R0393

URS

October 18, 2004

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

Re: Corrected Figure 1 for First Semi-Annual 2004 Groundwater Monitoring Report
Atlantic Richfield Company Service Station #6113
785 East Stanley Boulevard
Livermore, California
URS Project # 38486729

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting this corrected Figure 1 – Groundwater Elevation Contour and Analytical Summary Map for the *First Semi-Annual 2004 Groundwater Monitoring Report* for Atlantic Richfield Company Service Station #6113, 785 East Stanley Boulevard, Livermore, California. Please replace the previous Figure 1 with this corrected one.

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

REGISTERED GEOLOGIST
ROBERT M. HORWATH
NO. 5925
STATE OF CALIFORNIA

Sincerely,

URS CORPORATION

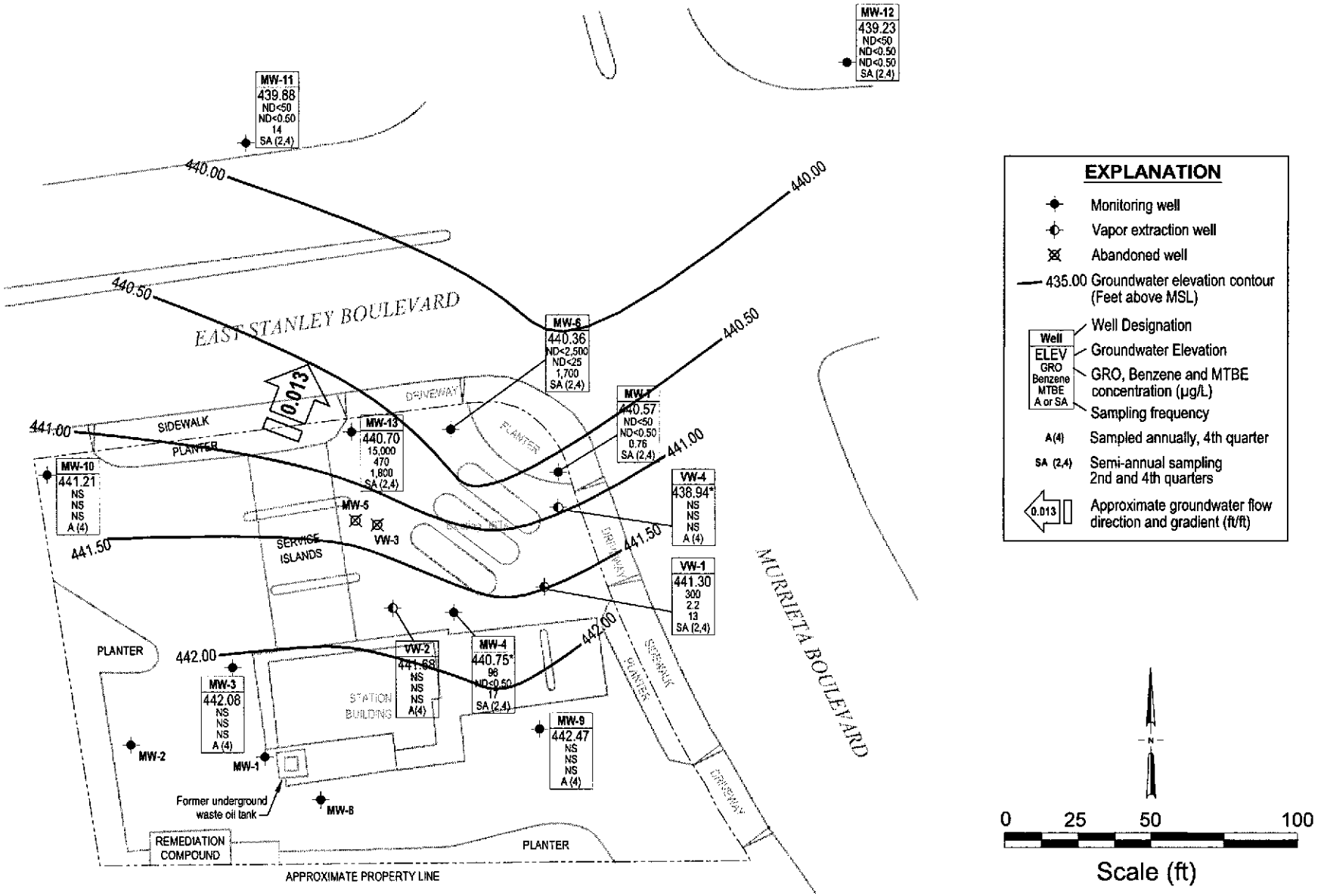
Scott Robinson
Project Manager

Robert Horwath R.G.
Senior Geologist

Enclosure: Figure 1 – Groundwater Elevation and Analytical Summary Map

cc: Mr. Paul Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA, 94566
Mr. Paul Supple, Atlantic Richfield Company (RM), (electronic copy uploaded to ENFOS)

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



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

URS	Project No. 38486729 Arco Service Station #6113 785 East Stanley Boulevard Livermore, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2004 (April 6, 2004)	FIGURE 1

URS

RO 3413

Env. Health
Received 6/14/04 RJS

May 10, 2004

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

Re: First Semi-Annual 2004 Groundwater Monitoring Report
Atlantic Richfield Company Service Station #6113
785 East Stanley Boulevard
Livermore, California
URS Project # 38486729

Dear Mr. Seery:

On behalf of Atlantic Richfield Company (RM), a BP affiliated company, URS Corporation (URS) is submitting the *First Semi-Annual 2004 Groundwater Monitoring Report* for Atlantic Richfield Company Service Station #6113, 785 East Stanley Boulevard, Livermore, California.

If you have any questions regarding this submission, please call (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: First Semi-Annual 2004 Groundwater Monitoring Report

cc: Mr. Paul Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA, 94566
Mr. Paul Supple, Atlantic Richfield Company (RM), (electronic copy uploaded to ENFOS)

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

FIRST SEMI-ANNUAL 2004 GROUNDWATER MONITORING

ATLANTIC RICHFIELD COMPANY
SERVICE STATION #6113
785 EAST STANLEY BOULEVARD
LIVERMORE, CALIFORNIA

Prepared for
Atlantic Richfield Company

May 10, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486729

Date: May 10, 2004
Quarter: 2Q 04

ATLANTIC RICHFIELD COMPANY SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility No.:	6113	Address:	785 East Stanley Boulevard, Livermore, California
RM Environmental Business Manager:			Paul Supple
Consulting Co./Contact Person:			URS Corporation / Scott Robinson
Consultant Project No.:			38486729
Primary Agency:			Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (Second – 2004):

1. Performed second quarter 2004 groundwater monitoring event on April 6, 2004.
2. Prepared and submitted first semi-annual 2004 groundwater monitoring report.
3. Performed repairs on wells: MW-6, MW-7, and MW-13 on May 6 and repairs to MW-2 through MW-4 and MW-12 on April 16, 2004.
4. Monitoring wells re-surveyed on March 8, 2004.

WORK PROPOSED FOR NEXT QUARTER (Third – 2004):

1. Prepare and submit third quarter 2004 groundwater status report.

Current Phase of Project:	Groundwater monitoring/sampling
Frequency of Groundwater Sampling:	Annually (4th Quarter): Wells MW-3, MW-9 and MW-10 Semi-Annually (2nd/4th Quarter): Wells MW-4, MW-6, MW-7, MW-11 through MW-13, VW-1
Frequency of Groundwater Monitoring:	Semi-Annual
Is Free Product (FP) Present On-Site:	None
Bulk Soil Removed to Date:	288 cubic yards of TPH impacted soil
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	16.08 (MW-9) to 18.14 (MW-12) feet
Groundwater Gradient (direction):	North-Northeast
Groundwater Gradient (magnitude):	0.013 feet per foot

