



April 13, 2004

10/2/04

ALAMEDA COUNTY
APR 21 2004
ELECTRONIC MAIL

Mr. Amir Gholami
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 #4494
566 Hegenberger Road
Oakland, California
URS Project #38486721**

Dear Mr. Gholami:

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 #4494, located at 566 Hegenberger Road, Oakland, California.

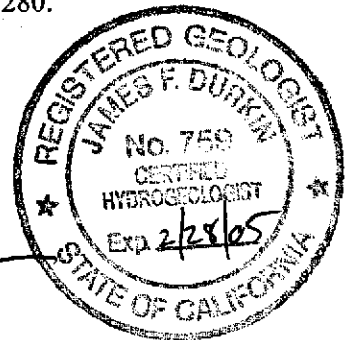
If you have any questions regarding this submission, please call me at (510) 874-3280.

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

APR 21 2004
RECEIVED

April 13, 2004

RE: First Quarter 2004 Groundwater Monitoring Report
ARCO Service Station #4494
566 Hegenberger Road
Oakland, California
URS Project #38486721

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

R E P O R T

**FIRST QUARTER 2004
GROUNDWATER MONITORING**

**ARCO SERVICE STATION #4494
566 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

Prepared for
Atlantic Richfield Company

April 13, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486721

Date: April 13, 2004

Quarter: 1Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 4494 Address: 566 Hegenberger Road, Oakland, California
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 384863721
Primary Agency/Regulatory ID No. Alameda County Health Services Agency (ACHCSA)/STID #3854

WORK PERFORMED THIS QUARTER (First – 2004):

1. Performed first quarter 2004 monitoring event on March 18, 2004.

WORK PROPOSED FOR NEXT QUARTER (Second– 2004):

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

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Quarterly: MW-1, MW-7.
Semi-annually (1st and 3rd Quarter): MW-3 to MW-6, and RW-1
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Bulk Soil Removed to Date: 1,550 cubic yards
Current Remediation Techniques: None
Approximate Depth to Groundwater: 5.40 (MW-6) to 8.76 (MW-3) feet
Groundwater Gradient (direction): North-Northwest
Groundwater Gradient (magnitude): 0.011 feet per foot

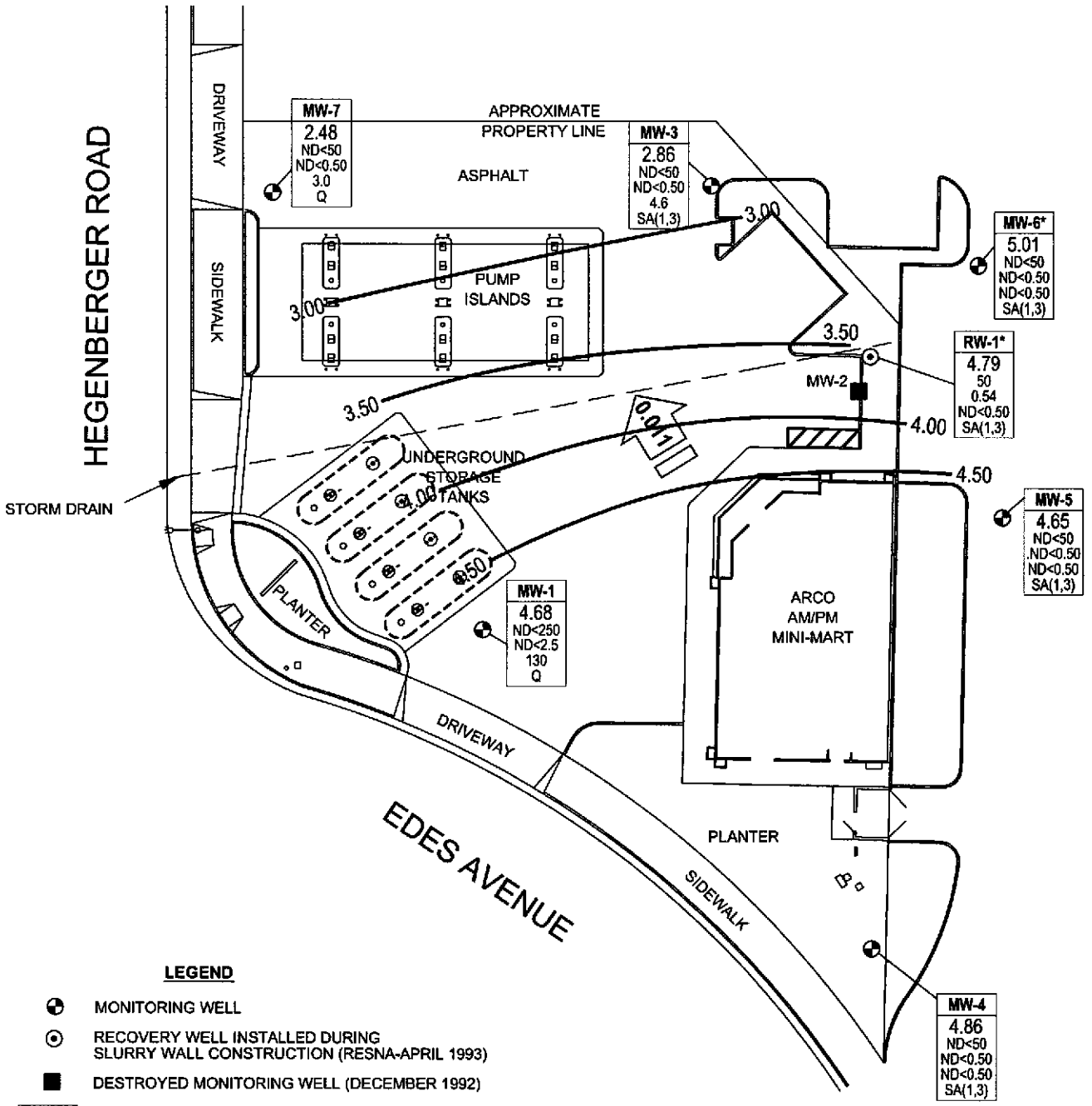
DISCUSSION:

Gasoline Range Organics (GRO) were detected at or above the laboratory reporting limit in one of the seven wells sampled this quarter, at a concentration of 50 µg/L (RW-1). Benzene was detected above the laboratory reporting limit in one of the wells sampled this quarter, at a concentration of 0.54 µg/L (RW-1). Methyl tert-butyl ether (MTBE) was detected above the laboratory reporting limit in the three wells sampled, at concentrations ranging from 3.0 µg/L (MW-7) to 130 µg/L (MW-1).

