R0204

Atlantic Richfield Company
(a BP affiliated company)

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

July 27, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Second Quarter 2004 Groundwater Monitoring Report
Atlantic Richfield Company Service Station #4494
566 Hegenberger Road
Oakland, California
URS Project #38486721

I declare that, to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple
Environmental Business Manager

URS

July 27, 2004

Mr. Robert Schultz
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Second Quarter 2004 Groundwater Monitoring Report
Atlantic Richfield Company Service Station #4494
566 Hegenberger Road
Oakland, California
URS Project #38486721

Dear Mr. Schultz:

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

REGISTERED GEOLOGIST
JAMES F. DURKIN
No. 759
CERTIFIED HYDROGEOLOGIST
Exp. 2/28/05
STATE OF CALIFORNIA

Scott Robinson
Project Manager

James F. Durkin, C.Hg.
Senior Geologist

Enclosure: Second Quarter 2004 Groundwater Monitoring Report

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

URS Corporation
1333 Broadway, Suite 800
Oakland, CA 94612-1924
Tel: 510.893.3600
Fax: 510.874.3268

REPORT

SECOND QUARTER 2004 GROUNDWATER MONITORING

ATLANTIC RICHFIELD COMPANY
SERVICE STATION #4494
566 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

Prepared for
Atlantic Richfield Company

July 27, 2004

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

38486721

Date: July 27, 2004

Quarter: 2Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

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

WORK PERFORMED THIS QUARTER (Second – 2004):

1. Performed second quarter 2004 monitoring event on May 25, 2004.
2. Prepared and submitted second quarter groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Third– 2004):

1. Perform third quarter 2004 groundwater monitoring event.
2. Prepare and submit third 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:	6.30 (MW-6) to 9.55 (MW-3) feet
Groundwater Gradient (direction):	North-Northwest
Groundwater Gradient (magnitude):	0.011 feet per foot

DISCUSSION:

Gasoline Range Organics (GRO) and benzene were not detected at or above the laboratory reporting limit in either of the two wells sampled this quarter. Methyl tert-butyl ether (MTBE) was detected above the laboratory reporting limit in both wells sampled, at concentrations of 4.1 µg/L (MW-7) to 120 µg/L (MW-1). Tert-Butyl alcohol (TBA) was detected in one well at a concentration of 43 µg/L (MW-7). No other fuel additives were detected above their respective laboratory reporting limits.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – May 25, 2004
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – Fuel Additive 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

COLISEUM WAY

Canal

C-1

HEGENBERGER ROAD

MW-3
-5.18
3,900
ND<10
140

BW-D
NA
ND<50
1.4
2

BW-C
NA
NS
NS
NS

BW-A
NA
NS
NS
NS

BW-B
NA
NS
NS
NS

MW-1
3.72*
ND<250
ND<2.5
250

MW-2
0.79
ND<50
ND<0.50
53

MW-5
-2.99
ND<50
ND<0.50
30

MW-1
3.81
ND<250
ND<2.5
120
Q

MW-7
2.14
ND<50
ND<0.50
4.1
Q

MW-3
2.07
NS
NS
NS
SA(1,3)

MW-4
4.15
NS
NS
NS
SA(1,3)

MW-4
1.58
ND<50
ND<0.50
20

MW-5
3.86
NS
NS
NS
SA(1,3)

MW-6*
4.11
NS
NS
NS
SA(1,3)

MW-2
(destroyed
12/92)

RW-1*
3.65
NS
NS
NS
SA(1,3)

Shell-branded Service Station
540 Hegenberger

ARCO Service Station #4494
566 Hegenberger

AM/PM Mini-Mart

carwash

Remediation compound

building

dispensers

USTs

Former W/O UST

dispenser islands

canopy

driveway

sidewalk

planter

storage

EDES AVE

ENTERPRISE WAY

Jack in the Box

Laborers' International Union

Burger King

Days Inn

ARCO property line

approximate ARCO property line

0.011

3.00

2.50

3.50

4.00

0.00

SD-1

SD-2

EXPLANATION

- Shell monitoring well
- Tank backfill well
- Well used for groundwater extraction
- ARCO monitoring well
- ARCO recovery well
- Canal sampling location

Well
ELEV
GRO
Benzene
MTBE
Q or A

- Well designation
- Groundwater elevation
- Concentration of GRO, Benzene and MTBE in groundwater (µg/L)
- Sampling period

SA(1,3) Sampled semi-annually, 1st & 3rd quarters
NA Not available
ND< Not detected at or above laboratory reporting limits
NS Not sampled
Q Sampled quarterly
* Not used in contouring
0.011 Approximate groundwater flow direction and gradient (ft/ft)
3.00 Groundwater elevation contour (ft/MSL) (dashed where estimated)

NOTES: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMESIONS AND FACILITY LOCATIONS NOT VERIFIED.

BECAUSE OF SHELL'S EXTRACTION WELL PROGRAM, A CONE OF DEPRESSION HAS BEEN CREATED AND THEREFORE THE GROUNDWATER ELEVATIONS FOR THIS SITE ARE LOW COMPARED TO ATLANTIC RICHFIELD COMPANY'S ONSITE WELLS.

NORTH

0 20 40 80

Scale (ft)

URS	Project No. 38486721 Atlantic Richfield Company Service Station 4494 566 Hegenberger Road Oakland, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2004 (May 3, 2004)	FIGURE 1

Jul 23, 2004 - 3:29pm
X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\4494\Monitoring\Qtr. 2, 2004\NEW-GWEC-AS_5-21.dwg

Table 1
Groundwater Elevation and Analytical Data

Atlantic Richfield Company 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) [6]	pH [6]
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 [f]	11.36			7.78	3.58	ND<50	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
	05/25/04				**7.55**	**3.81**	**ND<250**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**120**	**1.3**	**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<1.0	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 [f]	11.62			9.48	2.14	ND<50	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	Sampled semi-annually 1st and 3rd quarter.							
	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
	05/25/04				**9.55**	**2.07**	**Sampled semi-annualy 1st and 3rd quarter.**							

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Oakland, California

Well Number	Date Sampled	Top of Riser Elevation (ft) [e]	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-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<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<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<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<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<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<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<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	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<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<2.5	5.6	6.2
	03/20/03 [a]				8.85	98.55	ND<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	6.3	7.5
	09/22/03 [f]	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	Sampled semi-annualy 1st and 3rd quarter.							
	03/18/04				8.32	4.86	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.5	8.4
	05/25/04				**9.03**	**4.15**	**Sampled semi-annualy 1st and 3rd quarter.**							
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<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<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<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<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<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<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<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	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<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 [a]				6.40	98.79	ND<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	1.3	7.2
	09/22/03 [f]	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	Sampled semi-annualy 1st and 3rd quarter.							
	03/18/04				5.98	4.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.7	7.3
	05/25/04				**6.77**	**3.86**	**Sampled semi-annualy 1st and 3rd quarter.**							

Table 1
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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-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[a]	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	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	2.0	7.1
	09/22/03 [f]	10.41			6.43	3.98	ND<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	Sampled semi-annualy 1st and 3rd quarter.							
	03/18/04				5.40	5.01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.9	7.2
	05/25/04				**6.30**	**4.11**	**Sampled semi-annualy 1st and 3rd quarter.**							
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[a]	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[a]	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	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	14	0.8	7.1
	09/22/03 [f]	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	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	3.0	1.0	7.2
	05/25/04				**8.37**	**2.14**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**4.1**	**0.7**	**7.1**

Table 1
Groundwater Elevation and Analytical Data

Atlantic Richfield Company 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<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<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<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[b,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	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	1.1	7.3
	09/22/03 [f]	11.97			8.42	3.55	ND<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	Sampled semi-annualy 1st and 3rd quarter.							
	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
	05/25/04				**8.32**	**3.65**	**Sampled semi-annualy 1st and 3rd quarter.**							

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 specifed 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 elvations 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.