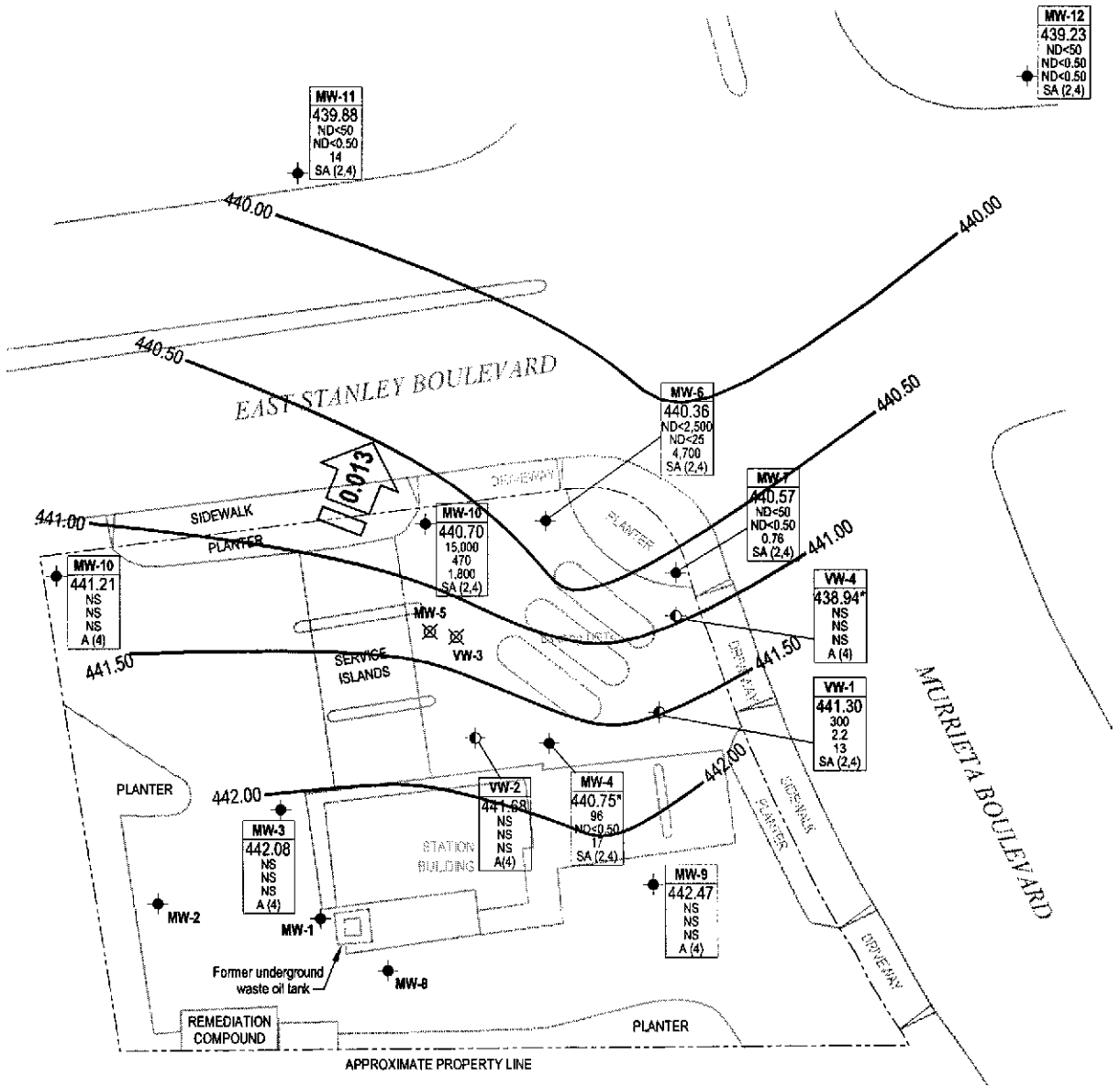
DISCUSSION:

Gasoline range Organics (GRO) were detected above the laboratory reporting limit in three of the seven wells sampled this quarter at concentrations ranging from 96 micrograms per liter (µg/L) (MW-4) to 15,000 µg/L (MW-13). Benzene was detected above the laboratory reporting limit in two wells at concentrations of 2.2 µg/L (VW-1) and 470 µg/L (MW-13). Methyl tert-butyl ether (MTBE) was detected above the laboratory reporting limit in six wells at concentrations ranging from 0.76 µg/L (MW-7) to 1,800 µg/L (MW-13). No other fuel oxygenates were detected above their respective laboratory reporting limits. Wells MW-4 and VW-4 were not included in the contour map because they have different screen intervals than the other onsite wells (see Table 1 for details).

ATTACHMENTS:

- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – April 6, 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 - EDCC and EDF/Geowell Submittal Confirmation
- Attachment D – Well Repair Data
- Attachment E – Well Survey Data

X:\x_env_waste\BP GEM\Sites\Scott Robinson\Paul Supple\6113\Monitoring\Qtr. 2, 2004\GWEC-AS_4-6.dwg, 05/14/2004 11:06:23 AM, jktingl0



EXPLANATION

- Monitoring well
- Vapor extraction well
- Abandoned well
- 435.00 Groundwater elevation contour (Feet above MSL)
- Well Designation
- Well / ELEV / GRO / Benzene / MTBE / A or SA — Groundwater Elevation; GRO, Benzene and MTBE concentration (µg/L); Sampling frequency
- A(4) — Sampled annually, 4th quarter
- SA (2,4) — Semi-annual sampling 2nd and 4th quarters
- 0.013 — Approximate groundwater flow direction and gradient (ft/ft)

N

0 25 50 100

Scale (ft)

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

URS	Project No. 38486729 Arco Service Station #6113 785 East Stanley Boulevard Livermore, California	GROUNDWATER ELEVATION CONTOUR AND ANALYTICAL SUMMARY MAP Second Quarter 2004 (April 6, 2004)	FIGURE 1