ATTACHMENTS:

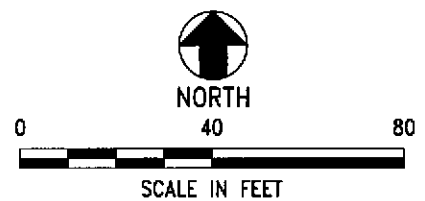
- **Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – March 18, 2004**
- **Table 1 – Groundwater Elevation and Analytical Data**
- **Table 2 – Groundwater Flow Direction and Gradient**
- **Table 3 – Fuel Oxygenate Analytical Data**
- **Attachment A – Field Procedures and Field Data 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**

Apr 09, 2004 - 4:21pm
 X:\env_waste\BP_GEM\Sites\Scott Robinson\Pool_Supplie\4494\Monitoring\Qtr_1_2004\Drawings\new-GHEC-AS_3_13.dwg



LEGEND

- ⊕ MONITORING WELL
 - ⊙ RECOVERY WELL INSTALLED DURING SLURRY WALL CONSTRUCTION (RESNA-APRIL 1993)
 - DESTROYED MONITORING WELL (DECEMBER 1992)
- | | |
|---------|--|
| Well | WELL DESIGNATION |
| ELEV | GROUNDWATER ELEVATION CONTOUR (FT/MSL) |
| GRO | CONCENTRATION OF GRO, BENZENE, AND MTBE IN MICROGRAMS PER LITER (µg/L) |
| Benzene | |
| MTBE | |
| A/Q | SAMPLING FREQUENCY |
- SA(1,3) SAMPLED SEMI-ANNUALLY, 1ST AND 3RD QUARTERS
 - ND NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
 - NS NOT SAMPLED
 - Q SAMPLED QUARTERLY
 - ← 0.011 GROUNDWATER FLOW AND GRADIENT (FT/FT)
 - 3.50 GROUNDWATER ELEVATION CONTOUR (FT/MSL)
 - * NOT USED IN CONTOURING



NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL 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 (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.



Project No. 38486721
 ARCO Service Station 4494
 566 Hegenberger Road
 Oakland, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP
 First Quarter 2004 (March 13, 2004)**

FIGURE
 1

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft., bgs)	Total Well Depth (ft., bgs)	Depth to Groundwater (ft., TOC)	Groundwater Elevation (ft)	GRO/TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L) ^(g)	pH ^(g)
MW-1	06/20/00	106.10	13.0	22.7	7.02	99.08	ND<1,000	ND<10	ND<10	ND<10	ND<20	14,000/15,000 ^a	NA	NA
	09/28/00				7.07	99.03	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	13000/18,800 ^a	NA	NA
	12/17/00				6.95	99.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10,600	NA	NA
	03/28/01				6.88	99.22	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	16,900	NA	NA
	06/21/01				7.18	98.92	ND<1,000	ND<10	ND<10	ND<10	ND<10	3,400	NA	NA
	09/23/01				7.11	98.99	ND<1,000	ND<10	ND<10	ND<10	ND<10	2200/1800 ^a	NA	NA
	12/31/01				6.91	99.19	ND<5,000	ND<50	ND<50	ND<50	ND<50	14,000	NA	NA
	03/14/02				6.85	99.25	ND<5,000	ND<50	ND<50	ND<50	ND<50	6,200	NA	NA
	04/17/02				5.89	100.21	ND<5,000	ND<50	ND<50	ND<50	ND<50	4,500	NA	NA
	08/08/02				7.19	98.91	230 ^b	ND<2.0	ND<2.0	ND<2.0	ND<2.0	660/440 ^a	4.5	7.8
	12/12/02				7.28	98.82	630 ^d	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1300/830 ^a	1.9	7.6
	03/20/03 ^e				6.91	99.19	1,100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	780	2.2	8.5
	06/23/03				7.61	98.49	530	ND<5.0	ND<5.0	ND<5.0	ND<5.0	260	1.2	7.6
	09/22/03				11.36	7.78	3.58	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	3.5	7.7
	12/03/03	7.90	3.46	410	2.6	9.8	ND<2.5	11	260	2.1	6.9			
03/18/04	6.68	4.68	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	130	2.4	7.0				
MW-3	06/20/00	106.29	7.0	17.7	9.18	97.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	27/27 ^a	NA	NA
	09/28/00				9.33	96.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.3/ND<2.0 ^a	NA	NA
	12/17/00				9.31	96.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				9.23	97.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.42	NA	NA
	06/21/01				9.58	96.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01				9.76	96.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/31/01				8.78	97.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/14/02				9.25	97.04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4	NA	NA
	04/17/02				8.44	97.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	08/08/02				9.63	96.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	2.6	7.9
	12/12/02				9.51	96.78	ND<50 ^d	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	3.0	6.8
	03/20/03 ^e				9.40	96.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.1	1.2	7.0
	06/23/03				9.36	96.93	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.2	0.9	8.2
	09/22/03				11.62	9.48	2.14	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.9	1.4	7.9
	12/03/03	9.44	2.18	NS	NS	NS	NS	NS	NS	NS	NS			
03/18/04	8.76	2.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.6	0.8	7.3				

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Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft., bgs)	Total Well Depth (ft., bgs)	Depth to Groundwater (ft., TOC)	Groundwater Elevation (ft)	GRO/TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L) ^(g)	pH ^(h)	
MW-4	06/20/00	107.40	7.0	16.3	8.49	98.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA	
	09/28/00				8.70	98.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA
	12/17/00				8.53	98.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				8.59	98.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				8.79	98.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01				8.67	98.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/31/01				8.03	99.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/14/02				8.48	98.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02				7.79	99.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.6	NA	NA
	08/08/02				8.90	98.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	4.5	8.0
	12/12/02				9.07	98.33	ND<50 ^d	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	5.6	6.2
	03/20/03 ^e				8.85	98.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.50	ND<0.50	4.8	7.8
	06/23/03				9.26	98.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.3	7.5
	09/22/03				13.18	9.22	3.96	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.4	8.0
	12/03/03	9.48	3.70	NS	NS	NS	NS	NS	NS	NS	NS	NS			
03/18/04	8.32	4.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	8.4				
MW-5	06/20/00	105.19	8.0	16.6	7.65	97.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA	
	09/28/00				6.82	98.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA
	12/17/00				6.50	98.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				6.34	98.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				7.88	97.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	09/23/01				6.98	98.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	12/31/01				5.01	100.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/14/02				5.93	99.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	04/17/02				5.37	99.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	NA	NA
	08/08/02				6.85	98.34	ND<50 ^b	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.7	7.3
	12/12/02				6.53	98.66	ND<50 ^d	2.2	4.7	1.3	6.8	ND<2.5	1.3	7.0	
	03/20/03 ^e				6.40	98.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	7.1
	06/23/03				6.72	98.47	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.3	7.2
	09/22/03				10.63	6.76	3.87	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	7.2
	12/03/03	6.56	4.07	NS	NS	NS	NS	NS	NS	NS	NS	NS			
03/18/04	5.98	4.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.7	7.3				