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. Beginnig in the Second Quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

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

Atlantic Richfield Company 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
05/25/04	**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 Additive Analytical Data

Atlantic Richfield Company 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
	05/25/04	**ND<500**	**ND<100**	**120**	**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
	05/25/04	**ND<100**	**43**	**4.1**	**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 Additive Analytical Data

Atlantic Richfield Company 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 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 # 040525-SP2 Date 5-25-04 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					7.55	23.00	TOC	
MW-3	4					9.55	17.90		GO
MW-4	4					9.03	16.61		GO
MW-5	2					6.77	16.97		GO
MW-6	2					6.30	18.09		GO
MW-7	4					8.37	13.47		
RW-1	2					8.32	11.30		GO

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040525-JP2	Station #4494
Sampler: JP	Date: 5-25-04
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 23.00	Depth to Water: 7.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 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.

10.0 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 30.0 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or (µS))	Gals. Removed	Observations
1345	70.3	8.1	8231	10	clear
1347	70.8	7.0	16.7 (mS)	20	"
1350	70.4	7.0	26.6 (mS)	30	"

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1355 Sampling Date: 5-25-04

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

Analyzed for: GRO BTEX MTBE DRO Other: Refer to COC

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

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040525-JP2	Station # 4494
Sampler: JP	Date: 5-25-04
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 13.47	Depth to Water: 8.37
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 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.

3.3 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 9.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
1328	77.7	7.8	767	3.3	clear
1329	72.7	6.9	8554	6.6	Cloudy, yellow
1330	70.2	7.1	7149	9.9	" "

Did well dewater? Yes (No) Gallons actually evacuated: 9.9

Sampling Time: 1335 Sampling Date: 5-25-04

Sample I.D.: MW-7 Laboratory: Pace (Sequoia) Other ___

Analyzed for: GRO BTEX MTBE DRO Other: Refer to COC

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

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 Rd, 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 # 23

BTS event #	time	date
040525-JP2	1400	5/25/04

signature Matthew Pyrch

* *

REC'D AT	time	date
		/ /

unloaded by signature

ATTACHMENT B

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

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (a)	8/26/1998	2,700	28	55	59	39	33,000	NA	10.54	7.91	2.63	1.8
MW-1 (b)	8/26/1998	<1,000	22	<10	<10	<10	17,000	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	10.54	8.75	1.79	1.9
MW-1	3/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	10.54	8.32	2.22	2.0
MW-1	6/22/1999	20,000	<200	<200	<200	<200	150,000	NA	10.54	9.05	1.49	1.7
MW-1	9/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	10.54	8.35	2.19	2.6
MW-1	11/19/1999	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/1999	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/2/1999	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/1999	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	10.54	8.86	1.68	1.2
MW-1	3/2/2000	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	10.54	8.83	1.71	3.2
MW-1	6/8/2000	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	10.54	7.78	2.76	1.9
MW-1	9/5/2000	<10,000	411	<100	<100	<100	71,100	115,000e	10.54	7.84	2.70	NA
MW-1	12/15/2000	35,600	1,310	<50.0	<50.0	<50.0	136,000	f	10.54	7.65	2.89	NA
MW-1	3/9/2001	<10,000	1,390	<100	<100	<100	89,600	164,000	10.54	6.44	4.10	NA
MW-1	6/27/2001	<5,000	<50	<50	<50	<50	NA	19,000	10.54	8.46	2.08	NA
MW-1	9/19/2001	<5,000	<50	<50	<50	<50	NA	52,000	10.54	8.10	2.44	NA
MW-1	12/31/2001	<5,000	<25	<25	<25	<25	NA	17,000	10.54	7.31	3.23	NA
MW-1	3/14/2002	<20,000	<200	<200	<200	<200	NA	60,000	10.54	7.68	2.86	NA
MW-1	6/25/2002	<5,000	<50	<50	<50	<50	NA	34,000	10.54	8.40	2.14	NA
MW-1	9/19/2002	<2,500	<25	<25	<25	<25	NA	18,000	10.52	8.58	1.94	NA
MW-1	12/12/2002	<5,000	<50	<50	<50	<50	NA	30,000	10.52	8.41	2.11	NA
MW-1	1/2/2003	NA	<0.50	<0.50	<0.50	<1.0	NA	NA	10.52	7.45	3.07	NA
MW-1	03/20/2003 g	3,800	<25	<25	<25	<25	5,500	NA	10.52	8.21	2.31	NA
MW-1	6/23/2003	<10,000	<100	<100	<100	<200	NA	35,000	10.52	9.02	1.50	NA
MW-1	9/22/2003	<5,000	<50	<50	<50	<100	NA	15,000	10.52	15.74	-5.22	NA
MW-1	12/3/2003	<1,300	<13	<13	<13	<25	NA	3,600	10.52	18.35 h	NA	NA
MW-1	3/18/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	570	10.52	7.32	3.20	NA
MW-1	**5/25/2004**	**<250**	**<2.5**	**<2.5**	**<2.5**	**<5.0**	**NA**	**250**	**10.52**	**6.80**	**3.72**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2 (a)	8/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	9.21	7.18	2.03	2.4
MW-2 (b)	8/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	8/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	9.21	7.34	1.87	2.1
MW-2	3/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	9.21	6.85	2.36	2.0
MW-2	6/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.21	7.10	2.11	1.9
MW-2	9/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	9.21	8.06	1.15	1.0
MW-2	12/10/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	9.21	8.61	0.60	1.4
MW-2	3/2/2000	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	9.21	6.33	2.88	0.4
MW-2	6/8/2000	<50.0	0.670	<0.500	<0.500	<0.500	3,160	NA	9.21	6.87	2.34	1.6
MW-2	9/5/2000	<1,000	<10.0	<10.0	<10.0	<10.0	9,600	NA	9.21	6.79	2.42	NA
MW-2	12/15/2000	<200	<2.00	<2.00	<2.00	<2.00	6,320	NA	9.21	6.76	2.45	NA
MW-2	3/9/2001	<500	<5.00	<5.00	<5.00	<5.00	17,200	NA	9.21	6.28	2.93	NA
MW-2	6/27/2001	<100	1.4	<1.0	<1.0	<2.0	NA	470	9.21	7.12	2.09	NA
MW-2	9/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	330	9.21	7.17	2.04	NA
MW-2	12/31/2001	<100	<1.0	<1.0	<1.0	<1.0	NA	420	9.21	6.24	2.97	NA
MW-2	3/14/2002	<250	4.5	3.3	<2.5	<2.5	NA	1,600	9.21	6.72	2.49	NA
MW-2	6/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	9.21	7.23	1.98	NA
MW-2	9/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	90	9.19	7.48	1.71	NA
MW-2	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	170	9.19	7.33	1.86	NA
MW-2	03/20/2003 g	56	<0.50	<0.50	<0.50	<0.50	58	NA	9.19	7.65	1.54	NA
MW-2	6/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	44	9.19	8.72	0.47	NA
MW-2	9/22/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	37	9.19	8.84	0.35	NA
MW-2	12/3/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	99	9.19	8.95	0.24	NA
MW-2	3/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	9.19	7.19	2.00	NA
MW-2	**5/25/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**53**	**9.19**	**8.40**	**0.79**	**NA**
MW-3 (a)	8/26/1998	2,300	180	330	<0.50	420	44,000	NA	9.45	6.52	2.93	1.8
MW-3 (b)	8/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5.00	139	<50.0	<50.0	<50.0	15,100	NA	9.45	6.73	2.72	1.7