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-1	03/23/95		457.04	428.04	413.04	14.12	442.92	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95					14.45	442.59	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95					17.12	439.92	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95					16.34	440.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					13.23	443.81	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96					14.02	443.02	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96					16.13	440.91	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96					17.28	439.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97					14.91	442.13	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97					16.47	440.57	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98					14.69	442.35	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98					25.94	431.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99					17.38	439.66	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P				18.63	438.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		1.03
	06/20/00					17.09	439.95	Not sampled: well sampled annually, during the fourth quarter							3.1
	08/29/00					18.20	438.84	Not sampled: well sampled annually, during the fourth quarter							2.66
	11/29/00	P				20.30	436.74	ND<50.0	ND<0.500	ND<0.500	ND<0.500	1.36	ND<2.50		0.71
	05/02/01					22.39	434.65	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01					24.97	432.07	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P				25.09	431.95	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.78
	01/21/02					24.58	432.46	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02					24.19	432.85	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P				20.13	436.91	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.8
	05/01/03 [J]					17.98	439.06	Not sampled: well sampled annually, during the fourth quarter							
	10/03/03					NR	NR	Not sampled: well removed from scope of work.							
	04/06/04[6]		**459.41**			**NR**	**NR**	**Not sampled: well removed from scope of work.**							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-2	03/23/95		457.74	429.74	419.74	14.15	443.59	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95					14.67	443.07	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95					17.24	440.50	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95					16.40	441.34	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					13.55	444.19	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96					14.29	443.45	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96					16.19	441.55	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96					17.50	440.24	65	0.6	7.4	2.1	12	5		
	03/27/97					15.32	442.42	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97					16.62	441.12	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98					15.12	442.62	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98					26.66	431.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99					17.74	440.00	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P				18.75	438.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.82
	06/20/00					17.21	440.53	Not sampled: well sampled annually, during the fourth quarter							2.6
	08/29/00					18.25	439.49	Not sampled: well sampled annually, during the fourth quarter							2.65
	11/29/00	P				20.69	437.05	ND<50.0	ND<0.500	0.581	0.827	4.38	ND<2.50		0.88
	05/02/01					22.69	435.05	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01					25.15	432.59	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P				25.22	432.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.80
	01/21/02					24.70	433.04	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02					24.53	433.21	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P				19.45	438.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.5
	05/01/03 [3]					18.18	439.56	Not sampled: well sampled annually, during the fourth quarter							
	10/03/03					NR	NR	Not sampled: well removed from scope of work.							
	04/06/04[6]		**460.07**			**NR**	**NR**	**Not sampled: well removed from scope of work.**							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-3	03/23/95		456.97	427.97	417.97	14.13	442.84	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95					14.46	442.51	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95					17.06	439.91	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95					16.27	440.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					13.14	443.83	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96					13.95	443.02	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96					16.03	440.94	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96					17.26	439.71	ND<50	ND<0.5	0.9	ND<0.5	1.5	ND<3		
	03/27/97					14.85	442.12	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97					16.40	440.57	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98					14.66	442.31	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98					25.85	431.12	ND<1,000	ND<10	ND<10	ND<10	ND<10	1,700		
	06/04/99					17.35	439.62	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P				18.58	438.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.79
	06/20/00					17.03	439.94	Not sampled: well sampled annually, during the fourth quarter							2.8
	08/29/00					18.25	438.72	Not sampled: well sampled annually, during the fourth quarter							3.39
	11/29/00					20.27	436.70	ND<50.0	ND<0.500	ND<0.500	1.08	3.34	ND<2.50		0.67
	05/02/01					22.33	434.64	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01					25.03	431.94	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P				25.17	431.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.79
	01/21/02					24.79	432.18	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02					24.27	432.70	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P				20.20	436.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	1.2
	05/01/03 [3]					18.27	438.70	Not sampled: well sampled annually, during the fourth quarter							
	10/03/03 [4]	P				20.07	436.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	5.2
	04/06/04 [6]		**459.32**			**17.24**	**442.08**	**Not sampled: well sampled annually, during the fourth quarter**							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-4	03/23/95		456.55	437.55	429.55	15.39	441.16	210	2.1	0.6	0.8	2.1	- -		
	05/31/95					15.32	441.23	190	1.6	ND<0.5	0.7	0.9	- -		
	08/31/95					17.86	438.69	160	1.2	0.7	ND<0.5	ND<2	ND<3		
	11/28/95					17.18	439.37	150	0.7	ND<0.5	0.7	1.4	ND<3		
	02/22/96					14.80	441.75	100	ND<0.5	ND<0.5	ND<0.6	0.8	ND<3		
	05/23/96					14.43	442.12	86	ND<0.5	ND<0.5	ND<0.5	ND<0.7	ND<3		
	08/08/96					16.80	439.75	98	ND<0.5	ND<0.5	ND<0.5	1.3	ND<3		
	11/07/96					17.90	438.65	140	ND<0.5	ND<0.5	ND<0.9	1.3	ND<3		
	03/27/97					15.22	441.33	ND<50	1.1	ND<0.5	ND<0.5	1.6	ND<3		
	05/19/97					16.98	439.57	62	ND<0.5	ND<0.5	ND<0.5	0.6	ND<3		
	05/18/98					14.99	441.56	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	64		
	11/02/98					25.29	431.26	74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	96		
	06/04/99	P				17.95	438.60	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38		
	11/11/99	P				19.25	437.30	88	ND<0.5	ND<0.5	ND<0.5	ND<1	10		0.77
DUP	06/20/00					NR	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	62.3		
	06/20/00	P				17.79	438.76	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	82.4		1.3
	08/29/00	P				18.90	437.65	56.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	47.9		0.97
	11/29/00	P				20.50	436.05	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	9.88	10.4	0.59
	05/02/01	P				22.65	433.90	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	61.1	70.9	0.74
	05/02/01					NR	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	59.4	68.4	
	08/15/01					NR	NR	Not sampled: well dry							
	10/05/01					NR	NR	Not sampled: well dry							
	01/21/02					NR	NR	Not sampled: well dry							
	04/26/02	P				20.15	436.40	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	150		0.21
	10/07/02	P				20.76	435.79	96 [1]	ND<0.50	ND<0.50	0.54	ND<0.50	--	260	1.0
	05/01/03 [3]	P				19.67	436.88	120	1.3	ND<0.50	ND<0.50	ND<0.50	--	86	1.7
	10/03/03 [4]	P				20.23	436.32	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	22	1.1
	04/06/04 [6]	**P**	**458.88**			**18.13**	**440.75**	**96**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**17**	**1.6**

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-5	03/23/95		455.84	412.84	392.84	13.97	441.87	68	4.2	3.4	2.3	12	- -		
	05/31/95					NR	NR	Not sampled: well was inaccessible							
	08/31/95					NR	NR	Not sampled: well was inaccessible							
	11/28/95					16.46	439.38	960	41	24	38	210	ND<5		
	02/22/96					13.34	442.50	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/23/96					14.36	441.48	7,100	440	180	270	1,700	ND<50		
	08/08/96					16.38	439.46	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/07/96					17.26	438.58	5,600	230	86	210	1,100	ND<80		
	03/27/97					15.95	439.89	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/19/97					16.64	439.20	7,600	480	140	400	1,200	ND<40		
	05/18/98					14.75	441.09	990	46	13	45	180	4		
	11/02/98					27.83	428.01	14,000	690	140	550	2,200	100		
	06/04/99	P				17.47	438.37	8,300	690	370	90	440	1,400		
	11/11/99	P				18.80	437.04	18,000	900	190	1,100	3,200	72		0.86
	06/20/00	P				17.14	438.70	10,200	618	122	832	2,020	ND<50.0		1.6
	08/29/00	P				18.60	437.24	12,300	436	166	711	2,120	517		0.79
	11/29/00	P				20.57	435.27	26,000	491	149	1,090	3,810	671	ND<20.0	0.51
	05/02/01					NR	NR	Well Abandoned							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-6	03/23/95		454.93	406.93	386.93	13.38	441.55	ND<50	1.5	ND<0.5	ND<0.5	0.9	--		
	05/31/95					13.96	440.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	08/31/95					16.71	438.22	150	9	1.8	4	12	ND<3		
	11/28/95					15.65	439.28	ND<50	0.6	ND<0.5	ND<0.5	0.8	ND<3		
	02/22/96					12.53	442.40	ND<50	1.9	ND<0.5	0.8	2.1	ND<3		
	05/23/96					13.24	441.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96					16.65	438.28	ND<50	0.5	ND<0.5	ND<0.5	0.5	ND<3		
	11/07/96					16.65	438.28	110	5.3	1.3	3.1	6.6	ND<3		
	03/27/97					14.25	440.68	ND<50	2.3	ND<0.5	0.9	3.5	4		
	05/19/97					15.87	439.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/18/98					14.00	440.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98					24.95	429.98	ND<50	1.2	ND<0.5	ND<0.5	ND<0.5	3		
	06/04/99	P				16.68	438.25	310	41	3.8	11	19	33		
	11/11/99	P				16.12	438.81	ND<50	0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.92
	06/20/00	P				16.63	438.30	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	17.3		1.9
DUP	08/29/00		NR			NR	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		
	08/29/00	P				17.91	437.02	ND<50.0	ND<0.500	0.551	ND<0.500	ND<0.500	ND<2.50		1.67
	11/29/00	P				20.30	434.63	ND<50.0	ND<0.500	ND<0.500	ND<0.500	1.03	ND<2.50		0.79
	05/02/01	P				22.20	432.73	3,230	1,300	33.6	89.4	136	1,810	2,310	0.95
	08/15/01	P				27.95	426.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	25	0.63
	10/05/01	P				28.05	426.88	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.85
	01/21/02	P				26.81	428.12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0		0.91
	04/26/02	P				26.27	428.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17		0.75
	10/07/02	P				20.05	434.88	60 [1]	13	1.7	1.7	3.5	--	8.0	2.8
	05/01/03 [3]	P				17.62	437.31	ND<50	5.4	ND<0.50	0.63	1.3	--	12	1.6
	10/03/03[4]	P				19.62	435.31	80	2.6	ND<2.5	ND<2.5	ND<2.5	--	120	5.1
	04/06/04[6]	**P**	**457.24**			**16.88**	**440.36**	**ND<2,500**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	--	**1,700**	**4.1**

