/13/03 ^f					11.35	2.81	ND<50	0.64	ND<0.50	ND<0.50	ND<0.50	4.2	4.3	7.8
	02/16/04 ^g	16.75				9.65	7.10	99	18	ND<0.50	1.2	0.96	3.2	7.2	7.6
A-2	06/26/00	14.55	8.5	28.5	29.3	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 ^e	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
	11/13/03					11.60	2.95	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/04 ⁱ	17.18				10.27	6.91	NS	NS	NS	NS	NS	NS	NS	NS

**Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled	TOC Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissoived Oxygen ^f (mg/L)	pH ^f
A-3	06/26/00	15.75	5.0	NA	21.9	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	1.2	6.9
	05/22/03					11.42	4.33	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03					12.00	3.75	NS	NS	NS	NS	NS	NS	NS	NS
	11/13/03 ^e					NM	NC	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/04 ^f	18.37				10.94	7.43	NS	NS	NS	NS	NS	NS	NS	NS
A-4	06/26/00	15.25	5.0	NA	26.3	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	0.9	7.1
	05/22/03					10.42	4.83	NS	NS	NS	NS	NS	NS	NS	NS
	07/23/03					11.02	4.23	NS	NS	NS	NS	NS	NS	NS	NS
	11/13/03 ^e					NM	NC	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/04 ^f	18.01				9.65	8.36	NS	NS	NS	NS	NS	NS	NS	NS

**Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled	TOC Elevation (ft., MSL)	Top of Screen (ft., bgs)	Bottom of Screen (ft., bgs)	Bottom of Casing (ft., bgs)	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft)	GRO/TPH-g (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 ^f
A-5	06/26/00	13.51	9.0	NA	25.0	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
	11/13/03 ^f					11.24	2.27	1,800	210	5.1	190	140	ND<5.0	4.3	7.3
	02/16/04 ^{h,i}	16.09				9.45	6.64	680	52	15	50	77	ND<0.50	5.0	7.8
A-6	06/26/00	13.51	10.0	NA	25.0	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
	11/13/03 ^f					11.20	2.31	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.3	6.2	9.0
	02/16/04 ^{h,i}	16.10				9.76	6.34	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.9	6.5	8.3

Table 1
Groundwater Elevation and Analytical Data

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

Note: Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

ft = Feet
GRO = Gasoline Range Organics
mg/L = Milligrams per liter
µg/L = Micrograms per liter
MSL = Mean Sea Level
MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted
NA = Not analyzed, not available, not applicable
NC = Not calculated
ND< = Not detected at or above specified laboratory reporting limit
NM = Not measured
NS = Not sampled
TOC = Top of Casing
TPH = Total Petroleum Hydrocarbons
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
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

Source: The data within this table collected prior to August 2002 was provided to URS by Atlantic Richfield 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
11/13/03	Southwest	0.009
02/16/04	Southwest	0.009

Source: The data within this table collected prior to August 2002 was provided to URS by Atlantic Richfield 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
	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
	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
	11/13/03	ND<100	ND<20	1.6	ND<0.50	ND<0.50	ND<0.50	NA	NA
	02/16/04	ND<100	ND<20	1.6	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
	11/13/03	ND<100	ND<20	4.2	ND<0.50	ND<0.50	ND<0.50	NA	NA
	02/16/04	ND<100	ND<20	3.2	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
	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
A-4	02/12/03	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
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
	11/13/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA
	02/16/04	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
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
	11/13/03	ND<100	ND<20	2.3	ND<0.50	ND<0.50	ND<0.50	NA	NA
	02/03/04	ND<100	ND<20	3.9	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

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

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 # 040216-SS2 Date 2/16/04 Client MPCO/BP 2169

Site 869 W. GRANDE 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	
* A-1	3					9.65	23.72	TOC	S
A-2	3					10.27	24.56		
A-3	3					10.94	28.35		
A-4	3					9.65	27.60		
A-5	2	removed	occ prior to gauge			9.45	24.12		MPS'
A-6	2	removed	occ prior to gauge			9.76	26.97		MPS'
AR-1	6					10.35	27.44		
* AR-2	4					10.69	28.59		
* ADR-1	4					9.43	21.90		MPS'
ADR-2	4					10.26	26.30		
* GAMBRO w/ OOC in well.									