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	3/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 (c)	9.45	6.21	3.24	2.1
MW-3	6/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	9.45	7.00	2.45	1.3
MW-3	9/30/1999	4,360	121	122	36.1	647	33,700	35,600	9.45	6.84	2.61	0.6
MW-3	11/19/1999	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/1999	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/2/1999	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/1999	4,220	973	26.3	273	584	88,200	NA	9.45	7.28	2.17	2.5
MW-3	3/2/2000	65,300	5,210	10,300	2,650	15,100	56,800	59,800e	9.45	5.87	3.58	d
MW-3	6/8/2000	72,700	3,570	10,200	2,100	13,400	44,400	NA	9.45	5.32	4.13	1.1
MW-3	9/5/2000	26,100	959	2,910	1,090	5,640	24,000	NA	9.45	5.60	3.85	NA
MW-3	12/15/2000	5,190	438	8.39	483	530	19,100	11,800f	9.45	6.27	3.18	NA
MW-3	3/9/2001	5,880	472	42.2	392	1,290	41,800	NA	9.45	5.71	3.74	NA
MW-3	6/27/2001	9,100	330	79	140	1,600	NA	31,000	9.45	6.88	2.57	NA
MW-3	9/19/2001	790	14	18	17	67	NA	8,100	9.45	6.70	2.75	NA
MW-3	12/31/2001	<5,000	220	<50	86	<50	NA	22,000	9.45	5.92	3.53	NA
MW-3	3/14/2002	<2,500	<25	<25	<25	<25	NA	12,000	9.45	6.25	3.20	NA
MW-3	6/25/2002	<10,000	160	<100	<100	<100	NA	42,000	9.45	6.65	2.80	NA
MW-3	9/19/2002	<10,000	650	<100	280	360	NA	84,000	9.45	6.51	2.94	NA
MW-3	12/12/2002	<10,000	170	<100	<100	<100	NA	45,000	9.45	6.97	2.48	NA
MW-3	1/2/2003	NA	59	<5.0	5.3	<10	NA	NA	9.45	5.90	3.55	NA
MW-3	03/20/2003 g	5,100	<50	<50	<50	<50	4,400	NA	9.45	6.87	2.58	NA
MW-3	6/23/2003	<5,000	<50	<50	<50	<100	NA	8,100	9.45	13.80	-4.35	NA
MW-3	9/22/2003	<250	<2.5	4.6	<2.5	<5.0	NA	470	9.45	6.31	3.14	NA
MW-3	12/3/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	180	9.45	14.77 h	NA	NA
MW-3	3/18/2004	<1,000	14	<10	<10	<20	NA	2,500	9.45	6.07	3.38	NA
MW-3	**5/25/2004**	**3900**	**<10**	**66.0**	**23.0**	**470.0**	**NA**	**140**	**9.45**	**14.63**	**-5.18**	**NA**
MW-4	9/25/2000	NA	NA	NA	NA	NA	NA	NA	9.88	7.64	2.24	NA
MW-4	12/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	9.88	7.55	2.33	NA
MW-4	3/9/2001	<50.0	<0.500	0.730	<0.500	0.529	3.16	NA	9.88	7.04	2.84	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	6/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	7.76	2.12	NA
MW-4	9/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	7.69	2.19	NA
MW-4	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	7.08	2.80	NA
MW-4	3/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	7.57	2.31	NA
MW-4	6/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	8.50	1.38	NA
MW-4	9/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	8.22	1.66	NA
MW-4	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.88	8.08	1.80	NA
MW-4	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	9.88	7.92	1.96	NA
MW-4	6/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	9.88	8.18	1.70	NA
MW-4	9/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	16	9.88	8.28	1.60	NA
MW-4	12/3/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	15	9.88	8.44	1.44	NA
MW-4	3/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	15	9.88	7.52	2.36	NA
MW-4	**5/25/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**20**	**9.88**	**8.30**	**1.58**	**NA**
MW-5	6/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	8.36	NA	NA
MW-5	6/25/2002	<10,000	<100	<100	<100	<100	NA	60,000	NA	8.30	NA	NA
MW-5	9/19/2002	<2,000	<20	<20	<20	<20	NA	7,200	10.03	8.44	1.59	NA
MW-5	12/12/2002	<5,000	<50	<50	<50	<50	NA	33,000	10.03	8.49	1.54	NA
MW-5	03/20/2003 g	12,000	<50	<50	<50	<50	15,000	NA	10.03	8.23	1.80	NA
MW-5	6/23/2003	<1,000	<10	<10	<10	<20	NA	1,700	10.03	16.70	-6.67	NA
MW-5	9/22/2003	<2,500	<25	<25	<25	<50	NA	4,400	10.03	16.70	-6.67	NA
MW-5	12/3/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	70	10.03	16.79	-6.76	NA
MW-5	3/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	43	10.03	16.78	-6.75	NA
MW-5	**5/25/2004**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**30**	**10.03**	**13.02**	**-2.99**	**NA**
C-1	9/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	1.44	NA	NA
C-1	3/29/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	2.59	NA	NA
C-1	6/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	3.72	NA	NA
C-1	9/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	3.08	NA	NA
C-1	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	0.64	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
C-1	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	4.61	NA	NA
SD-1	9/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	3/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	6/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	9/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	3/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	9/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	3/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	6/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	9/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	3/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-A	6/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	4.71	NA	1.1
BW-A	6/25/2002	<500	<5.0	<5.0	<5.0	18	NA	3,100	NA	5.14	NA	NA
BW-A	9/19/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	<20	NA	7.19	NA	NA
BW-A	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,900	NA	6.40	NA	NA
BW-A	03/20/2003 g	<2,500	<25	<25	<25	<25	<250	NA	NA	5.36	NA	NA
BW-A	6/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	10.27	NA	NA
BW-B	6/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	5.90	NA	1.2
BW-B	6/27/2001	<5,000	<50	<50	<50	<50	NA	40,000	NA	5.83	NA	NA
BW-B	12/31/2001	<2,000	<20	<20	<20	<20	NA	9,200	NA	4.19	NA	NA
BW-B	3/14/2002	<2,000	<20	<20	<20	<20	NA	9,400	NA	5.24	NA	NA
BW-B	6/25/2002	<2,000	<20	<20	<20	<20	NA	6,600	NA	6.19	NA	NA
BW-B	9/19/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	<50	NA	8.46	NA	NA
BW-B	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	1,700	NA	7.46	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