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-7	03/23/95		454.92	406.92	386.92	13.29	441.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	05/31/95					13.72	441.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--		
	08/31/95					16.53	438.39	ND<50	ND<0.5	ND<0.5	ND<0.5	1.2	ND<3		
	11/28/95					15.50	439.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					12.30	442.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/23/96					13.02	441.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96					NR	NR	Not sampled: unable to locate well							
	11/07/96					16.50	438.42	ND<50	ND<0.5	ND<0.5	ND<0.5	0.8	ND<3		
	03/27/97					14.22	440.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/19/97					15.74	439.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/18/98					13.82	441.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98					24.80	430.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4		
	06/04/99	P				16.55	438.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/11/99	P				18.02	436.90	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		1.03
	06/20/00	P				16.50	438.42	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		1.3
	08/29/00	P				17.80	437.12	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		1.67
	11/29/00	P				19.61	435.31	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.51
	05/02/01	P				22.05	432.87	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	2.66	0.9
	08/15/01	P				27.55	427.37	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.84
	10/05/01	P				27.59	427.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.62
	01/21/02	P				26.50	428.42	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	21	0.65
	04/26/02	P				26.22	428.70	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18		0.61
	10/07/02	P				20.04	434.88	ND<50	1.2	ND<0.50	ND<0.50	0.77	--	41	4.8
	05/01/03 [3]	P				17.47	437.45	ND<50	ND<0.50	ND<0.50	ND<0.50	0.50	--	43	2.7
	10/03/03[4]	P				19.55	435.37	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	49	5.2
	04/06/04[6]	**P**	**457.17**			**16.60**	**440.57**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**0.75**	**--**	**0.76**	**5.7**

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
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Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-8	03/23/95		456.97	409.97	389.97	11.55	445.42	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95					12.37	444.60	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95					15.68	441.29	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95					14.15	442.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					10.97	446.00	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96					11.90	445.07	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96					13.85	443.12	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96					15.08	441.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97					12.96	444.01	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97					14.35	442.62	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98					12.97	444.00	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98					26.01	430.96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99					15.53	441.44	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P				16.67	440.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		1.01
	06/20/00					15.29	441.68	Not sampled: well sampled annually, during the fourth quarter							2.4
	08/29/00					16.59	440.38	Not sampled: well sampled annually, during the fourth quarter							3.37
	11/29/00	P				19.80	437.17	ND<50.0	ND<0.500	ND<0.500	ND<0.500	0.772	ND<2.50		1.35
	05/02/01					22.12	434.85	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01					27.63	429.34	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P				27.65	429.32	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		1.07
	01/21/02					26.73	430.24	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02					26.39	430.58	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P				18.43	438.54	ND<50	ND<0.50	ND<0.50	ND<0.50	0.86	--	ND<0.50	4.2
	05/01/03 [3]					16.47	440.50	Not sampled: well sampled annually, during the fourth quarter							
	10/03/03					NR	NR	Not sampled: well removed from scope of work.							
	04/06/04[6]					**NR**	**NR**	**Not sampled: well removed from scope of work.**							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-9	03/23/95		456.18	408.18	388.18	13.18	443.00	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95					12.66	443.52	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95					14.40	441.78	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95					14.26	441.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					12.05	444.13	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96					12.07	444.11	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96					14.12	442.06	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96					15.42	440.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97					13.01	443.17	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97					14.60	441.58	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98					12.60	443.58	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98					25.08	431.10	Not sampled							
	06/04/99	P				15.87	440.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/11/99	P				17.02	439.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.96
	06/20/00					15.54	440.64	Not sampled: well sampled annually, during the fourth quarter							2.1
	08/29/00					16.81	439.37	Not sampled: well sampled annually, during the fourth quarter							2.59
	11/29/00	P				18.81	437.37	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.81
	05/02/01					22.09	434.09	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01					27.59	428.59	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P				27.63	428.55	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.93
DUP	10/05/01		NR			NR	NR	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		
	01/21/02					26.77	429.41	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02					26.41	429.77	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P				18.85	437.33	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	2.6
	05/01/03 [3]					17.84	438.34	Not sampled: well sampled annually, during the fourth quarter							
	10/03/03[4]	P				18.69	437.49	ND<50	1.1	0.57	ND<0.50	ND<0.50	--	ND<0.50	4.9
	04/06/04[6]		**458.55**			**16.08**	**442.47**	**Not sampled: well sampled annually, during the fourth quarter**							

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Groundwater Elevation and Analytical Data

ARCO Service Station 6113
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Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-10	03/23/95		456.85			14.86	441.99	Not sampled: well sampled annually, during the fourth quarter							
	05/31/95					15.63	441.22	Not sampled: well sampled annually, during the fourth quarter							
	08/31/95					14.40	442.45	Not sampled: well sampled annually, during the fourth quarter							
	11/28/95					17.24	439.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					14.30	442.55	Not sampled: well sampled annually, during the fourth quarter							
	05/23/96					14.93	441.92	Not sampled: well sampled annually, during the fourth quarter							
	08/08/96					17.20	439.65	Not sampled: well sampled annually, during the fourth quarter							
	11/07/96					18.25	438.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97					15.77	441.08	Not sampled: well sampled annually, during the fourth quarter							
	05/19/97					17.38	439.47	Not sampled: well sampled annually, during the fourth quarter							
	05/18/98					15.47	441.38	Not sampled: well sampled annually, during the fourth quarter							
	11/02/98					26.94	429.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99					17.19	439.66	Not sampled: well sampled annually, during the fourth quarter							
	11/11/99	P				19.35	437.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		0.68
	06/20/00					17.92	438.93	Not sampled: well sampled annually, during the fourth quarter							2.9
	08/29/00					19.15	437.70	Not sampled: well sampled annually, during the fourth quarter							1.54
	11/29/00	P				21.30	435.55	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.95
	05/02/01					29.95	426.90	Not sampled: well sampled annually, during the fourth quarter							
	08/15/01					30.74	426.11	Not sampled: well sampled annually, during the fourth quarter							
	10/05/01	P				30.95	425.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.89
	01/21/02					28.97	427.88	Not sampled: well sampled annually, during the fourth quarter							
	04/26/02					28.50	428.35	Not sampled: well sampled annually, during the fourth quarter							
	10/07/02	P				21.15	435.70	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	3.0
	05/01/03 [3]					18.90	437.95	Not sampled: well sampled annually, during the fourth quarter							
	10/03/03[4]	P				20.64	436.21	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	2.4
	04/06/04[6]		**459.20**			**17.99**	**441.21**	**Not sampled: well sampled annually, during the fourth quarter**							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
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Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-11	03/23/95		455.07			17.34	437.73	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/31/95					16.68	438.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	- -		
	08/31/95					20.20	434.87	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/28/95					17.80	437.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					15.97	439.10	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/23/96					15.50	439.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96					17.77	437.30	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/07/96					17.45	437.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97					15.77	439.30	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/19/97					16.80	438.27	ND<50	1.1	4.5	ND<0.5	2.2	ND<3		
	05/18/98					15.38	439.69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98					24.15	430.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	06/04/99	P				18.39	436.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/11/99	P				18.62	436.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3		1.01
	06/20/00	P				17.82	437.25	ND<50.0	0.631	ND<0.500	ND<0.500	ND<0.500	ND<2.50		4.1
	08/29/00					19.50	435.57	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/29/00	P				20.60	434.47	ND<50.0	ND<0.500	ND<0.500	ND<0.500	1.63	ND<2.50		0.97
	05/02/01	P				22.42	432.65	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		1.04
	08/15/01					27.41	427.66	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	10/05/01	P				27.59	427.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		1.05
	01/21/02					26.75	428.32	Not sampled: well sampled semi annually, during the second quarter							
	04/26/02	P				26.50	428.57	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		0.47
	10/07/02	P				20.79	434.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	1.4
	05/01/03 [3]	P				20.55	434.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.5	3.2
	10/03/03[4]	P				20.58	434.49	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.1	3.0
	04/06/04[6]	**P**	**457.40**			**17.52**	**439.88**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**14**	**5.1**

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-12	03/23/95		455.04			15.54	439.50	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/31/95					15.66	439.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	- -		
	08/31/95					18.23	436.81	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/28/95					17.53	437.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	02/22/96					14.45	440.59	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/23/96					14.88	440.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	08/08/96					17.30	437.74	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	11/07/96					18.30	436.74	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	03/27/97					15.69	439.35	Not sampled: well sampled semi-annually, during the second and fourth quarters							
	05/19/97					17.41	437.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	05/18/98					15.21	439.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3		
	11/02/98					NR	NR	Not sampled: unable to locate well							
	06/04/99					NR	NR	Not sampled: unable to locate well							
	11/11/99					NR	NR	Not sampled: unable to locate well							
	06/20/00					NR	NR	Not sampled: unable to locate well							
	08/29/00					NR	NR	Not sampled: unable to locate well							
	11/29/00					NR	NR	Not sampled: unable to locate well							
	05/02/01					NR	NR	Not sampled: unable to locate well							
	08/15/01					NR	NR	Not sampled: unable to locate well							
	10/05/01					NR	NR	Not sampled: unable to locate well							
	01/21/02					NR	NR	Not sampled: unable to locate well							
	04/26/02					NR	NR	Not sampled: unable to locate well							
	10/07/02					NR	NR	Not sampled: unable to locate well							
	05/01/03 [3]					NR	NR	Not sampled: unable to locate well							
	10/03/03					NR	NR	Not sampled: unable to locate well							
	04/06/04[6]	**P**	**457.37**			**18.14**	**439.23**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**–**	**ND<0.50**	**2.4**