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040216-552</u>	Station # <u>2169</u>
Sampler: <u>COOCL</u>	Date: <u>2/16/04</u>
Well I.D.: <u>A-1</u>	Well Diameter: 2 <u>(3)</u> 4 6 8 _____
Total Well Depth: <u>23.12</u>	Depth to Water: <u>9.65</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

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

Purge Method: <u>Bailer</u> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> 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>5.2</u>	x	<u>3</u>	=	<u>15.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1450	66.7	7.5	783	5.2	MPBD
1455	67.5	7.6	860	10.4	clearing
1500	67.6	7.6	880	15.6	clear

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>15.6</u>
Sampling Time: <u>1505</u>	Sampling Date: <u>2/16/04</u>
Sample I.D.: <u>A-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>(TPH-G BTEX)</u> MTBE TPH-D Other: <u>OX'S, LODS, 1,2-DCA & ETHANOL ALB/8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>7.2</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040216-552</u>	Station # <u>2169</u>
Sampler: <u>SOCCD</u>	Date: <u>2/16/04</u>
Well I.D.: <u>A-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.12</u>	Depth to Water: <u>9.45</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

<u>GRAB</u>	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1440	63.1	7.8	1193	_____	<u>GRAB</u>

Did well dewater? Yes No _____ Gallons actually evacuated: _____

Sampling Time: 1440 Sampling Date: 2/16/04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: XY'S, EDB, 1,2 DCA & ETHANOL ALL BY 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 5.0 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040216-552</u>	Station # <u>2169</u>
Sampler: <u>SOECL</u>	Date: <u>2/16/04</u>
Well I.D.: <u>A-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>26.97</u>	Depth to Water: <u>9.76</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

<u>GRAB</u>	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1430	65.5	8.3	1192	—	clear

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Time: 1430 Sampling Date: 2/16/04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: CH₄S, GDB, 1,2-DCA, ETHANOL ALBY 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 6.5 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040216-552</u>	Station # <u>2169</u>
Sampler: <u>SOCC</u>	Date: <u>2/16/04</u>
Well I.D.: <u>APR-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>21.90</u>	Depth to Water: <u>9.43</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

<u>GRAB</u>	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1420	66.3	9.6	1349	—	clear

Did well dewater? Yes ~~No~~ Gallons actually evacuated: _____

Sampling Time: 1420 Sampling Date: 2/16/04
 Sample I.D.: APR-1 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: 0.4'S, 6DB, 1,2 DCA, ETHANOL ALLBY 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	5.5	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

BP GEM OIL COMPANY TYPE A BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is PLAINE 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:

2167		
Station #		
889 W. GRAND AVE. OAKLAND		
Station Address		
Total Gallons Collected From Groundwater Monitoring Wells:		
added equip. rinse water _____	any other adjustments _____	
TOTAL GALS. RECOVERED <u>10</u>	loaded onto BTS vehicle # <u>54</u>	
BTS event # <u>040216-552</u>	time <u>1510</u>	date <u>2/16/04</u>
signature <u>[Signature]</u>		

REC'D AT <u>BTS</u>	time <u>1700</u>	date <u>2/16/04</u>
unloaded by signature <u>[Signature]</u>		

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 Atlantic Richfield Company have been reviewed and verified by that laboratory.



3 March, 2004

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

RE: ARCO #2169, Oakland, CA
Work Order: MNB0497

Enclosed are the results of analyses for samples received by the laboratory on 02/17/04 15:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley For Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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

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

MNB0497
Reported:
03/03/04 18:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	MNB0497-01	Water	02/16/04 15:05	02/17/04 15:15
A-5	MNB0497-02	Water	02/16/04 14:40	02/17/04 15:15
A-6	MNB0497-03	Water	02/16/04 14:30	02/17/04 15:15
ADR-1	MNB0497-04	Water	02/16/04 14:20	02/17/04 15:15



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

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

MNB0497
Reported:
03/03/04 18:41

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
A-1 (MNB0497-01) Water Sampled: 02/16/04 15:05 Received: 02/17/04 15:15										
Ethanol	ND	100		ug/l	1	4B27041	02/27/04	02/28/04	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Methyl tert-butyl ether	3.2	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	18	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	1.2	0.50		"	"	"	"	"	"	
Xylenes (total)	0.96	0.50		"	"	"	"	"	"	
Gasoline Range Organics	99	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.8 %		78-129		"	"	"	"	
A-5 (MNB0497-02) Water Sampled: 02/16/04 14:40 Received: 02/17/04 15:15										
Ethanol	ND	100		ug/l	1	4B27041	02/27/04	02/28/04	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
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	52	0.50		"	"	"	"	"	"	
Toluene	15	0.50		"	"	"	"	"	"	
Ethylbenzene	50	0.50		"	"	"	"	"	"	
Xylenes (total)	77	0.50		"	"	"	"	"	"	
Gasoline Range Organics	680	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %		78-129		"	"	"	"	