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft., bgs)	Total Well Depth (ft., bgs)	Depth to Groundwater (ft, TOC)	Groundwater Elevation (ft)	GRO/TPH as			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L) ^(g)	pH ^(g)	
							Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-6	06/20/00	105.07	8.0	17.8	6.24	98.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<10	NA	NA	
	09/28/00				6.45	98.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA	
	12/17/00				6.26	98.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/28/01				6.10	98.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	06/21/01				7.68	97.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	09/23/01				6.72	98.35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/23/01				4.68	100.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	03/14/02				5.55	99.52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	04/17/02				4.96	100.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7	NA	NA	
	08/08/02				6.46	98.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	0.7	7.3	
	12/12/02				6.18	98.89	65 ^d	3.3	8.4	2.7	14	ND<2.5	1.1	6.9	
	03/20/03 ^e				6.18	98.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.2	7.0
	06/23/03				6.15	98.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.0	7.1
	09/22/03	10.41	6.43	3.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.5	7.0			
	12/03/03	6.12	4.29	NS	NS	NS	NS	NS	NS	NS	NS	NS			
03/18/04	5.40	5.01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.9	7.2				
MW-7	06/20/00	105.52	9.0	13.7	8.65	96.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	13/13 ^a	NA	NA	
	09/28/00				8.75	96.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	136/261 ^a	NA	NA	
	12/17/00				8.62	96.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27.1	NA	NA	
	03/28/01				8.66	96.86	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	51.5	NA	NA	
	06/21/01				8.84	96.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	53	NA	NA	
	09/23/01				8.75	96.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35/21 ^a	NA	NA	
	12/23/01				7.79	97.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	440	NA	NA	
	03/14/02				8.30	97.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	NA	NA	
	04/17/02				7.43	98.09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	67	NA	NA	
	08/08/02				8.61	96.91	55 ^b	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130/100 ^b	1.1	7.1	
	12/12/02				**	8.55	NC	75 ^d	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160/130 ^b	1.2	7.0
	03/20/03 ^e				8.38	NC	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	32	2.2	7.2
	06/23/03				8.37	NC	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	14	0.8	7.1
	09/22/03	10.51	8.95	1.56	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.3	2.2	7.2			
	12/03/03	8.86	1.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.2	0.1	7.2			
03/18/04	8.03	2.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	1.0	7.2				

**Table 1
Groundwater Elevation and Analytical Data**

ARCO Service Station #4494
566 Hegenberger Road
Oakland, California

Well Number	Date Sampled	Top of Riser Elevation ^f (ft)	Depth to Top of Screen (ft., bgs)	Total Well Depth (ft., bgs)	Depth to Groundwater (ft, TOC)	Groundwater Elevation (ft)	GRO/TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L) ^(g)	pH ^(g)	
RW-1	06/20/00	NE	NA	11.0	8.21	NC	ND<50	ND<0.5	1.1	ND<0.5	ND<1.0	ND<10	NA	NA	
	09/28/00				8.28	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<2.5	NA	NA
	12/17/00				8.29	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	03/28/01				8.16	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA
	06/21/01				9.37	NC	160	5.1	ND<0.5	1.1	3.2	ND<2.5	NA	NA	
	09/23/01				8.75	NC	57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	NA	NA	
	12/31/01				6.80	NC	520	3.1	ND<0.5	6.4	4.7	ND<2.5	NA	NA	
	03/14/02				7.86	NC	240	3.7	ND<0.5	0.7	2.8	ND<2.5	NA	NA	
	04/17/02				7.13	NC	ND<50	ND<0.5	1.6	ND<0.5	0.72	ND<2.5	NA	NA	
	08/08/02				8.48	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7/ND<0.5 ^{a,c}	1.1	7.0	
	12/12/02				8.63	NC	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2.5	1.9	6.9	
	03/20/03 ^e				8.08	NC	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.9	7.3
	06/23/03				8.28	NC	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	7.3
	09/22/03				11.97	8.42	3.55	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	7.1
	12/03/03	8.05	3.92	NS	NS	NS	NS	NS	NS	NS	NS	NS			
03/18/04	7.18	4.79	50	0.54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.9	7.1					

- ft., bgs = feet below ground surface
- GRO = Gasoline Range Organics
- MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted. (prior to 3/20/03)
- mg/L = Milligrams per liter
- NA = Not available, not applicable, or not analyzed
- NC = Not calculated
- ND< = Not detected at or above specified laboratory reporting limit.
- NE = Not surveyed/No elevation
- NS = Not sampled
- TOC = Top of casing
- TPH = Total Petroleum Hydrocarbons analyzed by EPA Method 8015M. (prior to 3/20/03)
- µg/L = Micrograms per liter
- a = Analyzed by EPA Method 8260
- b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- c = This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
- d = Analyzed by EPA Method 8215B/8021B for Gasoline Range Organics
- e = TPH-g, BTEX, and MTBE analyzed by EPA method 8260B beginning on 2003 sampling event (03/20/03)
- f = Top of casing elevations were re-surveyed on July 18, 2003 by URS Corporation of Pleasant Hill, CA
- g = pH and DO are field measurements.
- ** = Top of casing was found shattered on December 12, 2002. Top of Casing (TOC) unknown.

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 #4494
566 Hegenberger Road
Oakland, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	North-Northeast	0.015
09/28/00	North	0.018
12/17/00	North-Northwest	0.013
03/28/01	Northwest	0.011
06/21/01	North	0.017
09/23/01	North	0.020
12/31/01	North-Northwest	0.023
03/14/02	North-Northwest	0.017
04/14/02	Northwest	0.007
08/08/02	North-Northwest	0.022
12/12/02	North-Northwest	0.017
03/20/03	North-Northwest	0.016
06/23/03	Northwest	0.014
09/22/03	Northwest	0.017
12/03/03	Northwest	0.013
03/18/04	North-Northwest	0.011

Note:

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 # 4494
566 Hegenberger Road
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)
MW-1	03/20/03	ND<1,000	640	780	ND<5.0	ND<5.0	ND<5.0	NA	NA
	06/23/03	ND<1,000	ND<200	260	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	09/22/03	ND<100	250	17	ND<0.50	ND<0.50	ND<0.50	NA	NA
	12/03/03	ND<500	ND<100	260	ND<2.5	ND<2.5	ND<2.5	NA	NA
	03/18/04	ND<500	ND<100	130	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-3	03/20/03	ND<100	ND<20	601	ND<0.50	ND<0.50	1.1	NA	NA
	06/23/03	ND<100	ND<20	5.2	ND<0.50	ND<0.50	0.75	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	3.9	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/18/04	ND<100	ND<20	4.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-4	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/18/04	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/18/04	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-6	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/18/04	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	03/20/03	ND<100	ND<20	32	ND<0.50	ND<0.50	0.62	NA	NA
	06/23/03	ND<100	170	14	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	170	5.3	ND<0.50	ND<0.50	ND<0.50	NA	NA
	12/03/03	ND<100	85	4.2	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/18/04	ND<100^(a)	ND<20	3.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
RW-1	03/20/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	06/23/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	09/22/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA
	03/18/04	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 3
Fuel Oxygenate Analytical Data

ARCO Service Station # 4494
566 Hegenberger Road
Oakland, California

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 laboratory reporting limit
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
µg/L = micrograms per liter

Notes:

- a = The continuing calibration verification was outside of client contractual acceptance limits. However, it was within method acceptance limits and should be useful for its intended purpose.