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
MW-13	01/21/02	P	NR			24.61	NR	15,000	160	68	1,700	3,200	4,900	5,200	0.71
	04/26/02	P				24.2	NR	17,000	98	ND<100	1,700	3,400	1,600		0.6
	10/07/02	P				20.12	NR	14,000 [2]	510	ND<50	2,200	2,300	--	2,800	0.8
	05/01/03 [3]	P				17.82	NR	21,000	230	ND<50	1,900	2,300	--	1,600	1.9
	10/03/03[4]	P				19.91	NR	19,000	570	55	1,900	2,300	--	2,400	0.8
	04/06/04[6]	**P**	**457.91**			**17.14**	**440.70**	**15,000**	**470**	**35**	**1,600**	**1,300**	**--**	**1,800**	**2.0**
VW-1	08/29/00	P	NR	25 ft. bgs	45 ft bgs	17.40	NR	2,360	27.6	11.6	26.3	33.2	110		4.47
	11/29/00	P				18.75	NR	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50		0.46
	05/02/01					21.59	NR	Well not sampled							
	08/15/01	P				24.62	NR	1,200	6.3	4.3	1.7	1.3	20	17	
DUP	08/15/01					NR	NR	1,200	6.2	4.1	1.8	1.1	20	17	
	10/05/01	P				24.75	NR	1,500	140	55	28	82	610	660	0.71
	01/21/02	P				24.59	NR	6,700	810	350	270	1,100	2,600	3,400	0.69
DUP	01/21/02					NR	NR	8,000	770	320	96	1,100	2,500	3,200	
	04/26/02	P				24.27	NR	370	26	2.1	6.6	1.7	48		0.50
DUP	04/26/02					NR	NR	350	24	1.6	5.9	1.6	45		
	10/07/02	P				19.20	NR	410 [2]	25	2.2	8.0	4.3	--	88	1.7
	05/01/03 [3]	P				16.60	NR	240	6.4	ND<0.50	3.3	1.3	--	36	1.7
	10/03/03[4]	P				18.82	NR	180	1.5	ND<0.50	0.69	ND<0.50	--	12	1.1
	04/06/04[6]	**P**	**457.08**			**15.78**	**441.30**	**300**	**2.2**	**ND<0.50**	**3.0**	**1.3**	**--**	**13**	**2.4**
VW-2	08/29/00		NR	28 ft bgs	49.5 ft bgs	NR	NR	Well inaccessible							
	11/29/00					NR	NR	Well inaccessible							
	05/02/01					NR	NR	Well not sampled							
	05/02/01					NR	NR	Well not sampled							
	10/05/01					NR	NR	Well inaccessible							
	01/21/02					NR	NR	Well inaccessible							
	04/26/02					NR	NR	Not sampled: unable to locate well							
	10/07/02					NR	NR	Not sampled: well inaccessible							
	05/01/03 [3]					NR	NR	Not sampled: well inaccessible							
	10/03/03					NR	NR	Not sampled: well inaccessible							
	04/06/04[6]		**458.64**			**16.96**	**441.68**	**Not sampled**							

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station 6113
785 East Stanley Boulevard
Livermore, California

Well Number	Date Sampled		Top of Casing Elevation (ft-MSL)	Top of Screen (ft., MSL)	Bottom of Screen (ft., MSL)	Depth to Water (feet)	Groundwater Elevation (ft-MSL)	GRO/TPH Gasoline (µg/L) [5,7]	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B (µg/L)	MTBE 8260 (µg/L)	Dissolved Oxygen (mg/L)
VW-3	08/29/00	P	NR	15.5 ft bgs	24 ft bgs	17.93	NR	25,400	3,540	10,600	1,280	43,000	44,700		
	11/29/00	P				19.75	NR	54,200	9,450	1,870	2,350	9,400	12,300	15,100	0.47
	05/02/01					NR	NR	Well abandoned							
VW-4	08/29/00		NR	17 ft bgs	30 ft bgs	NR	NR	Well inaccessible							
	11/29/00	P				19.45	NR	37,500	4,510	206	2,100	9,030	6,770	7,880	0.42
DUP	11/29/00					NR	NR	36,100	3,700	206	1,850	7,890	6,430	8,460	
	05/02/01					21.66	NR	Well not sampled							
	08/15/01					NR	NR	Well not sampled							
	10/05/01					NR	NR	Not sampled: well dry							
	01/21/02					NR	NR	Not sampled: well dry							
	04/26/02					NR	NR	Not sampled: well dry							
	10/07/02					19.25	NR	Well not sampled							
	05/01/03 [3]					17.29	NR	Well not sampled							
	10/03/03[4]	P	SHEEN			19.10	NR	48,000	3,300	1,700	3,600	21,000	--	1,600	0.4
	04/06/04[6]		**456.99**			**18.05**	**438.94**	**Well not sampled**							

Notes:

-- = Not analyzed, not applicable
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B (Before 5/01/03). (EPA method 8020 before 11/11/99)
DUP = duplicate
ft-MSL = elevation in feet, relative to mean sea level
GRO = Gasoline Range Organics (C4-C12)
mg/L = milligrams per liter
MTBE = Methyl tertiary butyl ether by EPA method 8021B. (EPA method 8020 before 11/11/99). Any MTBE Detection by 8021B was confirmed by EPA method 8260 beginning Third Quarter 2000 (08-29-00 Results)
ND< = Not detected at or above the specified laboratory reporting limit.
NR = not reported; data not available or not measured
TPH = Total petroleum hydrocarbons by modified EPA method 8015 (Before 05/01/03)
µg/L = micrograms per liter
1 = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
2 = Chromatogram Pattern: C6-C10
3 = TPH-g, BTEX and MTBE analyzed using EPA Method 8260B beginning second quarter 2003 (05/01/03)
4 = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose.
5 = 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.
6 = Wells were resurveyed to NAVD '88 datum by URS Corporation on March 8, 2004.
7 = Beginning in the Second Quarter 2004, the carbon range for GRO has been changed from C6-C10 to C4-C12.

The data within this table collected prior to October 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 6113
785 East Stanley Boulevard
Livermore, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03/23/95	Northwest	0.035
05/31/95	North-Northwest	0.028
08/31/95	North-Northwest	0.03
11/28/95	North-Northwest	0.025
02/22/96	North-Northwest	0.031
05/23/96	North-Northwest	0.025
08/08/96	North	0.019
11/07/96	North-Northeast	0.019
03/27/97	North-Northwest	0.021
05/19/97	North	0.019
05/18/98	North	0.02
11/02/98	North	0.02
06/04/99	North	0.02
11/11/99	North	0.03
06/20/00	North-Northeast	0.014
08/29/00	North-Northeast	0.013
11/29/00	North-Northwest	0.026
05/02/01	Northeast	0.026
08/15/01	Northeast	0.047
10/05/01	Northeast	0.031
01/21/02	Northeast	0.033
04/26/02	Northeast	0.031
10/07/02	Northeast	0.017
05/01/03	North-Northeast	0.011
10/03/03	North-Northeast	0.016
04/06/04	**North-Northeast**	**0.013**