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

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

MNB0497
Reported:
03/03/04 18:41

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
A-6 (MNB0497-03) Water Sampled: 02/16/04 14:30 Received: 02/17/04 15:15									
Ethanol	ND	100	ug/l	1	4B27041	02/27/04	02/28/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	3.9	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	50	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.0 %	78-129	"	"	"	"	"	
ADR-1 (MNB0497-04) Water Sampled: 02/16/04 14:20 Received: 02/17/04 15:15									
Ethanol	ND	100	ug/l	1	4B27041	02/27/04	02/28/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.6	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	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.6 %	78-129	"	"	"	"	"	



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

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

MNB0497
 Reported:
 03/03/04 18:41

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 4B27041 - EPA 5030B P/T

Blank (4B27041-BLK1)

Prepared: 02/27/04 Analyzed: 02/28/04

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
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	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4 4.79 " 5.00 95.8 78-129

Laboratory Control Sample (4B27041-BS1)

Prepared: 02/27/04 Analyzed: 02/28/04

Ethanol	194	100	ug/l	200		97.0	31-143			
tert-Butyl alcohol	49.9	20	"	50.0		99.8	56-131			
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137			
Di-isopropyl ether	9.83	0.50	"	10.0		98.3	76-130			
Ethyl tert-butyl ether	10.6	0.50	"	10.0		106	81-121			
tert-Amyl methyl ether	10.3	0.50	"	10.0		103	82-140			
1,2-Dichloroethane	10.3	0.50	"	10.0		103	77-136			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	77-132			
Benzene	9.95	0.50	"	10.0		99.5	78-124			
Toluene	10.5	0.50	"	10.0		105	78-129			
Ethylbenzene	9.30	0.50	"	10.0		93.0	84-117			
Xylenes (total)	28.7	0.50	"	30.0		95.7	83-125			

Surrogate: 1,2-Dichloroethane-d4 4.78 " 5.00 95.6 78-129

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

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

 MNB0497
 Reported:
 03/03/04 18:41

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 4B27041 - EPA 5030B P/T
Laboratory Control Sample (4B27041-BS2)

Prepared: 02/27/04 Analyzed: 02/28/04

Methyl tert-butyl ether	9.37	0.50	ug/l	10.1		92.8	63-137			
Benzene	5.85	0.50	"	6.48		90.3	78-124			
Toluene	36.2	0.50	"	29.7		122	78-129			
Ethylbenzene	7.38	0.50	"	7.20		102	84-117			
Xylenes (total)	38.2	0.50	"	33.7		113	83-125			
Gasoline Range Organics	392	50	"	440		89.1	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.94</i>		<i>"</i>	<i>5.00</i>		<i>98.8</i>	<i>78-129</i>			

Laboratory Control Sample Dup (4B27041-BSD1)

Prepared: 02/27/04 Analyzed: 02/28/04

Ethanol	170	100	ug/l	200		85.0	31-143	13.2	20	
tert-Butyl alcohol	49.4	20	"	50.0		98.8	56-131	1.01	20	
Methyl tert-butyl ether	10.5	0.50	"	10.0		105	63-137	2.90	13	
Di-isopropyl ether	9.79	0.50	"	10.0		97.9	76-130	0.408	9	
Ethyl tert-butyl ether	11.0	0.50	"	10.0		110	81-121	3.70	9	
tert-Amyl methyl ether	10.4	0.50	"	10.0		104	82-140	0.966	12	
1,2-Dichloroethane	10.7	0.50	"	10.0		107	77-136	3.81	13	
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0		113	77-132	6.39	9	
Benzene	9.69	0.50	"	10.0		96.9	78-124	2.65	12	
Toluene	9.94	0.50	"	10.0		99.4	78-129	5.48	10	
Ethylbenzene	8.99	0.50	"	10.0		89.9	84-117	3.39	10	
Xylenes (total)	27.7	0.50	"	30.0		92.3	83-125	3.55	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.86</i>		<i>"</i>	<i>5.00</i>		<i>97.2</i>	<i>78-129</i>			

Laboratory Control Sample Dup (4B27041-BSD2)