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 # 040318-DW-1 Date 3-18-04 Client Arco 4494

Site 566 Hegenberger Rd Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					6.68	23.00	↓	
MW-3	4					8.76	17.90		NP 7'
MW-4	4					8.32	16.61		NP 7'
MW-5	2					5.98	16.97		
MW-6	2					5.40	18.09		
MW-7	4					8.03	13.47		
RW-1	2					7.18	11.30	✓	

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030418-DW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>23.00</u>	Depth to Water: <u>6.68</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YS)</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 Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____

Sampling Method: Bailer Disposable Bailer Extraction Port Other: _____

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

<u>10.6</u>	x	<u>3</u>	=	<u>31.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>11:02</u>	<u>67.5</u>	<u>7.5</u>	<u>6195</u>	<u>11</u>	<u>clear</u>
	<u>well dewatered @ 16 gal</u>			<u>DTW = 20.85</u>	
<u>11:15</u>	<u>68.9</u>	<u>7.0</u>	<u>6953</u>	<u>-</u>	<u>clear</u>

Did well dewater? Yes No Gallons actually evacuated: 16

Sampling Time: 11:15 Sampling Date: 3-18-04

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: Oxy's, EOB, 1,2-DCA, + Ethanol by P260

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>030418-DW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>17.90</u>	Depth to Water: <u>8.76</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YS</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> <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

Top of Screen: 7' 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	<u>no purge</u>	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
9:10	69.5	7.3	1836	—	clear

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 9:10 Sampling Date: 3-18-04

Sample I.D.: MW-3 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's, EOB, 1,2-DCA, + Ethanol by P260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 0.8 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030418-DW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>16.61</u>	Depth to Water: <u>8.32</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YS</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> <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

Top of Screen: 71 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	_____ <u>no purge</u>	_____ Gals.	_____
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
9:00	65.0	8.4	1450	-	clear

Did well dewater? Yes No Gallons actually evacuated: -

Sampling Time: 9:00 Sampling Date: 3-18-04

Sample I.D.: MW-4 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's, EOB, 1,2-DCA, + Ethane / by P260

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 #: <u>030418-DW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>16.97</u>	Depth to Water: <u>5.98</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YS)</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 checked="" type="checkbox"/> Disposable Bailer <input 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: _____
---	---

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>1.8</u>	x	<u>3</u>	=	<u>5.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
9:53	65.6	7.3	8686	1.8	yellowish
9:55	66.8	7.3	10860	3.6	"
9:57	67.5	7.3	9901	5.4	"

Did well dewater? Yes <input type="checkbox"/> <u>No</u>	Gallons actually evacuated: <u>5.4</u>
Sampling Time: <u>10:00</u>	Sampling Date: <u>3-18-04</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>(Sequoia)</u> Other _____
Analyzed for: <u>(TPH-G)</u> <u>(BTEX)</u> MTBE TPH-D Other: <u>Oxy's, EDB, 1,2-DCA, + Ethanol by P260</u>	

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	0.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030418-DW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>18.09</u>	Depth to Water: <u>5.40</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YS</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 checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> 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>2</u>	<u>X</u>	<u>3</u>	<u>=</u>	<u>6</u>	Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
10:11	62.6	7.3	5560	2	yellowish
10:13	69.1	7.3	5440	4	"
10:16	69.4	7.2	5410	6	"

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 10:19 Sampling Date: 3-18-04

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

Analyzed for: TPH-C BTEX MTBE TPH-D Other: Oxy's, EOB, 1,2-DCA, + Ethanol by P260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 0.9 mg/L

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030418-PW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>13.47</u>	Depth to Water: <u>8.03</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YS</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
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible Extraction Pump
 Other: _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Other: _____

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

<u>3.5</u>	x	<u>3</u>	=	<u>10.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
10:44	69.0	7.2	5425	3.5	yellow
10:45	68.9	7.2	6951	7.0	"
10:47	68.5	7.2	7771	10.5	"

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Time: 10:50 Sampling Date: 3-18-04

Sample I.D.: MW-7 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's, EDB, 1,2-DCA, + Ethanol by P260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
			<u>1.0</u>	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030418-DW-1</u>	Station # <u>4494</u>
Sampler: <u>Dave W.</u>	Date: <u>3-18-04</u>
Well I.D.: <u>RW-1</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>11.30</u>	Depth to Water: <u>7.18</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YS</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 checked="" type="checkbox"/> Disposable Bailer <input 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: _____
---	---

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>0.7</u>	x	<u>3</u>	=	<u>2.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>10:26</u>	<u>64.1</u>	<u>6.9</u>	<u>7684</u>	<u>0.7</u>	<u>clear</u>
<u>10:27</u>	<u>62.1</u>	<u>7.0</u>	<u>7488</u>	<u>1.4</u>	<u>"</u>
<u>10:28</u>	<u>62.1</u>	<u>7.1</u>	<u>8976</u>	<u>2.1</u>	<u>"</u>

Did well dewater? Yes No Gallons actually evacuated: 2.1

Sampling Time: 10:30 Sampling Date: 3-18-04

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's, EOB, 1,2-DCA, + Ethane / by P260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: 0.9 mg/L

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

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

The contractor performing this work is BLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

4494

Station #

566 Hegenberger R Oakland

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

40

added equip.
rinse water

5

any other
adjustments

TOTAL GALS.
RECOVERED

45

loaded onto
BTS vehicle #

47

BTS event #

time

date

040318-DW-1

11:30

3/18/04

signature

David C. Hobbs

REC'D AT

time

date

unloaded by
signature

/ /

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

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals noted on 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.



31 March, 2004

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

RE: ARCO #4494, Oakland, CA
Work Order: MNC0575

Enclosed are the results of analyses for samples received by the laboratory on 03/19/04 12:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott RobinsonMNC0575
Reported:
03/31/04 16:28**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNC0575-01	Water	03/18/04 11:15	03/19/04 12:39
MW-3	MNC0575-02	Water	03/18/04 09:10	03/19/04 12:39
MW-4	MNC0575-03	Water	03/18/04 09:00	03/19/04 12:39
MW-5	MNC0575-04	Water	03/18/04 10:00	03/19/04 12:39
MW-6	MNC0575-05	Water	03/18/04 10:19	03/19/04 12:39
MW-7	MNC0575-06	Water	03/18/04 10:50	03/19/04 12:39
RW-1	MNC0575-07	Water	03/18/04 10:30	03/19/04 12:39

These samples were received with intact custody seals.