Note:
The data within this table collected prior to October 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 6113
785 East Stanley Boulevard
Livermore, 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	10/07/02	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	10/07/02	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	10/07/02	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<100	ND<20	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50
MW-4	10/07/02	ND<400	ND<200	260	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	05/01/03	ND<100	25	86	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<100	ND<20	22	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50
	04/06/04	**ND<100**	**ND<20**	**17**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-6	10/07/02	ND<40	ND<20	8.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/01/03	ND<100	ND<20	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<500	ND<100	120	ND<5.0	ND<5.0	ND<5.0	ND<2.5	ND<2.5
	04/06/04	**ND<5,000**	**ND<1,000**	**1700**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**ND<25**
MW-7	10/07/02	ND<40	ND<20	41	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/01/03	ND<100	ND<20	43	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<200	ND<40	49	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0
	04/06/04	**ND<100**	**ND<20**	**0.76**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-8	10/07/02	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-9	10/07/02	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<100	ND<20	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50
MW-10	10/07/02	ND<40	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<100	ND<20	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50
MW-11	10/07/02	ND<40	ND<20	1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	05/01/03	ND<100	ND<20	1.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<100	ND<20	3.1	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50
	04/06/04	**ND<100**	**ND<20**	**14**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-12	**04/06/04**	**ND<100**	**ND<20**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
MW-13	10/07/02	ND<4,000	ND<2,000	2,800	ND<50	ND<50	ND<50	ND<50	ND<50
	05/01/03	ND<10,000	ND<2,000	1,600	ND<50	ND<50	ND<50	ND<50	ND<50
	10/03/03[1]	ND<10,000	ND<2,000	2,400	ND<100	ND<100	ND<100	ND<50	ND<50
	04/06/04	**ND<5,000**	**ND<1,000**	**1,800**	**ND<25**	**ND<25**	**ND<25**	**ND<25**	**ND<25**
VW-1	10/07/02	ND<80	ND<40	88	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
	05/01/03	ND<100	ND<20	36	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
	10/03/03[1]	ND<100	ND<20	12	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50
	04/06/04	**ND<100**	**ND<20**	**13**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**
VW-4	10/03/03[1]	ND<100,000	ND<20,000	1,600	ND<1,000	ND<1,000	ND<1,000	ND<500	ND<500

Note	= All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA	= tert-Butyl alcohol
MTBE	= Methyl tert-butyl ether
DIPE	= Di-isopropyl ether
ETBE	= Ethyl tert butyl ether
TAME	= tert-Amyl methyl ether
1,2-DCA	= 1,2-Dichloroethane
EDB	= 1,2-Dibromoethane
µg/L	= micrograms per liter
ND<	= Not detected at or above specified laboratory reporting limit.
1	= This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their 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 # 040406-PC1 Date 4/6/04 Client ~~Shell~~ VRS 6113

Site 785 E Stanley Blvd., Livermore

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-3	2					17.24	39.04		G.O.
MW-4	4					18.13	26.67		
MW-6	4					16.88	66.70		
MW-7	4					16.60 ~~16.08~~	67.50 ~~67.88~~		
MW-9	4					16.08	67.88		G.O.
MW-10	4					17.99	49.84		G.O.
MW-11	2					17.52	44.25		
MW-12	2					18.14	34.01		
MW-13	2					17.14	30.30		
VW-1	4					15.70	44.36		
VW-2	4					16.96	49.20		G.O
VW-4	4					18.05	24.60		G.O.

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 26.67	Depth to Water: 18.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / (X) Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / (X) 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.

5.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 16.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (US))	Gals. Removed	Observations
~~1033~~					
1102	65.7	6.9	590	5.6	clear, odor
1103	659	6.8	588	11.2	"
1105	659	6.8	587	16.8	"

Did well dewater? Yes (No) Gallons actually evacuated: 17

Sampling Time: 1112 Sampling Date: 4/6/04

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

Analyzed for: (TPH-G) ~~BTEX~~ MTBE TPH-D Other: Oxy's & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	1.6 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 66.70	Depth to Water: 16.88
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (TOC) 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 / Middleburg / (X) Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / (X) 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.

32.4 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 97.2 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1124	66.1	7.0	664	32.5	odor, clear
1132	66.5	7.0	678	65	↓
1140	66.3	7.0	673	97.5	

Did well dewater? Yes (No) Gallons actually evacuated: 97.5

Sampling Time: 1148 Sampling Date: 4/6/04

Sample I.D.: MW-6 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) ~~BTEX~~ MTBE TPH-D Other: Oxy's & Ethanol by 8260

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:	4.1 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 67.50	Depth to Water: 16.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer / Middleburg / X Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / X 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.

33 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 99 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1032	65.2	7.1	601	33	clear
1039	65.5	7.0	606	66	↓
1036	65.6	7.0	606	99	

Did well dewater? Yes (No) Gallons actually evacuated: 99

Sampling Time: 1042 Sampling Date: 4/6/04

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

Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE TPH-D Other: Oxys & Ethanol by 8260

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:	5.7 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 44.25	Depth to Water: 17.52
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / Disposable Bailer / X Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / X 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.

4.3 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 12.9 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
907	62.1	6.4	691	4.3	brown, cloudy
912	63.5	6.8	664	8.6	↓ ↓
917	63.6	6.7	666	12.9	

Did well dewater? Yes (No) Gallons actually evacuated: 13

Sampling Time: 915 Sampling Date: 4/6/04

Sample I.D.: MW-11 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's & Ethanol by 8260

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:	5.1 mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: MW-12	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.01	Depth to Water: 18.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer / (Disposable Bailer) / Middleburg / 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.

2.5 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 7.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or (uS))	Gals. Removed	Observations
945	61.9	6.9	590	2.5	brown
948	63.4	6.7	589	5	↓
952	69.0	6.4	590	7.5	↓

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Time: 958 Sampling Date: 4/6/04

Sample I.D.: MW-12 Laboratory: Pace (Sequoia) Other ___

Analyzed for: (TPH-G) ~~BTEX~~ MTBE TPH-D Other: Oxy's & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.4	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: MW-13	Well Diameter: (2) 3 4 6 8
Total Well Depth: 30.30	Depth to Water: 17.14
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 / x Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / x 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.

2.1 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 6.3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1125	66.5	6.8	1191	2.1	cloudy
1127	67.7	6.7	1163	4.2	↓
1130	67.1	6.7	1117	6.3	

Did well dewater? Yes (No) Gallons actually evacuated: 6.3

Sampling Time: 1135 Sampling Date: 4/6/04

Sample I.D.: MW-13 Laboratory: Pace Sequoia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxys & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.0	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:		mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040406-PC1	Station # 6113
Sampler: PC	Date: 4/6/04
Well I.D.: VW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 44.34	Depth to Water: 15.78
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
- Middleburg
- (X) Electric Submersible
- Extraction Pump
- Other: ____

Sampling Method:
- Bailer
- (X) 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.

18.6 (1 Case Volume (Gals.)) x 3 (Specified Volumes) = 55.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1213	64.8	7.3	543	18.6	cloudy
1218	65.4	7.2	533	37.2	↓
1224	65.6	7.2	509	55.8	

Did well dewater? Yes (No) Gallons actually evacuated: 56

Sampling Time: 1235 Sampling Date: 4/6/04

Sample I.D.: VW-1 Laboratory: Pace (Sequoia) Other ____

Analyzed for: (TPH-G) ~~BTEX~~ MTBE TPH-D Other: Oxys & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	2.4 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:

6/13
Station #

7856 Stanley Blvd, Livermore
Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

296

added equip. rinse water 8

any other adjustments

TOTAL GALS. RECOVERED 304

loaded onto BTS vehicle # 22

BTS event # 040406-PCL

time 1200

date 4/6/04

signature

* *

REC'D AT BTS

time

date 4/6/04

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

Sequoia
Analytical

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Morgan Hill, CA 95037
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20 April, 2004

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

RE: ARCO #6113, Livermore, CA
Work Order: MND0132

Enclosed are the results of analyses for samples received by the laboratory on 04/07/04 17:30. 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

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MND0132-01	Water	04/06/04 11:12	04/07/04 17:30
MW-6	MND0132-02	Water	04/06/04 11:48	04/07/04 17:30
MW-7	MND0132-03	Water	04/06/04 10:42	04/07/04 17:30
MW-11	MND0132-04	Water	04/06/04 09:25	04/07/04 17:30
MW-12	MND0132-05	Water	04/06/04 09:58	04/07/04 17:30
MW-13	MND0132-06	Water	04/06/04 11:35	04/07/04 17:30
VW-1	MND0132-07	Water	04/06/04 12:35	04/07/04 17:30