Prepared: 02/27/04 Analyzed: 02/28/04

Methyl tert-butyl ether	9.62	0.50	ug/l	10.1		95.2	63-137	2.63	13	
Benzene	5.73	0.50	"	6.48		88.4	78-124	2.07	12	
Toluene	34.7	0.50	"	29.7		117	78-129	4.23	10	
Ethylbenzene	6.99	0.50	"	7.20		97.1	84-117	5.43	10	
Xylenes (total)	36.5	0.50	"	33.7		108	83-125	4.55	11	
Gasoline Range Organics	358	50	"	440		81.4	70-113	9.07	9	QR-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.90</i>		<i>"</i>	<i>5.00</i>		<i>98.0</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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

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

MNB0497
Reported:
03/03/04 18:41

Notes and Definitions

QR-07 The RPD was outside control limits. The results may still be useful for their intended purpose.

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

MNBO497

Project Name 2169 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company

On-site Time: 1330 Temp: 55°
 Off-site Time: 1520 Temp: "
 Sky Conditions: cloudy
 Meteorological Events: RAIN
 Wind Speed: _____ Direction: _____

Date: 2/16/04 Requested Due Date (mm/dd/yyyy): 14 day TAT

Send To:	BP/GEM Facility No.: <u>ARCO 2169</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>889 W. GRAND AVE, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 2169</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100112</u>	Consultant/Contractor Project No.: <u>15-00002169.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tel/Fax: <u>510-893-3600/510-874-3268</u>
Tel/Fax: <u>408-776-9800 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1. Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tel/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50325</u>

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	TPH-G / BTEX 5801.5802 * 8260	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE C10-TBA (8260)	L2-DCA & EDB (8260)	
1	A-1	1505	X				01	3					X		X	X			
2	A-5	1440	X				02	3					X		X	X			
3	A-6	1430	X				03	3					X		X	X			
4	APP-1	1420	X				04	3					X		X	X			
5	IR-021604-2169						05												
6	TEMP																		
7																			
8																			
9																			
10																			

Sampler's Name: <u>SOOCH SUNG</u>	Relinquished By / Affiliation:	Date:	Time:	Accepted By / Affiliation:	Date:	Time:
Sampler's Company: <u>ELMITE TECH</u>	<i>[Signature]</i>	<u>2/17/04</u>	<u>1415</u>	<i>[Signature]</i>	<u>2/17/04</u>	<u>1415</u>
Shipment Date:	<i>[Signature]</i>	<u>2/17/04</u>	<u>1515</u>	<u>Helem</u>		
Shipment Method:						
Shipment Tracking No.:						

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

In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 6 °F/C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
 REC-BY (PRINT) NH
 WORKORDER: MNBO497

DATE REC'D AT LAB: 2-17-04
 TIME REC'D AT LAB: 1515
 DATE LOGGED IN: 2-18-04

DRINKING WATER for
 regulatory purposes: YES NO
 WASTE WATER for
 regulatory purposes: YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Intact / Broken*	01		A-1	B) VOS	HCL	L	2-17-04	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	02		A-5	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/>	03		A-6	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / Absent <input checked="" type="checkbox"/>	04		ADR-1	↓	↓	↓	↓	
5. Airbill #:	05		TB-021604-2169	(2) VOS	↓	↓	↓	
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent								
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*								
10. Sample received within hold time: <input checked="" type="checkbox"/> Yes / No*								
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*								
12. Proper Preservatives used: <input checked="" type="checkbox"/> Yes / No*								
13. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / No**								

2-17-04 NH

(Acceptance range for samples requiring thermal pres.)
 **Exception (if any): METALS / OFF ON ICE
 or Problem COC

***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										Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
							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)				
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	--	--	--				
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	--	--				
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	3	--	--	0.80	NP		
													--	--	1.0	NP		