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BW-B	03/20/2003 g	170	<1.0	<1.0	<1.0	<1.0	190	NA	NA	6.23	NA	NA
BW-B	6/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	9.95	NA	NA
BW-C	6/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	5.91	NA	1.6
BW-C	6/25/2002	<5,000	<50	<50	<50	<50	NA	20,000	NA	6.49	NA	NA
BW-C	9/19/2002	<1,000	<10	<10	<10	<10	NA	400	NA	8.52	NA	NA
BW-C	12/12/2002	<2,000	<20	<20	<20	<20	NA	8,000	NA	7.57	NA	NA
BW-C	03/20/2003 g	270	<1.0	<1.0	<1.0	<1.0	250	NA	NA	6.48	NA	NA
BW-C	6/23/2003	<1,000	<10	<10	<10	<20	NA	170	NA	11.48	NA	NA
BW-D	6/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	4.78	NA	1.4
BW-D	6/25/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-D	7/2/2002	<1,000	23	<10	<10	<10	NA	<100	NA	6.36	NA	NA
BW-D	9/19/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	<25	NA	7.25	NA	NA
BW-D	12/12/2002	<5,000	<50	<50	<50	<50	NA	16,000	NA	6.21	NA	NA
BW-D	03/20/2003 g	71	<0.50	<0.50	<0.50	<0.50	55	NA	NA	5.23	NA	NA
BW-D	6/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	10.25	NA	NA
BW-D	9/22/2003	<100	<1.0	<1.0	<1.0	<2.0	NA	120	NA	10.18	NA	NA
BW-D	12/3/2003	<1,300	110	<13	<13	29	NA	560	NA	10.20	NA	NA
BW-D	3/18/2004	<50	0.67	<0.50	<0.50	<1.0	NA	12	NA	3.42	NA	NA
BW-D	**5/25/2004**	**<50**	**1.4**	**0.96**	**<0.50**	**<1.0**	**NA**	**2**	**NA**	**8.83**	**NA**	**NA**

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ppm = Parts per million

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

ug/L = Parts per billion
MSL = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable

Notes:
a = Pre-purge
b = Post purge
c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.
d = DO reading not taken.
e = Sample was analyzed outside of the EPA recommended holding time.
f = The second highest MTBE hit was mistakenly confirmed. MTBE for MW-1 should have been confirmed.
g = On March 20, 2003, all analyses run by EPA Method 8015/8020.
h = Depth to top of pump; pump prevented depth to water measurement.
Site surveyed September 21, 2000, by Virgil Chavez Land Surveying of Vallejo, California.
C-1 is a canal sample location.
SD-1 and SD-2 are storm drains.
Wells MW-1 through MW-5 surveyed January 24 and June 19, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

SEVERN TRENT STL

Submission#: 2004-05-0886

Blaine Tech Services, Inc.

June 09, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 040525-JP1
Project: 98995752
Site: 540 Hegenberger Road, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 05/25/2004 16:27
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/09/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

SEVERN TRENT STL

Submission #: 2004-05-0886

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	05/25/2004 09:05	Water	1
MW-2	05/25/2004 11:20	Water	2
MW-3	05/25/2004 09:10	Water	3
MW-4	05/25/2004 10:25	Water	4
MW-5	05/25/2004 09:25	Water	5
BW-D	05/25/2004 11:00	Water	6

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B
Test(s): 8260B

Sample ID: **MW-1**
Lab ID: 2004-05-0886 - 1

Sampled: 05/25/2004 09:05
Extracted: 6/3/2004 19:42

Matrix: Water
QC Batch#: 2004/06/03-2A.68

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	06/03/2004 19:42	
Benzene	ND	2.5	ug/L	5.00	06/03/2004 19:42	
Toluene	ND	2.5	ug/L	5.00	06/03/2004 19:42	
Ethylbenzene	ND	2.5	ug/L	5.00	06/03/2004 19:42	
Total xylenes	ND	5.0	ug/L	5.00	06/03/2004 19:42	
Methyl tert-butyl ether (MTBE)	250	2.5	ug/L	5.00	06/03/2004 19:42	
Surrogate(s)						
1,2-Dichloroethane-d4	119.0	76-130	%	5.00	06/03/2004 19:42	
Toluene-d8	103.2	78-115	%	5.00	06/03/2004 19:42	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B
Sample ID: **MW-2**
Sampled: 05/25/2004 11:20
Matrix: Water

Test(s): 8260B
Lab ID: 2004-05-0886 - 2
Extracted: 6/3/2004 20:01
QC Batch#: 2004/06/03-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/03/2004 20:01	
Benzene	ND	0.50	ug/L	1.00	06/03/2004 20:01	
Toluene	ND	0.50	ug/L	1.00	06/03/2004 20:01	
Ethylbenzene	ND	0.50	ug/L	1.00	06/03/2004 20:01	
Total xylenes	ND	1.0	ug/L	1.00	06/03/2004 20:01	
Methyl tert-butyl ether (MTBE)	53	0.50	ug/L	1.00	06/03/2004 20:01	
Surrogate(s)						
1,2-Dichloroethane-d4	106.4	76-130	%	1.00	06/03/2004 20:01	
Toluene-d8	99.4	78-115	%	1.00	06/03/2004 20:01	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B
Test(s): 8260B

Sample ID: **MW-3**
Lab ID: 2004-05-0886 - 3

Sampled: 05/25/2004 09:10
Extracted: 6/3/2004 20:20

Matrix: Water
QC Batch#: 2004/06/03-2A.68

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3900	1000	ug/L	20.00	06/03/2004 20:20	
Benzene	ND	10	ug/L	20.00	06/03/2004 20:20	
Toluene	66	10	ug/L	20.00	06/03/2004 20:20	
Ethylbenzene	23	10	ug/L	20.00	06/03/2004 20:20	
Total xylenes	470	20	ug/L	20.00	06/03/2004 20:20	
Methyl tert-butyl ether (MTBE)	140	10	ug/L	20.00	06/03/2004 20:20	
Surrogate(s)						
1,2-Dichloroethane-d4	107.0	76-130	%	20.00	06/03/2004 20:20	
Toluene-d8	105.9	78-115	%	20.00	06/03/2004 20:20	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B
Sample ID: **MW-4**
Sampled: 05/25/2004 10:25
Matrix: Water