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

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MND0132-01) Water Sampled: 04/06/04 11:12 Received: 04/07/04 17:30									
Ethanol	ND	100	ug/l	1	4D13002	04/13/04	04/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**17**	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)	**96**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*78-129*	"	"	"	"	
MW-6 (MND0132-02) Water Sampled: 04/06/04 11:48 Received: 04/07/04 17:30									
Ethanol	ND	5000	ug/l	50	4D13002	04/13/04	04/14/04	EPA 8260B	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	**1700**	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*78-129*	"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MND0132-03) Water Sampled: 04/06/04 10:42 Received: 04/07/04 17:30									
Ethanol	ND	100	ug/l	1	4D13002	04/13/04	04/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.76**	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)	**0.75**	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*78-129*	"	"	"	"	
MW-11 (MND0132-04) Water Sampled: 04/06/04 09:25 Received: 04/07/04 17:30									
Ethanol	ND	100	ug/l	1	4D13002	04/13/04	04/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**14**	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		*106 %*		*78-129*	"	"	"	"	

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12 (MND0132-05) Water Sampled: 04/06/04 09:58 Received: 04/07/04 17:30									
Ethanol	ND	100	ug/l	1	4D14015	04/14/04	04/14/04	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 (C4-C12)	ND	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*78-129*	"	"	"	"	
MW-13 (MND0132-06) Water Sampled: 04/06/04 11:35 Received: 04/07/04 17:30									
Ethanol	ND	5000	ug/l	50	4D14015	04/14/04	04/14/04	EPA 8260B	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	**1800**	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Benzene	**470**	25	"	"	"	"	"	"	
Toluene	**35**	25	"	"	"	"	"	"	
Ethylbenzene	**1600**	25	"	"	"	"	"	"	
Xylenes (total)	**1300**	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**15000**	2500	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*78-129*	"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VW-1 (MND0132-07) Water Sampled: 04/06/04 12:35 Received: 04/07/04 17:30									
Ethanol	ND	100	ug/l	1	4D14015	04/14/04	04/14/04	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	**13**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	**2.2**	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	**3.0**	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.3**	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	**300**	50	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*78-129*	"	"	"	"	

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

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 4D13002 - EPA 5030B P/T										
Blank (4D13002-BLK1)				Prepared & Analyzed: 04/13/04						
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 (C4-C12)	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*4.88*		"	*5.00*		*97.6*	*78-129*			
Laboratory Control Sample (4D13002-BS1)				Prepared & Analyzed: 04/13/04						
Ethanol	178	100	ug/l	200		89.0	31-186			
tert-Butyl alcohol	45.0	20	"	50.0		90.0	0-206			
Methyl tert-butyl ether	9.87	0.50	"	10.0		98.7	63-137			
Di-isopropyl ether	10.8	0.50	"	10.0		108	76-130			
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	61-141			
tert-Amyl methyl ether	10.1	0.50	"	10.0		101	56-140			
1,2-Dichloroethane	10.3	0.50	"	10.0		103	77-136			
1,2-Dibromoethane (EDB)	8.96	0.50	"	10.0		89.6	77-132			
Benzene	10.5	0.50	"	10.0		105	78-124			
Toluene	9.80	0.50	"	10.0		98.0	78-129			
Ethylbenzene	10.4	0.50	"	10.0		104	84-117			
Xylenes (total)	28.2	0.50	"	30.0		94.0	83-125			
Surrogate: 1,2-Dichloroethane-d4	*4.67*		"	*5.00*		*93.4*	*78-129*			

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

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 4D13002 - EPA 5030B P/T										
Laboratory Control Sample (4D13002-BS2)				Prepared & Analyzed: 04/13/04						
Gasoline Range Organics (C4-C12)	359	50	ug/l	440		81.6	70-124			
Surrogate: 1,2-Dichloroethane-d4	*4.69*		"	*5.00*		*93.8*	*78-129*			
Laboratory Control Sample Dup (4D13002-BSD1)				Prepared & Analyzed: 04/13/04						
Ethanol	217	100	ug/l	200		108	31-186	19.7	37	
tert-Butyl alcohol	46.0	20	"	50.0		92.0	0-206	2.20	22	
Methyl tert-butyl ether	10.2	0.50	"	10.0		102	63-137	3.29	13	
Di-isopropyl ether	10.9	0.50	"	10.0		109	76-130	0.922	9	
Ethyl tert-butyl ether	10.2	0.50	"	10.0		102	61-141	0.00	9	
tert-Amyl methyl ether	10.2	0.50	"	10.0		102	56-140	0.985	12	
1,2-Dichloroethane	10.0	0.50	"	10.0		100	77-136	2.96	13	
1,2-Dibromoethane (EDB)	9.39	0.50	"	10.0		93.9	77-132	4.69	9	
Benzene	10.6	0.50	"	10.0		106	78-124	0.948	12	
Toluene	10.0	0.50	"	10.0		100	78-129	2.02	10	
Ethylbenzene	10.2	0.50	"	10.0		102	84-117	1.94	10	
Xylenes (total)	28.6	0.50	"	30.0		95.3	83-125	1.41	11	
Surrogate: 1,2-Dichloroethane-d4	*4.58*		"	*5.00*		*91.6*	*78-129*			
Laboratory Control Sample Dup (4D13002-BSD2)				Prepared & Analyzed: 04/13/04						
Gasoline Range Organics (C4-C12)	471	50	ug/l	440		107	70-124	27.0	20	QC21
Surrogate: 1,2-Dichloroethane-d4	*4.82*		"	*5.00*		*96.4*	*78-129*			
Batch 4D14015 - EPA 5030B Modified										
Blank (4D14015-BLK1)				Prepared & Analyzed: 04/14/04						
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	"							

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

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 4D14015 - EPA 5030B Modified										
Blank (4D14015-BLK1)				Prepared & Analyzed: 04/14/04						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*5.27*		"	*5.00*		*105*	*78-129*			
Laboratory Control Sample (4D14015-BS1)				Prepared & Analyzed: 04/14/04						
Ethanol	162	100	ug/l	200		81.0	31-143			
tert-Butyl alcohol	48.6	20	"	50.0		97.2	56-131			
Methyl tert-butyl ether	11.5	0.50	"	10.0		115	63-137			
Di-isopropyl ether	11.2	0.50	"	10.0		112	76-130			
Ethyl tert-butyl ether	11.7	0.50	"	10.0		117	81-121			
tert-Amyl methyl ether	11.3	0.50	"	10.0		113	82-140			
1,2-Dichloroethane	10.9	0.50	"	10.0		109	77-136			
1,2-Dibromoethane (EDB)	11.5	0.50	"	10.0		115	77-132			
Benzene	10.3	0.50	"	10.0		103	69-124			
Toluene	9.44	0.50	"	10.0		94.4	78-129			
Ethylbenzene	9.09	0.50	"	10.0		90.9	84-132			
Xylenes (total)	27.5	0.50	"	30.0		91.7	83-137			
Surrogate: 1,2-Dichloroethane-d4	*5.41*		"	*5.00*		*108*	*78-129*			
Laboratory Control Sample (4D14015-BS2)				Prepared & Analyzed: 04/14/04						
Methyl tert-butyl ether	9.91	0.50	ug/l	9.92		99.9	63-137			
Benzene	5.24	0.50	"	6.40		81.9	69-124			
Toluene	30.8	0.50	"	29.7		104	78-129			
Ethylbenzene	7.03	0.50	"	6.96		101	84-132			
Xylenes (total)	35.6	0.50	"	33.7		106	83-137			
Gasoline Range Organics (C4-C12)	376	50	"	440		85.5	70-124			
Surrogate: 1,2-Dichloroethane-d4	*5.35*		"	*5.00*		*107*	*78-129*			
Laboratory Control Sample Dup (4D14015-BSD1)				Prepared & Analyzed: 04/14/04						
Ethanol	177	100	ug/l	200		88.5	31-143	8.85	20	
tert-Butyl alcohol	49.9	20	"	50.0		99.8	56-131	2.64	20	
Methyl tert-butyl ether	11.2	0.50	"	10.0		112	63-137	2.64	20	
Di-isopropyl ether	10.8	0.50	"	10.0		108	76-130	3.64	20	
Ethyl tert-butyl ether	11.3	0.50	"	10.0		113	81-121	3.48	20	
tert-Amyl methyl ether	11.2	0.50	"	10.0		112	82-140	0.889	20	
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	0.922	20	
1,2-Dibromoethane (EDB)	11.1	0.50	"	10.0		111	77-132	3.54	20	
Benzene	9.63	0.50	"	10.0		96.3	69-124	6.72	20	