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

 Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

 MNC0575
 Reported:
 03/31/04 16:28

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-1 (MNC0575-01) Water Sampled: 03/18/04 11:15 Received: 03/19/04 12:39										
Ethanol	ND	500		ug/l	5	4C29004	03/29/04	03/29/04	EPA 8260B	
tert-Butyl alcohol	ND	100		"	"	"	"	"	"	
Methyl tert-butyl ether	130	2.5		"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5		"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5		"	"	"	"	"	"	
Benzene	ND	2.5		"	"	"	"	"	"	
Toluene	ND	2.5		"	"	"	"	"	"	
Ethylbenzene	ND	2.5		"	"	"	"	"	"	
Xylenes (total)	ND	2.5		"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	250		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %		78-129		"	"	"	"	
MW-3 (MNC0575-02) Water Sampled: 03/18/04 09:10 Received: 03/19/04 12:39										
Ethanol	ND	100		ug/l	1	4C29004	03/29/04	03/29/04	EPA 8260B	
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	
Methyl tert-butyl ether	4.6	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>		102 %		78-129		"	"	"	"	

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

 Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

 MNC0575
 Reported:
 03/31/04 16:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-4 (MNC0575-03) Water Sampled: 03/18/04 09:00 Received: 03/19/04 12:39

Ethanol	ND	100	ug/l	1	4C29004	03/29/04	03/29/04	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	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 99.8 % 78-129 " " " "

MW-5 (MNC0575-04) Water Sampled: 03/18/04 10:00 Received: 03/19/04 12:39

Ethanol	ND	100	ug/l	1	4C29004	03/29/04	03/29/04	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	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 103 % 78-129 " " " "

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

 Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

 MNC0575
 Reported:
 03/31/04 16:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (MNC0575-05) Water Sampled: 03/18/04 10:19 Received: 03/19/04 12:39									
Ethanol	ND	100	ug/l	1	4C29004	03/29/04	03/29/04	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	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>		103 %		78-129	"	"	"	"	
MW-7 (MNC0575-06) Water Sampled: 03/18/04 10:50 Received: 03/19/04 12:39									
Ethanol	ND	100	ug/l	1	4C29004	03/29/04	03/30/04	EPA 8260B	CC04
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	3.0	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	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>		107 %		78-129	"	"	"	"	

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

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNC0575
Reported:
03/31/04 16:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MNC0575-07) Water Sampled: 03/18/04 10:30 Received: 03/19/04 12:39									
Ethanol	ND	100	ug/l	1	4C29004	03/29/04	03/29/04	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	0.54	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	50	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		78-129	"	"	"	"	

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

 Project: ARCO #4494, Oakland, CA
 Project Number: INTRIM-50443
 Project Manager: Scott Robinson

 MNC0575
 Reported:
 03/31/04 16:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4C29004 - EPA 5030B Modified
Blank (4C29004-BLK1)

Prepared & Analyzed: 03/29/04

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 (C6-C10)	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4 4.60 " 5.00 92.0 78-129

Laboratory Control Sample (4C29004-BS1)

Prepared & Analyzed: 03/29/04

Ethanol	212	100	ug/l	200		106	31-143			
tert-Butyl alcohol	41.2	20	"	50.0		82.4	56-131			
Methyl tert-butyl ether	9.12	0.50	"	10.0		91.2	63-137			
Di-isopropyl ether	9.33	0.50	"	10.0		93.3	76-130			
Ethyl tert-butyl ether	9.25	0.50	"	10.0		92.5	81-121			
tert-Amyl methyl ether	8.87	0.50	"	10.0		88.7	82-140			
1,2-Dichloroethane	9.56	0.50	"	10.0		95.6	77-136			
1,2-Dibromoethane (EDB)	9.74	0.50	"	10.0		97.4	77-132			
Benzene	10.1	0.50	"	10.0		101	69-124			
Toluene	10.1	0.50	"	10.0		101	78-129			
Ethylbenzene	9.87	0.50	"	10.0		98.7	84-132			
Xylenes (total)	29.4	0.50	"	30.0		98.0	83-137			

Surrogate: 1,2-Dichloroethane-d4 5.08 " 5.00 102 78-129



URS Corporation (Arco)
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNC0575
Reported:
03/31/04 16:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4C29004 - EPA 5030B Modified										
Laboratory Control Sample (4C29004-BS2)					Prepared & Analyzed: 03/29/04					
Gasoline Range Organics (C6-C10)	392	50	ug/l	440		89.1	70-124			
Surrogate: 1,2-Dichloroethane-d4	4.91		"	5.00		98.2	78-129			
Laboratory Control Sample Dup (4C29004-BSD1)					Prepared & Analyzed: 03/29/04					
Ethanol	295	100	ug/l	200		148	31-143	32.7	20	CC04, QC01, QC20
tert-Butyl alcohol	46.6	20	"	50.0		93.2	56-131	12.3	20	
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	63-137	15.0	20	
Di-isopropyl ether	11.1	0.50	"	10.0		111	76-130	17.3	20	
Ethyl tert-butyl ether	11.2	0.50	"	10.0		112	81-121	19.1	20	
tert-Amyl methyl ether	10.8	0.50	"	10.0		108	82-140	19.6	20	
1,2-Dichloroethane	11.4	0.50	"	10.0		114	77-136	17.6	20	
1,2-Dibromoethane (EDB)	11.6	0.50	"	10.0		116	77-132	17.4	20	
Benzene	11.9	0.50	"	10.0		119	69-124	16.4	20	
Toluene	11.8	0.50	"	10.0		118	78-129	15.5	20	
Ethylbenzene	11.3	0.50	"	10.0		113	84-132	13.5	20	
Xylenes (total)	34.0	0.50	"	30.0		113	83-137	14.5	20	
Surrogate: 1,2-Dichloroethane-d4	4.98		"	5.00		99.6	78-129			
Laboratory Control Sample Dup (4C29004-BSD2)					Prepared & Analyzed: 03/29/04					
Gasoline Range Organics (C6-C10)	410	50	ug/l	440		93.2	70-124	4.49	20	
Surrogate: 1,2-Dichloroethane-d4	5.06		"	5.00		101	78-129			

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

Project: ARCO #4494, Oakland, CA
Project Number: INTRIM-50443
Project Manager: Scott Robinson

MNC0575
Reported:
03/31/04 16:28

Notes and Definitions

- CC04 The continuing calibration verification was outside of client contractual acceptance limits by 18 % high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.
- QC01 The percent recovery was above the control limits. The sample results may still be useful for their intended purpose.
- QC20 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

Project Name 444 GWM 040318-04-1
 BP BU/GEM CO Portfolio Retail

MN00575

BP Laboratory Contract Number: Atlantic Richfield Company

Date: 3-18-04

Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time: <u>8:45</u>	Temp: <u>65°</u>
Off-site Time: <u>11:45</u>	Temp: <u>75°</u>
Sky Conditions: <u>Sunny</u>	
Meteorological Events:	
Wind Speed: <u>2-5 mph</u> Direction: <u>W</u>	

Send To:	BP/GEM Facility No.: <u>ARCO 4494</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>586 HEGENBERGER, OAKLAND, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 4494</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.cosper@URSCorp.com</u>
	California Global ID #: <u>T0600100104</u>	Consultant/Contractor Project No.: <u>15-00004494.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3208</u>
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	Address: <u>P.O. Box 0549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>1 Send EDP Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: <u>Consultant/Contractor of BP/GEM</u> <i>Circle one</i>
BP/GEM Account No.:	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50443</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	Sediment/S	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/BTEX (8015/8021/8260)	TPH-D (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIP, TBA (8260)	1,2-DCA & EDB (8260)	
1	MW-1	11:15		X			01	3					X	X	X	X	X		
2	MW-3	9:10					02	3					X	X	X	X	X		
3	MW-4	9:00					03	3					X	X	X	X	X		
4	MW-5	10:00					04	3					X	X	X	X	X		
5	MW-6	10:17					05	3					X	X	X	X	X		
6	MW-7	10:50					06	3					X	X	X	X	X		
7	RW-1	10:30					07	3					X	X	X	X	X		
8	STB-444-03R04	-					08	2					X						DN H2O
9																			
10																			