Test(s): 8260B
Lab ID: 2004-05-0886 - 4
Extracted: 6/3/2004 20:39
QC Batch#: 2004/06/03-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/03/2004 20:39	
Benzene	ND	0.50	ug/L	1.00	06/03/2004 20:39	
Toluene	ND	0.50	ug/L	1.00	06/03/2004 20:39	
Ethylbenzene	ND	0.50	ug/L	1.00	06/03/2004 20:39	
Total xylenes	ND	1.0	ug/L	1.00	06/03/2004 20:39	
Methyl tert-butyl ether (MTBE)	20	0.50	ug/L	1.00	06/03/2004 20:39	
Surrogate(s)						
1,2-Dichloroethane-d4	110.9	76-130	%	1.00	06/03/2004 20:39	
Toluene-d8	106.5	78-115	%	1.00	06/03/2004 20:39	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B
Sample ID: **MW-5**
Sampled: 05/25/2004 09:25
Matrix: Water

Test(s): 8260B
Lab ID: 2004-05-0886 - 5
Extracted: 6/3/2004 15:04
QC Batch#: 2004/06/03-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/03/2004 15:04	
Benzene	ND	0.50	ug/L	1.00	06/03/2004 15:04	
Toluene	ND	0.50	ug/L	1.00	06/03/2004 15:04	
Ethylbenzene	ND	0.50	ug/L	1.00	06/03/2004 15:04	
Total xylenes	ND	1.0	ug/L	1.00	06/03/2004 15:04	
Methyl tert-butyl ether (MTBE)	30	0.50	ug/L	1.00	06/03/2004 15:04	
Surrogate(s)						
1,2-Dichloroethane-d4	98.7	76-130	%	1.00	06/03/2004 15:04	
Toluene-d8	103.4	78-115	%	1.00	06/03/2004 15:04	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B
Sample ID: **BW-D**
Sampled: 05/25/2004 11:00
Matrix: Water

Test(s): 8260B
Lab ID: 2004-05-0886 - 6
Extracted: 6/3/2004 20:58
QC Batch#: 2004/06/03-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/03/2004 20:58	
Benzene	1.4	0.50	ug/L	1.00	06/03/2004 20:58	
Toluene	0.96	0.50	ug/L	1.00	06/03/2004 20:58	
Ethylbenzene	ND	0.50	ug/L	1.00	06/03/2004 20:58	
Total xylenes	ND	1.0	ug/L	1.00	06/03/2004 20:58	
Methyl tert-butyl ether (MTBE)	1.7	0.50	ug/L	1.00	06/03/2004 20:58	
Surrogate(s)						
1,2-Dichloroethane-d4	112.0	76-130	%	1.00	06/03/2004 20:58	
Toluene-d8	98.8	78-115	%	1.00	06/03/2004 20:58	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/06/03-1B.65**

MB: 2004/06/03-1B.65-048 — Date Extracted: 06/03/2004 11:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/03/2004 11:48	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/03/2004 11:48	
Benzene	ND	0.5	ug/L	06/03/2004 11:48	
Toluene	ND	0.5	ug/L	06/03/2004 11:48	
Ethylbenzene	ND	0.5	ug/L	06/03/2004 11:48	
Total xylenes	ND	1.0	ug/L	06/03/2004 11:48	
Surrogates(s)					
1,2-Dichloroethane-d4	93.8	76-130	%	06/03/2004 11:48	
Toluene-d8	104.4	78-115	%	06/03/2004 11:48	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2004/06/03-2A.68**

MB: 2004/06/03-2A.68-014 — Date Extracted: 06/03/2004 17:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/03/2004 17:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/03/2004 17:14	
Benzene	ND	0.5	ug/L	06/03/2004 17:14	
Toluene	ND	0.5	ug/L	06/03/2004 17:14	
Ethylbenzene	ND	0.5	ug/L	06/03/2004 17:14	
Total xylenes	ND	1.0	ug/L	06/03/2004 17:14	
Surrogates(s)					
1,2-Dichloroethane-d4	106.8	76-130	%	06/03/2004 17:14	
Toluene-d8	103.4	78-115	%	06/03/2004 17:14	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2004/06/03-1B.65**

LCS 2004/06/03-1B.65-059 Extracted: 06/03/2004 Analyzed: 06/03/2004 10:59

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.8		25	87.2			65-165	20		
Benzene	27.9		25	111.6			69-129	20		
Toluene	25.5		25	102.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	406		500	81.2			76-130			
Toluene-d8	517		500	103.4			78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike | **Water** | **QC Batch # 2004/06/03-2A.68**

LCS 2004/06/03-2A.68-036 Extracted: 06/03/2004 Analyzed: 06/03/2004 16:36

LCSD 2004/06/03-2A.68-034 Extracted: 06/03/2004 Analyzed: 06/03/2004 17:34

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.9	23.6	25	95.6	94.4	1.3	65-165	20		
Benzene	24.7	24.4	25	98.8	97.6	1.2	69-129	20		
Toluene	26.2	26.1	25	104.8	104.4	0.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	463	485	500	92.6	97.0		76-130			
Toluene-d8	520	485	500	104.0	97.0		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/06/03-1B.65**

MW-5 >> MS

Lab ID: 2004-05-0886 - 005

MS: 2004/06/03-1B.65-028 Extracted: 06/03/2004 Analyzed: 06/03/2004 15:28

Dilution: 1.00

MSD: 2004/06/03-1B.65-052 Extracted: 06/03/2004 Analyzed: 06/03/2004 15:52

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	26.9	26.0	ND	25	107.6	104.0	3.4	69-129	20		
Toluene	25.7	25.8	ND	25	102.8	103.2	0.4	70-130	20		
Methyl tert-butyl ether	57.8	59.4	29.8	25	112.0	118.4	5.6	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	502	498		500	100.4	99.6		76-130			
Toluene-d8	545	523		500	109.0	104.6		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 040525-JP1
98995752

Received: 05/25/2004 16:27

Site: 540 Hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

LAB: STL

Lab Identification (if necessary):

Address

City, State, Zip

SHELL Chain Of Custody Record

86252

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-05-0886

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 5·25·04

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland

GLOBAL ID NO.: T0600102123

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml

PHONE NO.: (510)420-3335

E-MAIL: ShellOaklandEDF@cambria-env.com

CONSULTANT PROJECT NO.: 240525-JP1

BTS #

PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart

SAMPLER NAME(S) (Print): Matthew Pyrch

TELEPHONE: 408-573-0555

FAX: 408-573-7771

E-MAIL: lgearhart@blainetech.com

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST ______ HIGHEST per BORING ______ ALL ______

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	5·25·04	0905	W	3	X	X		X																	TEMPERATURE ON RECEIPT C°: 6° C
	MW-2	↓	1120	↓	↓	X	X		X																	
	MW-3	↓	0910	↓	↓	X	X		X																	
	MW-4	↓	1025	↓	↓	X	X		X																	
	MW-5	↓	0925	↓	↓	X	X		X																	
	BW-D	↓	1100	↓	↓	X	X		X																	

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Matthew Pyrch	[signature]	5/25/04	1627
[signature] 5/25/04 1753			
	Denise Harrington / STL-SF	5/25/04	1753

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

QSD Graphic (714) 898-9702

10/16/00 Revision

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.