Table 1
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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)
A-2	03-24-95	14.55	8.64	ND	5.91											
A-2	06-05-95	14.55	11.72	ND	2.83	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	08-17-95	14.55	12.35	ND	2.20	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	12-04-95	14.55	12.74	ND	1.81	08-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	03-01-96	14.55	9.34	ND	5.21	12-04-95	<50	<0.5	<0.5	<0.5	<0.5	12	--	--		
A-2	05-29-96	14.55	10.40	ND	4.15	03-13-96	<50	<0.5	0.6	<0.5	<0.5	--	--	--		
A-2	08-29-96	14.55	11.50	ND	3.05	05-29-96	<50	<0.5	<0.5	<0.5	<0.5	<9	--	--		
A-2	11-21-96	14.55	11.06	ND	3.49	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	03-26-97	14.55	11.12	ND	3.43	11-21-96	<50	<0.5	<0.5	<0.5	<0.5	<39	--	--		
A-2	05-21-97	14.55	11.58	ND	2.97	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<30	--	--		
A-2	08-08-97	14.55	11.82	ND	2.73	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	11-18-97	14.55	3.33	ND	11.22	08-08-97	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	02-20-98	14.55	7.68	ND	6.87	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters									
A-2	05-11-98	14.55	10.45	ND	4.10	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-2	07-30-98	14.55	11.23	ND	3.32	05-11-98	Not sampled									
A-2	10-08-98	14.55	11.62	ND	2.93	07-30-98	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	02-18-99	14.55	8.62	ND	5.93	10-08-98	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	05-26-99	14.55	11.16	ND	3.39	02-18-99	93	<0.5	<0.5	<0.5	<1	26	--	--		
A-2	08-23-99	14.55	11.69	ND	2.86	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-2	10-27-99	14.55	11.88	ND	2.67	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters									
A-2	01-31-00	14.55	10.17	ND	4.38	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters									
						01-31-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	0.59	NP
															0.59	
															1.0	

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**ARCO Service Station 2169
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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							Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)	
							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)
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	03-01-96	<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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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 2260 (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	03-01-96	Not sampled: well sampled annually									
A-4	05-29-96	15.25	10.32	ND	4.93	05-29-96	<50	<0.5	<0.5	<0.5	<0.5	<	--	--		
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	Not sampled: well sampled annually									
A-4	05-21-97	15.25	11.51	ND	3.74	05-21-97	<50	<0.5	<0.5	<0.5	<0.5	<	--	--		
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	Not sampled: well sampled annually									
A-4	05-11-98	15.25	10.33	ND	4.92	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	<	--	--		
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	Not sampled: well sampled annually									
A-4	08-23-99	15.25	11.62	ND	3.63	08-23-99	<50	<0.5	<0.5	<0.5	<0.5	<	--	--		
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	Not sampled: well sampled annually								0.54	
							<50	<0.5	<0.5	<0.5	<1	4	--	--	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										Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
							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)				
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	1,490	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	--	--				
A-5	10-27-99	13.51	10.72	ND	2.79	10-27-99	480	93	1.0	16	19	<3	--	--	0.73	NP		
A-5	01-31-00	13.51	9.37	ND	4.14	01-31-00	Not sampled: well was inaccessible										0.65	NP

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							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)
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	190	<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	--	--		
A-6	10-27-99	13.51	11.00	ND	2.51	10-27-99	<50	<0.5	<0.5	<0.5	<1	7	--	--	2.42	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	--	--	13.23	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										Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MIIBE 8021B* (µg/L)	MIIBE 8260 (µg/L)	TPH Diesel (µg/L)				
AR-1	03-24-95	15.61	7.25	ND	8.36													
AR-1	06-05-95	15.61	11.37	ND	4.24	03-24-95	270	14	0.6	2.5	2.1	--	--					
AR-1	08-17-95	15.61	12.40	ND	3.21	06-05-95	190	10	<0.5	0.8	0.5	--	--				130	
AR-1	12-04-95	15.61	12.90	ND	2.71	08-17-95	960	110	12	4.5	150	14	--	--				580
AR-1	03-01-96	15.61	8.19	ND	7.42	12-04-95	<50	1.5	<0.5	<0.5	0.8	--	--					<50
AR-1	05-29-96	15.61	10.41	ND	5.20	03-13-96	150	3.8	0.5	1.4	1.3	<3	--	--				--
AR-1	08-29-96	15.61	12.12	ND	3.49	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters											
AR-1	11-21-96	15.61	11.52	ND	4.09	08-29-96	<50	<0.5	<0.5	<0.5	0.8	<3	--	--				--
AR-1	03-26-97	15.61	11.33	ND	4.28	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters											
AR-1	05-21-97	15.61	12.02	ND	3.59	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--				--
AR-1	08-08-97	15.61	12.31	ND	3.30	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters											
AR-1	11-18-97	15.61	3.97	ND	11.64	08-08-97	<50	0.7	<0.5	1	<0.5	<3	--	--				--
AR-1	02-20-98	15.61	6.42	ND	9.19	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters											
AR-1	05-11-98	15.61	10.93	ND	4.68	02-23-98	<200	<2	<2	<2	160	--	--					--
AR-1	07-30-98	15.61	11.82	ND	3.79	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	4	--	--				--
AR-1	10-08-98	15.61	12.24	ND	3.37	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--				--
AR-1	02-18-99	15.61	7.75	ND	7.86	10-08-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--				--
AR-1	05-26-99	15.61	11.62	ND	3.99	02-18-99	<50	<0.5	<0.5	<0.5	<0.5	6	--	--				--
AR-1	08-23-99	15.61	9.32	ND	6.29	05-26-99	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--				--
AR-1	10-27-99	15.61	12.14	ND	3.47	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters											
AR-1	01-31-00	15.61	Not surveyed; well inaccessible			10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters											