Sampler's Name: <u>Dave Walter</u>	Relinquished By / Affiliation: <u>Dave Walter</u>	Date: <u>3/19/04</u>	Time: <u>11:16</u>	Accepted By / Affiliation: <u>Andrew Jensen</u>	Date: <u>3/19/04</u>	Time: <u>11:16</u>
Sampler's Company: <u>BTS</u>						
Shipment Date:						
Shipment Method:						
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 2.6°C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT): AS
 WORKORDER: MNC 0575

DATE REC'D AT LAB: 3-19-04
 TIME REC'D AT LAB: 1239
 DATE LOGGED IN: 3-19-04

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) <i>on bag</i>			MW-1	3-VOAS	HA	L	3-18-04	lot HA 332400
2. Chain-of-Custody			MW-3	↓	↓	↓	↓	
3. Traffic Reports or Packing List			MW-4	↓	↓	↓	↓	
4. Airbill:			MW-5	↓	↓	↓	↓	
5. Airbill #:			MW-6	↓	↓	↓	↓	
6. Sample Labels:			MW-7	↓	↓	↓	↓	
7. Sample IDs: <i>on Chain-of-Custody</i>			RW-1	↓	↓	↓	↓	
8. Sample Condition: <i>-Leaking*</i>			JB-4494-03R01	2-VOAS	↓	↓	↓	
9. Does information on chain-of-custody, traffic reports and sample labels agree?								
10. Sample received within hold time:								
11. Adequate sample volume received?								
12. Proper Preservatives used:								
13. Temp Rec. at Lab: Is temp 4 +/- 2°C?								
<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">3-19-04 AS</div>								

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

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

ATTACHMENT C
HISTORIC GROUNDWATER DATA

Table 2
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hejzenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MWV-1	06/06/90	105.31	6.65	6.05	0.00	98.66
	08/16/90		7.00	7.00	0.00	98.31
	08/21/90		7.05	7.05	0.00	98.26
	09/07/90		7.24	7.24	0.00	98.07
	11/20/90		7.46	7.46	0.00	97.85
	11/29/90		7.40	7.40	0.00	97.91
	12/19/90		6.99	6.99	0.00	98.32
	01/29/91		7.23	7.23	0.00	98.08
	02/27/91		7.45	7.45	0.00	97.86
	03/07/91		6.96	6.96	0.00	98.35
	03/26/91		6.02	6.02	0.00	99.29
	05/02/91		7.04	7.04	0.00	98.27
	06/27/91		6.71	6.71	0.00	98.60
	07/24/91		6.91	6.91	0.00	98.40
	08/22/91		6.85	6.85	0.00	98.46
	09/30/91		7.04	7.04	0.00	98.27
	10/17/91		7.22	7.22	0.00	98.09
	11/21/91		7.17	7.17	0.00	98.14
	12/18/91		7.46	7.46	0.00	97.85
	01/19/92		7.44	7.44	0.00	97.87
	02/20/92		6.25	6.25	0.00	99.06
	03/20/92		6.40	6.40	0.00	98.91
	04/20/92		6.88	6.88	0.00	98.43
	05/19/92		7.10	7.10	0.00	98.21
	06/08/92	7.22	7.22	0.00	98.09	
	07/15/92	106.10	7.92	7.92	0.00	97.39
	08/06/92		7.29	7.29	0.00	98.81
	10/29/92		7.34	7.34	0.00	98.76
	11/23/92		8.15	8.15	0.00	97.95
	08/16/93		7.23	7.23	0.00	98.87
	11/17/93		7.51	7.51	0.00	98.59
	02/21/94		6.56	6.56	0.00	99.54
	05/11/94		6.57	6.57	0.00	99.53
	08/12/94		7.12	7.12	0.00	98.98
11/17/94	6.85		6.85	0.00	99.28	
02/22/95	7.35	7.35	0.00	98.75		
05/24/95	7.07	7.07	0.00	99.03		
08/23/95	7.10	7.10	0.00	99.00		
11/17/95	7.72	7.72	0.00	98.38		
MW-2	06/06/90	105.78	9.92*	9.00	0.92	95.86
	08/16/90		NM	NM	0.17	NM
	08/21/90		NM	NM	0.17	NM
	09/07/90		9.34*	9.17	0.17	96.44
	11/20/90		9.20*	9.2	Sheen	96.58
	11/29/90		9.92*	9.92	Sheen	95.86
	12/19/90		8.95	8.95	0/00	96.83
	01/29/91		9.01	9.01	Sheen	96.77
	02/27/91		9.14	9.14	Sheen	96.64
	03/07/91		8.94	8.94	Sheen	96.84
	03/26/91		8.11	8.11	Sheen	97.67
05/02/91	8.72	8.72	0	97.06		

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February 15, 1996

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-2 (cont.)	06/27/91	106.57	9.20	9.2	Sheen	96.58
	07/24/91		9.25	9.25	0.00	96.53
	08/22/91		9.20	9.20	0.00	96.58
	09/30/91		9.31	9.31	Sheen	96.47
	10/17/91		9.39	9.39	Sheen	96.39
	11/21/91		9.20	9.2	0	96.58
	12/18/91		9.23	9.23	Sheen	96.55
	01/19/92		9.96**	9.96	Skimmer	95.82
	02/20/92		9.13**	9.13	Skimmer	96.65
	03/20/92		9.31**	9.31	Skimmer	96.47
	04/20/92		9.69	9.69	Skimmer	96.09
	05/19/92		9.92	9.92	Skimmer	95.86
	06/08/92		9.84	9.84	Skimmer	95.94
	07/15/92		10.19	10.19	Skimmer	95.59
	08/06/92		10.05	10.05	Skimmer	96.52
	10/29/92		10.00	10.00	Skimmer	96.57
	11/23/92		9.88	9.87	0.01	96.69
	12/08/92		Well Destroyed			
MW-3	08/16/90	105.51	8.87	8.87	0.00	96.64
	08/21/90		8.85	8.85	0.00	96.66
	09/07/90		8.98	8.98	0.00	96.53
	11/20/90		9.10	9.10	0.00	96.41
	11/29/90		9.05	9.05	0.00	96.46
	12/19/90		8.67	8.67	0.00	96.84
	01/29/91		8.96	8.96	0.00	96.55
	02/27/91		8.71	8.71	0.00	96.80
	03/07/91		8.49	8.49	0.00	97.02
	03/26/91		7.65	7.65	0.00	97.86
	05/02/91		8.62	8.62	0.00	96.89
	06/27/91		8.94	8.94	0.00	96.57
	07/24/91		8.96	8.96	0.00	96.55
	08/22/91		8.92	8.92	0.00	96.59
	09/30/91		9.04	9.04	0.00	96.47
	10/17/91		9.12	9.12	0.00	96.39
	11/21/91		8.92	8.92	0.00	96.59
	12/18/91		8.97	8.97	0.00	96.54
	01/19/92		8.69	8.69	0.00	96.82
	02/20/92		7.78	7.78	0.00	97.73
	03/20/92		8.15	8.15	0.00	97.36
	04/20/92		8.57	8.57	0.00	96.94
	05/19/92		8.76	8.76	0.00	96.75
	06/08/92		8.74	8.74	0.00	96.77
07/15/92	9.12	9.12	0.00	96.39		
08/06/92	8.95	8.95	0.00	97.34		
10/29/92	8.78	8.78	0.00	97.51		
11/23/92	9.91	9.91	0.00	96.38		
08/16/93	8.62	8.62	0.00	97.67		
11/17/93	8.72	8.72	0.00	97.57		
02/21/94	7.91	7.91	0.00	98.38		
05/11/94	8.09	8.09	0.00	98.20		