Sequoia Analytical

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

9 June, 2004

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

RE: ARCO #4494, Oakland, CA
Work Order: MNE0656

Enclosed are the results of analyses for samples received by the laboratory on 05/25/04 16:51. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #4494, Oakland, CA	MNE0656
1333 Broadway, Suite 800	Project Number: INTRIM-50443	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	06/09/04 18:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MNE0656-01	Water	05/25/04 13:55	05/25/04 16:51
MW-7	MNE0656-02	Water	05/25/04 13:35	05/25/04 16:51
TB-4494-05252004	MNE0656-03	Water	05/25/04 14:00	05/25/04 16:51

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

These samples were received with no custody seals.

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #4494, Oakland, CA	MNE0656
1333 Broadway, Suite 800	Project Number: INTRIM-50443	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	06/09/04 18:22

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MNE0656-01) Water Sampled: 05/25/04 13:55 Received: 05/25/04 16:51									
Ethanol	ND	500	ug/l	5	4F07003	06/07/04	06/07/04	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**120**	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 (C4-C12)	ND	250	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*120 %*		*78-129*		"	"	"	
MW-7 (MNE0656-02) Water Sampled: 05/25/04 13:35 Received: 05/25/04 16:51									
Ethanol	ND	100	ug/l	1	4F07003	06/07/04	06/07/04	EPA 8260B	
tert-Butyl alcohol	**43**	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**4.1**	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 (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*123 %*		*78-129*		"	"	"	

Sequoia Analytical

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FAX (408) 782-6308
www.sequoialabs.com

URS Corporation [Arco]	Project: ARCO #4494, Oakland, CA	MNE0656
1333 Broadway, Suite 800	Project Number: INTRIM-50443	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	06/09/04 18:22

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 4F07003 - EPA 5030B P/T										
Blank (4F07003-BLK1)				Prepared & Analyzed: 06/07/04						
Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	5.0	"							
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 (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*5.84*		"	*5.00*		*117*	*78-129*			
Laboratory Control Sample (4F07003-BS1)				Prepared & Analyzed: 06/07/04						
Ethanol	249	100	ug/l	200		124	31-186			
tert-Butyl alcohol	47.1	5.0	"	50.0		94.2	0-206			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	63-137			
Di-isopropyl ether	10.0	0.50	"	10.0		100	76-130			
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	61-141			
tert-Amyl methyl ether	9.06	0.50	"	10.0		90.6	56-140			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-136			
1,2-Dibromoethane (EDB)	9.37	0.50	"	10.0		93.7	77-132			
Benzene	9.48	0.50	"	10.0		94.8	78-124			
Toluene	8.53	0.50	"	10.0		85.3	78-129			
Ethylbenzene	9.33	0.50	"	10.0		93.3	84-117			
Xylenes (total)	27.5	0.50	"	30.0		91.7	83-125			
Surrogate: 1,2-Dichloroethane-d4	*5.57*		"	*5.00*		*111*	*78-129*			

Sequoia Analytical

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

URS Corporation [Arco]	Project: ARCO #4494, Oakland, CA	MNE0656
1333 Broadway, Suite 800	Project Number: INTRIM-50443	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	06/09/04 18:22

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 4F07003 - EPA 5030B P/T										
Laboratory Control Sample (4F07003-BS2)				Prepared & Analyzed: 06/07/04						
Methyl tert-butyl ether	9.06	0.50	ug/l	9.92		91.3	63-137			
Benzene	5.04	0.50	"	6.40		78.8	78-124			
Toluene	30.4	0.50	"	29.7		102	78-129			
Ethylbenzene	7.84	0.50	"	6.96		113	84-117			
Xylenes (total)	36.5	0.50	"	33.7		108	83-125			
Gasoline Range Organics (C4-C12)	426	50	"	440		96.8	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.38*		"	*5.00*		*108*	*78-129*			
Laboratory Control Sample Dup (4F07003-BSD1)				Prepared & Analyzed: 06/07/04						
Ethanol	226	100	ug/l	200		113	31-186	9.68	37	
tert-Butyl alcohol	48.8	5.0	"	50.0		97.6	0-206	3.55	22	
Methyl tert-butyl ether	10.6	0.50	"	10.0		106	63-137	4.83	13	
Di-isopropyl ether	10.5	0.50	"	10.0		105	76-130	4.88	9	
Ethyl tert-butyl ether	11.4	0.50	"	10.0		114	61-141	8.22	9	
tert-Amyl methyl ether	9.44	0.50	"	10.0		94.4	56-140	4.11	12	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	5.71	13	
1,2-Dibromoethane (EDB)	9.77	0.50	"	10.0		97.7	77-132	4.18	9	
Benzene	9.86	0.50	"	10.0		98.6	78-124	3.93	12	
Toluene	9.32	0.50	"	10.0		93.2	78-129	8.85	10	
Ethylbenzene	9.54	0.50	"	10.0		95.4	84-117	2.23	10	
Xylenes (total)	28.5	0.50	"	30.0		95.0	83-125	3.57	11	
Surrogate: 1,2-Dichloroethane-d4	*5.67*		"	*5.00*		*113*	*78-129*			
Matrix Spike (4F07003-MS1)	**Source: MNE0696-01**			Prepared: 06/07/04		Analyzed: 06/08/04				
Methyl tert-butyl ether	3820	50	ug/l	992	2700	113	63-137			
Benzene	563	50	"	640	8.0	86.7	78-124			
Toluene	3170	50	"	2970	13	106	78-129			
Ethylbenzene	759	50	"	696	ND	109	84-117			
Xylenes (total)	3740	50	"	3370	ND	111	83-125			
Gasoline Range Organics (C4-C12)	46400	5000	"	44000	ND	105	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.84*		"	*5.00*		*117*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #4494, Oakland, CA	MNE0656
1333 Broadway, Suite 800	Project Number: INTRIM-50443	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	06/09/04 18:22

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 4F07003 - EPA 5030B P/T										
Matrix Spike Dup (4F07003-MSD1)	**Source: MNE0696-01**			Prepared: 06/07/04 Analyzed: 06/08/04						
Methyl tert-butyl ether	3970	50	ug/l	992	2700	128	63-137	3.85	13	
Benzene	586	50	"	640	8.0	90.3	78-124	4.00	12	
Toluene	3350	50	"	2970	13	112	78-129	5.52	10	
Ethylbenzene	765	50	"	696	ND	110	84-117	0.787	10	
Xylenes (total)	3670	50	"	3370	ND	109	83-125	1.89	11	
Gasoline Range Organics (C4-C12)	50200	5000	"	44000	ND	114	70-124	7.87	20	
Surrogate: 1,2-Dichloroethane-d4	*5.94*		"	*5.00*		*119*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #4494, Oakland, CA	MNE0656
1333 Broadway, Suite 800	Project Number: INTRIM-50443	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	06/09/04 18:22