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										Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
							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)				
AR-2	03-24-95	15.28	9.13	ND	6.15	03-24-95	<50	6.2	<0.5	<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	<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	<0.5	--	--	<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	<0.5	4	--	<50			
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	<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	<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	<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	4.00	ND	7.28	02-20-98	<50	<0.5	<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	<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	<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	<0.5	<3	--	--			
AR-2	02-18-99	15.28	5.17	ND	6.11	02-18-99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--	--			
AR-2	05-26-99	15.28	11.72	ND	3.56	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<10	--	--			
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										--	
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 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										Purged/ Not Purged (P/NP)
							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)		
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	120	--	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												
ADR-1	05-26-99	13.95	10.40	ND	3.55	02-18-99	200	4.4	<0.5	1.3	1.3	43	--	--			
ADR-1	08-23-99	13.95	10.70	ND	3.25	05-26-99	160	10	<0.5	1.7	1.8	43	--	--			
ADR-1	10-27-99	13.95	10.82	ND	3.13	08-23-99	7,400	310	16	210	970	18	--	--			
ADR-1	01-31-00	13.95	9.21	ND	4.74	10-27-99	5,000	210	6.3	180	490	5	--	--	0.37	NP	
						01-31-00	290	3.6	<0.5	1.1	<1	26	--	--	0.73	NP	
													--	--	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										Purged/ Not Purged (E/NP)	
							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)			
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													
ADR-2	02-18-99	14.64	Not surveyed: well inaccessible				10-08-98	Not sampled										
ADR-1	05-26-99	14.64	11.02	ND	3.62													
ADR-1	08-23-99	14.64	9.32	ND	4.82	05-26-99	5,900	670	5	340	104	16	--	--				
ADR-1	10-27-99	14.64	9.85	Sheen	4.79	08-23-99	9,100	570	12	410	1,000	28	--	--				
ADR-1	01-31-00	14.64	10.15	ND	4.49	10-27-99	Not sampled: sheen present										0.50 NP	
						01-31-00	7,700	280	3.4	370	390	23	--	--	0.65 NP			
															2.0 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 (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)
<p>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 <i>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).</i></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

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

03/04/04

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:	MNB0497
Global ID:	T0600100112
Lab Report Number:	MNB0497030320041841

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run Sub
MNB04970303200 A-1 41841		MNB049701	W	CS	8260TPH	SW5030B	02/16/04	02/27/04	02/28/04	4B27041	1
MNB04970303200 A-5 41841		MNB049702	W	CS	8260TPH	SW5030B	02/16/04	02/27/04	02/28/04	4B27041	1
MNB04970303200 A-6 41841		MNB049703	W	CS	8260TPH	SW5030B	02/16/04	02/27/04	02/28/04	4B27041	1
MNB04970303200 ADR-1 41841		MNB049704	W	CS	8260TPH	SW5030B	02/16/04	02/27/04	02/28/04	4B27041	1
		4B27041BSD1	WQ	BD1	8260TPH	SW5030B	//	02/27/04	02/28/04	4B27041	1
		4B27041BSD2	WQ	BD2	8260TPH	SW5030B	//	02/27/04	02/28/04	4B27041	1
		4B27041BS1	WQ	BS1	8260TPH	SW5030B	//	02/27/04	02/28/04	4B27041	1
		4B27041BS2	WQ	BS2	8260TPH	SW5030B	//	02/27/04	02/28/04	4B27041	1
		4B27041BLK1	WQ	LB1	8260TPH	SW5030B	//	02/27/04	02/28/04	4B27041	1

PCL XL error

Warning: IllegalMediaSource

EDFSAMP: Error Summary Log

03/04/04

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

EDFTEST: Error Summary Log

03/04/04

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

EDFRES: Error Summary Log

03/04/04

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

EDFQC: Error Summary Log

03/04/04

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

EDFCL: Error Summary Log

03/04/04

Error type	Cirevdate	Anmcode	Exmcode	Pariabel	Cicode
There are no errors in this data file	//				