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February 15, 1996

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-3 (cont.)	08/12/94		8.78	8.78	0.00	97.51
	11/17/94		8.45	8.45	0.00	97.84
	02/22/95		8.95	8.95	0.00	97.34
	05/24/95		8.67	8.67	0.00	97.62
	08/23/95		9.17	9.17	0.00	97.12
	11/17/95		9.39	9.39	0.00	96.90
MW-4	08/16/90	106.61	8.16	8.16	0.00	98.45
	08/21/90		8.22	8.22	0.00	98.39
	09/07/90		8.39	8.39	0.00	98.22
	11/20/90		8.57	8.57	0.00	98.04
	11/29/90		8.53	8.53	0.00	98.08
	12/19/90		8.13	8.13	0.00	98.48
	01/29/91		8.66	8.66	0.00	97.95
	02/27/91		8.44	8.44	0.00	98.17
	03/07/91		8.18	8.18	0.00	98.43
	03/26/91		7.56	7.56	0.00	99.05
	05/02/91		8.25	8.25	0.00	98.36
	06/27/91		7.75	7.75	0.00	98.86
	07/24/91		8.12	8.12	0.00	98.49
	08/22/91		7.98	7.98	0.00	98.63
	09/30/91		8.26	8.26	0.00	98.35
	10/17/91		8.42	8.42	0.00	98.19
	11/21/91		8.65	8.65	0.00	97.96
	12/18/91		8.77	8.77	0.00	97.84
	01/19/92		8.42	8.42	0.00	98.19
	02/20/92		7.60	7.60	0.00	99.01
	03/20/92		7.61	7.61	0.00	99.00
	04/20/92		8.15	8.15	0.00	98.46
	05/19/92		8.14	8.14	0.00	98.47
	06/08/92		8.40	8.40	0.00	98.21
	07/15/92		8.72	8.72	0.00	97.89
	08/06/92	107.40	8.52	8.52	0.00	98.88
	10/29/92		8.63	8.63	0.00	98.77
	11/23/92		8.75	8.75	0.00	98.65
	08/16/93		8.69	8.69	0.00	98.71
	11/17/93		9.11	9.11	0.00	98.29
	02/21/94		8.16	8.16	0.00	99.24
	05/11/94		8.29	8.29	0.00	99.11
08/12/94		8.75	8.75	0.00	98.65	
11/17/94		8.40	8.40	0.00	99.00	
02/22/95		8.72	8.72	0.00	98.68	
05/24/95		8.63	8.63	0.00	98.77	
08/23/95		6.50	6.50	0.00	100.90	
11/17/95		9.15	9.15	0.00	98.25	
MW-5	08/06/92	105.19	7.19	7.19	0.00	98.00
	10/29/92		6.99	6.99	0.00	98.20
	11/23/92		6.90	6.90	0.00	98.29
	08/16/93		7.06	7.06	0.00	98.13
	11/17/93		6.91	6.91	0.00	98.28
	02/21/94		5.52	5.52	0.00	99.67
	05/11/94		6.18	6.18	0.00	99.01
	08/12/94		6.81	6.81	0.00	98.38
	11/17/94		5.38	5.38	0.00	99.81
	02/22/95		6.25	6.25	0.00	98.94

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February 15, 1996

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Depth to Liquid (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-5 (cont.)	05/24/95		6.30	6.30	0.00	98.89
	08/23/95		6.90	6.90	0.00	98.29
	11/17/95		7.02	7.02	0.00	98.17
MW-6	08/06/92	105.07	7.01	7.01	0.00	98.06
	10/29/92		6.70	6.70	0.00	98.37
	11/23/92		6.75	6.75	0.00	98.32
	08/16/93		6.71	6.71	0.00	98.36
	11/17/93		6.67	6.67	0.00	98.40
	02/21/94		5.31	5.31	0.00	99.76
	05/11/94		5.98	5.98	0.00	99.09
	08/12/94		6.60	6.60	0.00	98.47
	11/17/94		5.09	5.09	0.00	99.98
	02/22/95		5.85	5.85	0.00	99.22
	05/24/95		5.92	5.92	0.00	99.15
	08/23/95		6.50	6.50	0.00	98.57
	11/17/95		6.75	6.75	0.00	98.32
		08/06/92	105.52	8.28	8.28	0.00
10/29/92			8.62	8.62	0.00	96.90
11/23/92			8.21	8.21	0.00	97.31
08/16/93			8.11	8.11	0.00	97.41
11/17/93			8.11	8.11	0.00	97.41
02/21/94			7.34	7.34	0.00	98.18
05/11/94			7.45	7.45	0.00	98.07
08/12/94			8.13	8.13	0.00	97.39
11/17/94			7.90	7.90	0.00	97.62
02/22/95			8.40	8.40	0.00	97.12
05/24/95			8.29	8.29	0.00	97.23
08/23/95			8.60	8.60	0.00	96.92
11/17/95			8.73	8.73	0.00	96.79
RW-1		08/16/93	NM			
	11/17/93					
	02/21/94		7.69	7.69	0.00	NM
	05/11/94		7.96	7.96	0.00	NM
	08/12/94		7.58	7.58	0.00	NM
	11/17/94		7.66	7.66	0.00	NM
	02/22/95		8.00	8.00	0.00	NM
	05/24/95		8.10	8.10	0.00	NM
	08/23/95		8.67	8.67	0.00	NM
	11/17/95		9.15	9.15	0.00	NM

MSL = Mean sea level
TOC = Top of casing
* = Separate-phase hydrocarbons present in well.
** = Skimmer installed (12/24/91).
NM = Not measured