Notes and Definitions

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

MNE0656

Page 1 of 1

Chain of Custody Record

Project Name 4494 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Date: 5-25-04 Requested Due Date (mm/dd/yy) 14 day TAT

On-site Time:	1150 Temp: 62°
Off-site Time:	Temp: 70°
Sky Conditions:	Partly Cloudy
Meteorological Events:	None
Wind Speed:	NA Direction: NA

Send To:		BP/GEM Facility No.:	ARCO 4494
Lab Name:	SEQUOIA	BP/GEM Facility Address:	566 HEGENBERGER, OAKLAND, CA
Lab Address:	885 Jarvis Dr.	Site ID No.	ARCO 4494
	Morgan Hill, CA 95037	Site Lat/Long:	
		California Global ID #:	T0600100104
Lab PM	Lisa Race	BP/GEM PM Contact:	PAUL SUPPLE
Tele/Fax:	408-776-9600 / 408-782-6308	Address:	P.O. Box 6549
Report Type & QC Level:	1 Send EDF Reports		Moraga, CA 94570
BP/GEM Account No.:		Tele/Fax:	925-299-8891/925-299-8872

Consultant/Contractor:	URS
Address:	1333 Broadway, Suite 800
	Oakland, CA 94612
e-mail EDD:	donna_cosper@URSCorp.com
Consultant/Contractor Project No.:	35-00004494.01 00427
Consultant Tele/Fax:	510-893-3600/510-874-3268
Consultant/Contractor PM:	Scott Robinson
Invoice to:	Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Work Release No:	INTRIM -50443

Lab Bottle Order No:

Item No.	Sample Description	Time	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Sediments	Matrix: Air	Laboratory No.	No. of containers	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Requested Analysis: GRO / BTEX 8015/8021/8260	Requested Analysis: DRO w/SGC (8015)	Requested Analysis: MTBE (8021)	Requested Analysis: MTBE (8260)	Requested Analysis: MTBE, TAME, ETBE DIPE, TBA (8260)	Requested Analysis: 1,2-DCA & EDB (8260)	Requested Analysis: Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-1	1355		X			01	3				X	X				X	X	X	
2	MW-7	1335		X			02	3				X	X				X	X	X	
3	TB-4494-052504	1400		X			03	2				X								on Hold
4																				
5																				
6																				
7																				
8																				
9																				
10																				

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Matthew Pyeh	Matthew Pyeh / Blaine Tech	5/25/04	1535	Maryanne Steele / SEQUOIA	5/25/04	1535
Sampler's Company: Blaine Tech	Maryanne Steele	5/25/04	1651		5/25/04	16:51
Shipment Date:						
Shipment Method:						
Airbill/Tracking No:						

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

Custody Seal Intact? Yes X No ___ Temperature Blank Yes X No ___ Cooler Temperature on Receipt ___ °F/C Trip Blank Yes X No ___

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

BP COC Rev. 1 2/5/02

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
REC. BY (PRINT) Andrew Taffe
WORKORDER: MNE0656

DATE REC'D AT LAB: 5/25/04
TIME REC'D AT LAB: 16:51
DATE LOGGED IN: 5-26-04

DRINKING WATER for regulatory purposes: YES / NO (circled)
WASTE WATER for regulatory purposes: YES / NO (circled)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent (circled)	01		MW-1	3 VOA	HCL	Liquid	5/25/04	4092090 = Lot #
	Intact / Broken*	02		MW-7	↓	↓	↓	↓	4092090 = Lot #
2. Chain-of-Custody	Present (circled) / Absent*	03		TB-4494-05252004	2 VOA	↓	↓	↓	4128070 = Lot #
3. Traffic Reports or Packing List:	Present / Absent (circled)								
4. Airbill:	Airbill / Sticker Present / Absent (circled)								
5. Airbill #:	—								
6. Sample Labels:	Present (circled) / Absent								
7. Sample IDs:	Listed (circled) / Not Listed on Chain-of-Custody								
8. Sample Condition:	Intact (circled) / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	Yes (circled) / No*								
10. Sample received within hold time:	Yes (circled) / No*								
11. Adequate sample volume received?	Yes (circled) / No*								
12. Proper Preservatives used:	Yes (circled) / No*								
13. Temp Rec. at Lab: Is temp 4 +/-2°C?	4°C Yes (circled) / No**								

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

ACT 5/25/04 ACT 5/25/04

4.xls
(11/10/03)
Revision 3 (03/18/03)

*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 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-1	06/06/90	105.31	6.65	6.65	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
	12/18/90		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

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	06/27/91		9.20	9.2	Sheen	96.58
(cont.)	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	106.57	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		8.89	8.89	0.00	96.62
	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	106.29	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

Table 2 (continued)
Liquid Surface Elevation Data

ARCO Service Station 4494
568 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	08/12/94		8.78	8.78	0.00	97.51
(cont.)	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

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)
	05/24/95		6.30	6.30	0.00	98.89
MW-5	08/23/95		6.90	6.90	0.00	98.29
(cont.)	11/17/95		7.02	7.02	0.00	98.17
	08/06/92	105.07	7.01	7.01	0.00	98.06
MW-6	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		6.09	6.09	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	97.24
	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
	08/16/93	NM	———	Well Dry	———	
RW-1	11/17/93		———	Well Dry	———	
	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

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

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	0.63	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
	08/06/92	<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-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						

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	46	180	N/A	N/A

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

Table 4
Groundwater Analytical Data
Total Methl 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

06/10/04

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:	MNE0656
Global ID:	T0600100104
Lab Report Number:	MNE06560609200418 22

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MNE06560609200 41822	MW-1	MNE065601	W	CS	8260FA	SW5030B	05/25/04	06/07/04	06/07/04	4F07003	1
MNE06560609200 41822	MW-7	MNE065602	W	CS	8260FA	SW5030B	05/25/04	06/07/04	06/07/04	4F07003	1
		MNE069601	W	NC	8260FA	SW5030B	/ /	06/07/04	06/08/04	4F07003	1
		4F07003BSD1	WQ	BD1	8260FA	SW5030B	/ /	06/07/04	06/07/04	4F07003	1
		4F07003BS1	WQ	BS1	8260FA	SW5030B	/ /	06/07/04	06/07/04	4F07003	1
		4F07003BS2	WQ	BS2	8260FA	SW5030B	/ /	06/07/04	06/07/04	4F07003	1
		4F07003BLK1	WQ	LB1	8260FA	SW5030B	/ /	06/07/04	06/07/04	4F07003	1
		4F07003MS1	W	MS1	8260FA	SW5030B	/ /	06/07/04	06/08/04	4F07003	1
		4F07003MSD1	W	SD1	8260FA	SW5030B	/ /	06/07/04	06/08/04	4F07003	1