<h2>AB2886 Electronic Delivery</h2> <p>Main Menu View/Add Facilities Upload EDD Check EDD</p>	
UPLOADING A GEO_WELL FILE	
Processing is complete. No errors were found! Your file has been successfully submitted!	
Submittal Title:	1Q04- geowell data for site 2169
Submittal Date/Time:	3/4/2004 9:31:23 AM
Confirmation Number:	4227985978
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Facility Global ID: T0600100112

Facility Name: ARCO # 02169

Submittal Title: 1Q04-monitoring Report for site 2169

Submittal Type: GW Monitoring Report

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<u>Submittal Date/Time:</u>	3/23/2004 10:44:16 AM
<u>Confirmation Number:</u>	9732391178

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ATTACHMENT E
WELL SURVEY DATA

BP/ARCO Survey Sheet

Site: 2169
 Date: 01/30/2004

Well ID	X-coord (NAD'83)	Y-coord (NAD'83)	Top of Casing (NAVD'88)	Top of Lid (NAVD'88)	Ground Surface (NAVD'88)	Comments
A-1	-122.2786792	37.8139214	16.75	17.40	17.40	
A-2	-122.2785778	37.8142487	17.18	17.83	17.83	
A-3	-122.2779667	37.8140299	18.37	19.07	19.07	
A-4	-122.2781037	37.8136756	18.01	18.78	18.78	
A-5	-122.2787463	37.8137483	16.09	16.69	16.69	
A-6	-122.2788979	37.8140497	16.10	16.77	16.77	
ADR-1	-122.2786746	37.8139790	16.56	17.29	17.29	
ADR-2	-122.2786240	37.8141199	17.24	17.54	17.54	
AR-1	-122.2784653	37.8138691	18.18	18.53	18.53	
AR-2	-122.2784602	37.8141074	17.87	18.32	18.32	
AV-1	-122.2784173	37.8139949	18.20	19.13	19.13	
AV-2	-122.2785419	37.8138993	17.37	18.23	18.23	
AV-3	-122.2783519	37.8138127	18.07	18.95	18.95	
AV-4	-122.2782392	37.8140123	18.77	19.39	19.39	
AV-5	-122.2781812	37.8141051	18.30	18.78	18.78	
AV-6	-122.2780706	37.8139902	18.75	19.46	19.46	
AV-7	-122.2785013	37.8138044	17.05	17.80	17.80	
AS-1	-122.2784316	37.8138953	18.04	18.86	18.86	
AS-2	-122.2782137	37.8140426	18.26	19.12	19.12	
AS-3	-122.2782473	37.8140903	18.05	18.94	18.94	
AS-4	-122.2784915	37.8138417	17.47	18.29	18.29	
AS-5	-122.2785531	37.8140549	17.51	18.38	18.38	

GLOBAL ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY SURVEY DATE	LATITUDE	LONGITUDE	XY METHOD	XY DATUM	XY ACC VAL	XY SURVEY_ORG	GPS EQUIP_TYPE	XY SURVEY_DESC	SITE
CP1	BM		1/30/2004	37.8142341	-122.2785240	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
CP2	BM		1/30/2004	37.8138498	-122.2785940	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_A6	MW		1/30/2004	37.8140497	-122.2788979	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_A5	MW		1/30/2004	37.8137483	-122.2787463	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_A1	MW		1/30/2004	37.8139214	-122.2786792	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_ADR1	MW		1/30/2004	37.8139790	-122.2786746	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_ADR2	MW		1/30/2004	37.8141199	-122.2786240	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_A2	MW		1/30/2004	37.8142487	-122.2785778	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AR2	MW		1/30/2004	37.8141074	-122.2784602	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AS5	MW		1/30/2004	37.8140549	-122.2785531	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV2	MW		1/30/2004	37.8138993	-122.2785419	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV7	MW		1/30/2004	37.8138044	-122.2785013	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AR1	MW		1/30/2004	37.8138691	-122.2784653	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV4	MW		1/30/2004	37.8140123	-122.2782392	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AS3	MW		1/30/2004	37.8140903	-122.2782473	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV1	MW		1/30/2004	37.8139949	-122.2784173	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AS1	MW		1/30/2004	37.8138953	-122.2784316	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV5	MW		1/30/2004	37.8141051	-122.2781812	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AS2	MW		1/30/2004	37.8140426	-122.2782137	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_A3	MW		1/30/2004	37.8140299	-122.2779667	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV6	MW		1/30/2004	37.8139902	-122.2780706	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AS4	MW		1/30/2004	37.8138417	-122.2784915	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_AV3	MW		1/30/2004	37.8138127	-122.2783519	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169
MW_A4	MW		1/30/2004	37.8136756	-122.2781037	CGPS	NAD83	0.02	URS	T48	0.0000000	BP2169