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Table 3
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-1	06/19/90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5000	
	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5000	
	11/29/90	<50	<0.50	0.7	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	06/27/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	09/30/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	12/18/91	<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95	Well Sampled Annually								
11/17/95	Well Sampled Annually								
MW-2	06/19/90	0.92 foot of Separate-Phase Hydrocarbons							
	08/16/90	0.17 foot of Separate-Phase Hydrocarbons							
	09/07/90	Separate-Phase Hydrocarbons							
	11/29/90	Separate-Phase Hydrocarbons							
	03/07/91	Separate-Phase Hydrocarbons							
	06/27/91	Separate-Phase Hydrocarbons							
	09/30/91	Separate-Phase Hydrocarbons							
	12/18/91	Separate-Phase Hydrocarbons							
	03/20/92	48,000	2,000	580	2,300	7,000	N/A	N/A	
	06/08/92	43,000	2,900	940	240	5,100	N/A	N/A	
08/06/92	78,000	2,500	6,700	2,900	16,000	N/A	N/A		
10/29/92	NS	NS	NS	NS	NS	NS	NS		
12/08/92	Well Destroyed								
MW-3	06/19/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/16/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000	
	09/07/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	11/29/90	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	03/07/91	<50	<30	<30	<30	<30	N/A	N/A	
	06/27/91	<30	<30	<30	<30	<30	N/A	N/A	
	09/30/91	<30	<30	<30	<30	<30	N/A	N/A	
	12/18/91	<30	<30	<30	<30	<30	N/A	N/A	
	03/20/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	06/08/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A		

3300412B\4Q95TBLS.XLS!Table3

Table 3 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)	
MW-3 (cont.)	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
	11/17/95	Well Sampled Annually							
	MW-4	08/16/90	<20	<0.50	<0.50	<0.50	<0.50	N/A	N/A
		09/07/90	N/A	N/A	N/A	N/A	N/A	N/A	<5,000
11/29/90		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
03/07/91		<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
06/27/91		<50	0.75	1.1	<0.30	1.6	N/A	N/A	
09/30/91		<50	<0.30	<0.30	<0.30	<0.30	N/A	N/A	
12/18/91		<50	0.83	1.2	<0.30	0.58	N/A	N/A	
03/20/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
06/08/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/08/92		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
10/29/92		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/16/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/93		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
05/11/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
08/12/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
11/17/94		<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
02/22/95		Well Sampled Annually							
05/24/95		<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
08/23/95		Well Sampled Annually							
11/17/95	Well Sampled Annually								
MW-5	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	08/23/95	Well Sampled Annually							
	11/17/95	Well Sampled Annually							
MW-6	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A	
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A	
	02/22/95	Well Sampled Annually							

3300412B4Q95TBLS.XLS(Table3)

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February 15, 1996

Table 3 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, and Total Oil and Grease)

ARCO Service Station 4494
 566 Hegenberger Road at Edes Avenue
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TEPH as Diesel (ppb)	Total Oil and Grease (ppm)
MW-6	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
(cont.)	08/23/95	Well Sampled Annually						
	11/17/95	Well Sampled Annually						
MW-7	08/06/92	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	10/29/92	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/16/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/93	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	05/11/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	08/12/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	11/17/94	<50	<0.5	<0.5	<0.5	<0.5	N/A	N/A
	02/22/95	Well Sampled Annually						
	05/24/95	<50	<0.50	<0.50	<0.50	<0.50	N/A	N/A
	08/23/95	Well Sampled Annually						
	11/17/95	Well Sampled Annually						
RW-1	08/16/93	NS	NS	NS	NS	NS	NS	NS
	11/17/93	NS	NS	NS	NS	NS	NS	NS
	02/22/94	280	2,100	19	40	66	N/A	N/A
	05/11/94	3,300	32	28	87	310	N/A	N/A
	08/12/94	4,600	42	59	190	400	N/A	N/A
	11/17/94	1,400	56	21	28	210	N/A	N/A
	02/22/95	8,100	140	<10	550	560	N/A	N/A
	05/24/95	940	53	0.75	11	1.4	N/A	N/A
	08/23/95	620	2.1	2.3	0.67	0.67	N/A	N/A
	11/17/95	1,100	7.6	21	48	180	N/A	N/A

ppb = Parts per billion
 ppm = Parts per million
 N/A = Not applicable
 NS = Not sampled

3300412B\4Q95TBLS.XLS\Table3

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February 15, 1996

Table 4
Groundwater Analytical Data
Total Methyl t-Butyl Ether

ARCO Service Station 4494
566 Hegenberger Road at Edes Avenue
Oakland, California

Well Number	Date Sampled	Methyl t-Butyl Ether (ppb)
MW-1	08/23/95	NS
MW-2	08/23/95	NS
MW-3	08/23/95	NS
MW-4	08/23/95	NS
MW-5	08/23/95	NS
MW-6	08/23/95	NS
MW-7	08/23/95	NS
RW-1	08/23/95	13

ppb = Parts per billion
NS = Not sampled
See certified analytical report for detection limit.

ATTACHMENT D

**EDCC REPORT AND EDF/GEOWELL SUBMITTAL
CONFIRMATION**

Error Summary Log

04/01/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #4494, Oakland, CA
Work Order Number:	MNC0575
Global ID:	T0600100104
Lab Report Number:	MNC0575033120041628

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MNC0575033120 041628	MW-1	MNC057501	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/29/04	4C29004	1
MNC0575033120 041628	MW-3	MNC057502	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/29/04	4C29004	1
MNC0575033120 041628	MW-4	MNC057503	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/29/04	4C29004	1
MNC0575033120 041628	MW-5	MNC057504	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/29/04	4C29004	1
MNC0575033120 041628	MW-6	MNC057505	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/29/04	4C29004	1
MNC0575033120 041628	MW-7	MNC057506	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/30/04	4C29004	1
MNC0575033120 041628	RW-1	MNC057507	W	CS	8260TPH	SW5030B	03/18/04	03/29/04	03/29/04	4C29004	1
		4C29004BSD1	WQ	BD1	8260TPH	SW5030B	//	03/29/04	03/29/04	4C29004	1
		4C29004BSD2	WQ	BD2	8260TPH	SW5030B	//	03/29/04	03/29/04	4C29004	1
		4C29004BS1	WQ	BS1	8260TPH	SW5030B	//	03/29/04	03/29/04	4C29004	1
		4C29004BS2	WQ	BS2	8260TPH	SW5030B	//	03/29/04	03/29/04	4C29004	1
		4C29004BLK1	WQ	LB1	8260TPH	SW5030B	//	03/29/04	03/29/04	4C29004	1

EDFSAMP: Error Summary Log

04/01/04

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

EDFTEST: Error Summary Log

04/01/04

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

EDFRES: Error Summary Log

04/01/04

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

EDFQC: Error Summary Log

04/01/04

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

EDFCL: Error Summary Log

04/01/04

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

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Date/Time of Submittal: 4/1/2004 2:33:56 PM

Facility Global ID: T0600100104

Facility Name: ARCO # 04494

Submittal Title: 1Q04-monitoring Report for site 4494

Submittal Type: GW Monitoring Report

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Submittal Title: 1Q04- geowell data for site
4494

Submittal Date/Time: 3/22/2004 11:26:31 AM

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