EDFSAMP: Error Summary Log

06/10/04

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

EDFTEST: Error Summary Log

06/10/04

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

EDFRES: Error Summary Log

06/10/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4F07003MS1	MS1	W	8260FA	PR	06/08/04	1	BZ
Warning: extra parameter	4F07003MS1	MS1	W	8260FA	PR	06/08/04	1	BZME
Warning: extra parameter	4F07003MS1	MS1	W	8260FA	PR	06/08/04	1	DCA12D4
Warning: extra parameter	4F07003MS1	MS1	W	8260FA	PR	06/08/04	1	EBZ
Warning: extra parameter	4F07003MS1	MS1	W	8260FA	PR	06/08/04	1	GROC4C12
Warning: extra parameter	4F07003MS1	MS1	W	8260FA	PR	06/08/04	1	XYLENES
Warning: extra parameter	4F07003MSD1	SD1	W	8260FA	PR	06/08/04	1	BZ
Warning: extra parameter	4F07003MSD1	SD1	W	8260FA	PR	06/08/04	1	BZME
Warning: extra parameter	4F07003MSD1	SD1	W	8260FA	PR	06/08/04	1	DCA12D4
Warning: extra parameter	4F07003MSD1	SD1	W	8260FA	PR	06/08/04	1	EBZ
Warning: extra parameter	4F07003MSD1	SD1	W	8260FA	PR	06/08/04	1	GROC4C12
Warning: extra parameter	4F07003MSD1	SD1	W	8260FA	PR	06/08/04	1	XYLENES
Warning: extra parameter	MNE065601	CS	W	8260FA	PR	06/07/04	1	BZ
Warning: extra parameter	MNE065601	CS	W	8260FA	PR	06/07/04	1	BZME
Warning: extra parameter	MNE065601	CS	W	8260FA	PR	06/07/04	1	DCA12D4
Warning: extra parameter	MNE065601	CS	W	8260FA	PR	06/07/04	1	EBZ
Warning: extra parameter	MNE065601	CS	W	8260FA	PR	06/07/04	1	GROC4C12
Warning: extra parameter	MNE065601	CS	W	8260FA	PR	06/07/04	1	XYLENES
Warning: extra parameter	MNE065602	CS	W	8260FA	PR	06/07/04	1	BZ
Warning: extra parameter	MNE065602	CS	W	8260FA	PR	06/07/04	1	BZME
Warning: extra parameter	MNE065602	CS	W	8260FA	PR	06/07/04	1	DCA12D4
Warning: extra parameter	MNE065602	CS	W	8260FA	PR	06/07/04	1	EBZ
Warning: extra parameter	MNE065602	CS	W	8260FA	PR	06/07/04	1	GROC4C12
Warning: extra parameter	MNE065602	CS	W	8260FA	PR	06/07/04	1	XYLENES
Warning: extra parameter	MNE069601	NC	W	8260FA	PR	06/08/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNE069601	NC	W	8260FA	PR	06/08/04	1	BZME
Warning: extra parameter	MNE069601	NC	W	8260FA	PR	06/08/04	1	DCA12D4
Warning: extra parameter	MNE069601	NC	W	8260FA	PR	06/08/04	1	EBZ
Warning: extra parameter	MNE069601	NC	W	8260FA	PR	06/08/04	1	GROC4C12
Warning: extra parameter	MNE069601	NC	W	8260FA	PR	06/08/04	1	XYLENES
Warning: extra parameter	4F07003BLK1	LB1	WQ	8260FA	PR	06/07/04	1	BZ
Warning: extra parameter	4F07003BLK1	LB1	WQ	8260FA	PR	06/07/04	1	BZME
Warning: extra parameter	4F07003BLK1	LB1	WQ	8260FA	PR	06/07/04	1	DCA12D4
Warning: extra parameter	4F07003BLK1	LB1	WQ	8260FA	PR	06/07/04	1	EBZ
Warning: extra parameter	4F07003BLK1	LB1	WQ	8260FA	PR	06/07/04	1	GROC4C12
Warning: extra parameter	4F07003BLK1	LB1	WQ	8260FA	PR	06/07/04	1	XYLENES
Warning: extra parameter	4F07003BS1	BS1	WQ	8260FA	PR	06/07/04	1	BZ
Warning: extra parameter	4F07003BS1	BS1	WQ	8260FA	PR	06/07/04	1	BZME
Warning: extra parameter	4F07003BS1	BS1	WQ	8260FA	PR	06/07/04	1	DCA12D4
Warning: extra parameter	4F07003BS1	BS1	WQ	8260FA	PR	06/07/04	1	EBZ
Warning: extra parameter	4F07003BS1	BS1	WQ	8260FA	PR	06/07/04	1	XYLENES
Warning: extra parameter	4F07003BS2	BS2	WQ	8260FA	PR	06/07/04	1	BZ
Warning: extra parameter	4F07003BS2	BS2	WQ	8260FA	PR	06/07/04	1	BZME
Warning: extra parameter	4F07003BS2	BS2	WQ	8260FA	PR	06/07/04	1	DCA12D4
Warning: extra parameter	4F07003BS2	BS2	WQ	8260FA	PR	06/07/04	1	EBZ
Warning: extra parameter	4F07003BS2	BS2	WQ	8260FA	PR	06/07/04	1	GROC4C12
Warning: extra parameter	4F07003BS2	BS2	WQ	8260FA	PR	06/07/04	1	XYLENES
Warning: extra parameter	4F07003BSD1	BD1	WQ	8260FA	PR	06/07/04	1	BZ
Warning: extra parameter	4F07003BSD1	BD1	WQ	8260FA	PR	06/07/04	1	BZME
Warning: extra parameter	4F07003BSD1	BD1	WQ	8260FA	PR	06/07/04	1	DCA12D4
Warning: extra parameter	4F07003BSD1	BD1	WQ	8260FA	PR	06/07/04	1	EBZ
Warning: extra parameter	4F07003BSD1	BD1	WQ	8260FA	PR	06/07/04	1	XYLENES

EDFQC: Error Summary Log

06/10/04

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

EDFCL: Error Summary Log

06/10/04

Error type	Clrevdate	Anmcode	Exmcode	Parlabel	Clcode
There are no errors in this data file	/ /				

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Your EDF file has been succcessfully uploaded!

Confirmation Number: 5678072392
Date/Time of Submittal: 6/10/2004 12:56:45 PM
Facility Global ID: T0600100104
Facility Name: ARCO # 04494
Submittal Title: 2Q04- monitoring report for 4494
Submittal Type: GW Monitoring Report

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UPLOADING A GEO_WELL FILE

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

Submittal Title:	**2Q04- geowell data for site 4494**
Submittal Date/Time:	**6/10/2004 12:54:22 PM**
Confirmation Number:	**9500030338**

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