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION ft	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	SITE
	CP1	1/30/2004	17.894	CGPS	88	0.02	URS	0.000	0	BP2169
	CP2	1/30/2004	18.061	CGPS	88	0.02	URS	0.000	0	BP2169
	MW,A6	1/30/2004	16.096	CGPS	88	0.02	URS	-0.670	2"PVC	BP2169
	MW,A5	1/30/2004	16.090	CGPS	88	0.02	URS	-0.600	2"PVC	BP2169
	MW,A1	1/30/2004	16.748	CGPS	88	0.02	URS	-0.650	3"PVC	BP2169
	MW,ADR1	1/30/2004	16.556	CGPS	88	0.02	URS	-0.730	4"PVC	BP2169
	MW,ADR2	1/30/2004	17.242	CGPS	88	0.02	URS	-0.300	4"PVC	BP2169
	MW,A2	1/30/2004	17.176	CGPS	88	0.02	URS	-0.650	3"PVC	BP2169
	MW,AR2	1/30/2004	17.866	CGPS	88	0.02	URS	-0.450	4"PVC	BP2169
	MW,AS5	1/30/2004	17.507	CGPS	88	0.02	URS	-0.870	2"PVC	BP2169
	MW,AV2	1/30/2004	17.371	CGPS	88	0.02	URS	-0.860	2"PVC	BP2169
	MW,AV7	1/30/2004	17.047	CGPS	88	0.02	URS	-0.750	4"PVC	BP2169
	MW,AR1	1/30/2004	18.183	CGPS	88	0.02	URS	-0.350	6"PVC	BP2169
	MW,AV4	1/30/2004	18.770	CGPS	88	0.02	URS	-0.620	4"PVC	BP2169
	MW,AS3	1/30/2004	18.045	CGPS	88	0.02	URS	-0.890	2"PVC	BP2169
	MW,AV1	1/30/2004	18.199	CGPS	88	0.02	URS	-0.930	2"PVC	BP2169
	MW,AS1	1/30/2004	18.044	CGPS	88	0.02	URS	-0.820	2"PVC	BP2169
	MW,AV5	1/30/2004	18.298	CGPS	88	0.02	URS	-0.480	6"PVC	BP2169
	MW,AS2	1/30/2004	18.263	CGPS	88	0.02	URS	-0.860	2"PVC	BP2169
	MW,A3	1/30/2004	18.372	CGPS	88	0.02	URS	-0.700	4"PVC	BP2169
	MW,AV6	1/30/2004	18.754	CGPS	88	0.02	URS	-0.710	4"PVC	BP2169
	MW,AS4	1/30/2004	17.467	CGPS	88	0.02	URS	-0.820	2"PVC	BP2169
	MW,AV3	1/30/2004	18.068	CGPS	88	0.02	URS	-0.880	2"PVC	BP2169
	MW,A4	1/30/2004	18.006	CGPS	88	0.02	URS	-0.770	4"PVC	BP2169

ATTACHMENT F
WELL REPAIR DATA

REPAIR DATA SHEET

Client ARCO #2169 Date Jan 20, 2009

Site Address 887 W. Grand Ave Oakland Ca.

Job Number 09020-1421 Technician Mike Kovich

Repair Location A-3

Deficiencies Corrected ADDED Modified
Cap & Lock

Materials Used 1-Lock, 1-Cap (modified)

Repair Location A-4

Deficiencies Corrected ADDED Modified Cap
& Lock

Materials Used 1-Lock, 1-Cap (modified)

Repair Location ~~_____~~

Deficiencies Corrected ~~_____~~
~~_____~~
~~_____~~

Materials Used ~~_____~~

Repair Location ADR-1

Deficiencies Corrected 4 Retaps &
ADDED 4 NEW Bolts

Materials Used 4 Bolts

Repair Location ADR-2

Deficiencies Corrected 4 Retaps
& ADDED 4 NEW Bolts

Materials Used 4 Bolts

Repair Location A-2

Deficiencies Corrected REPLACED Cap & Lock

Materials Used Lock, 1-modified Cap