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

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 4D14015 - EPA 5030B Modified										
Laboratory Control Sample Dup (4D14015-BSD1)				Prepared & Analyzed: 04/14/04						
Toluene	8.92	0.50	ug/l	10.0		89.2	78-129	5.66	20	
Ethylbenzene	8.64	0.50	"	10.0		86.4	84-132	5.08	20	
Xylenes (total)	26.9	0.50	"	30.0		89.7	83-137	2.21	20	
Surrogate: 1,2-Dichloroethane-d4	*5.11*		"	*5.00*		*102*	*78-129*			
Laboratory Control Sample Dup (4D14015-BSD2)				Prepared & Analyzed: 04/14/04						
Methyl tert-butyl ether	10.4	0.50	ug/l	9.92		105	63-137	4.83	20	
Benzene	5.50	0.50	"	6.40		85.9	69-124	4.84	20	
Toluene	31.1	0.50	"	29.7		105	78-129	0.969	20	
Ethylbenzene	6.63	0.50	"	6.96		95.3	84-132	5.86	20	
Xylenes (total)	30.3	0.50	"	33.7		89.9	83-137	16.1	20	
Gasoline Range Organics (C4-C12)	351	50	"	440		79.8	70-124	6.88	20	
Surrogate: 1,2-Dichloroethane-d4	*5.22*		"	*5.00*		*104*	*78-129*			

Sequoia Analytical

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URS Corporation [Arco]	Project: ARCO #6113, Livermore, CA	MND0132
1333 Broadway, Suite 800	Project Number: INTRIM-50739	**Reported:**
Oakland CA, 94612	Project Manager: Scott Robinson	04/20/04 14:30

Notes and Definitions

QC21	The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

MNDO132

Project Name 6113 GWM
BP BU/GEM CO Portfolio Retail
BP Laboratory Contract Number: Atlantic Richfield Company
Requested Due Date (mm/dd/yy) 14 day TAT

Date: 4/6/04

On-site Time: 735	Temp: 65°F
Off-site Time: 1245	Temp: 70°F
Sky Conditions: Clear	
Meteorological Events: None	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: ARCO 6113	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 785 E. Stanley Blvd, LIVERMORE, CA	Address: 1333 Broadway, Suite 800
Lab Address: 885 Jarvis Dr.	Site ID No. ARCO 6113	Oakland, CA 94612
Morgan Hill, CA 95037	Site Lat/Long:	e-mail EDD: donna.cosper@URSCorp.com
	California Global ID #: T0600100111	Consultant/Contractor Project No.: 35-00006113.01 00427
Lab PM Lisa Race	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-893-3600/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address: P.O. Box 6549	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: 1 Send EDF Reports	Moraga, CA 94570	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:	Tele/Fax: 925-299-8891/925-299-8872	BP/GEM Work Release No: INTRIM -30739

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	GRO / BTEX (8015/8021 or 8260)	DRO w/SGC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE, DIPE, TBA (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)	Sample Point Lat/Long and Comments
1	MW-4	1112		X			01	3				X	X				X	X	X	
2	MW-6	1148		X			02	3				X	X				X	X	X	
3	MW-7	1042		X			03	3				X	X				X	X	X	
4	MW-11	925		X			04	3				X	X				X	X	X	
5	MW-12	958		X			05	3				X	X				X	X	X	
6	MW-13	1135		X			06	3				X	X				X	X	X	
7	VW-1	1235		X			07	3				X	X				X	X	X	
8	TB-6113062004	1200		X			08	2				X								ON HOLD
9																				
10																				

Sampler's Name: Blaine Tech	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Blaine Tech		4-7-04	1625		4-7-04	1625
Shipment Date:		4-7-04	(7:50)		4-7-04	1710
Shipment Method:						
Shipment Tracking No:						

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

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

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BP
REC.-BY (PRINT): MME
WORKORDER: MND0132

DATE REC'D AT LAB: 4-7-04
TIME REC'D AT LAB: 1730
DATE LOGGED IN: 4-8-04

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

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / (Absent)	01		MW-4	VOA(3)	HCl	H2O	4-6-04	
	Intact / Broken*	02		6					
2. Chain-of-Custody	(Present) / Absent*	03		7					
3. Traffic Reports or Packing List:	Present / (Absent)	04		11					
		05		12					
4. Airbill: NH	Airbill / Sticker	06		13					
	Present / Absent	07		VW-1					
5. Airbill #:		08		TB-61B406204	VOA(2)				
6. Sample Labels:	(Present) / Absent								
7. Sample IDs:	(Listed) / Not Listed on Chain-of-Custody								
8. Sample Condition:	(Intact) / Broken* / Leaking*								
9. Does information on chain-of-custody, traffic reports and sample labels agree?	(Yes) / No*								
10. Sample received within hold time:	(Yes) / No*								
11. Adequate sample volume received?	(Yes) / No*								
12. Proper Preservatives used:	(Yes) / No*								
13. Temp Rec. at Lab: Is temp 4 +/-2°C?	(Yes) / No**								

(Acceptance range for samples requiring thermal pres.)

Exception (if any): METALS / OFF ON ICE
Problem COC

MME 4-7-04

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

ATTACHMENT C

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

04/21/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #6113, Livermore, CA
Work Order Number:	MND0132
Global ID:	T0600100111
Lab Report Number:	MND0132042020041430

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
MND0132042020041430	MW-11	MND013204	W	CS	8260FA	SW5030B	04/06/04	04/13/04	04/14/04	4D13002	1
MND0132042020041430	MW-12	MND013205	W	CS	8260FA	SW5030B	04/06/04	04/14/04	04/14/04	4D14015	1
MND0132042020041430	MW-13	MND013206	W	CS	8260FA	SW5030B	04/06/04	04/14/04	04/14/04	4D14015	1
MND0132042020041430	MW-4	MND013201	W	CS	8260FA	SW5030B	04/06/04	04/13/04	04/14/04	4D13002	1
MND0132042020041430	MW-6	MND013202	W	CS	8260FA	SW5030B	04/06/04	04/13/04	04/14/04	4D13002	1
MND0132042020041430	MW-7	MND013203	W	CS	8260FA	SW5030B	04/06/04	04/13/04	04/14/04	4D13002	1
MND0132042020041430	VW-1	MND013207	W	CS	8260FA	SW5030B	04/06/04	04/14/04	04/14/04	4D14015	1
		4D13002BSD1	WQ	BD1	8260FA	SW5030B	/ /	04/13/04	04/13/04	4D13002	1
		4D13002BSD2	WQ	BD2	8260FA	SW5030B	/ /	04/13/04	04/13/04	4D13002	1
		4D13002BS1	WQ	BS1	8260FA	SW5030B	/ /	04/13/04	04/13/04	4D13002	1
		4D13002BS2	WQ	BS2	8260FA	SW5030B	/ /	04/13/04	04/13/04	4D13002	1
		4D13002BLK1	WQ	LB1	8260FA	SW5030B	/ /	04/13/04	04/13/04	4D13002	1
		4D14015BSD1	WQ	BD1	8260FA	SW5030B	/ /	04/14/04	04/14/04	4D14015	1
		4D14015BSD2	WQ	BD2	8260FA	SW5030B	/ /	04/14/04	04/14/04	4D14015	1
		4D14015BS1	WQ	BS1	8260FA	SW5030B	/ /	04/14/04	04/14/04	4D14015	1
		4D14015BS2	WQ	BS2	8260FA	SW5030B	/ /	04/14/04	04/14/04	4D14015	1
		4D14015BLK1	WQ	LB1	8260FA	SW5030B	/ /	04/14/04	04/14/04	4D14015	1

EDFSAMP: Error Summary Log

04/21/04

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

EDFTEST: Error Summary Log

04/21/04

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

EDFRES: Error Summary Log

04/21/04

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MND013201	CS	W	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	MND013201	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013201	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013201	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013201	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013201	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	MND013202	CS	W	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	MND013202	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013202	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013202	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013202	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013202	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	MND013203	CS	W	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	MND013203	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013203	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013203	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013203	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013203	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	MND013204	CS	W	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	MND013204	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013204	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013204	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013204	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013204	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	MND013205	CS	W	8260FA	PR	04/14/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MND013205	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013205	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013205	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013205	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013205	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	MND013206	CS	W	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	MND013206	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013206	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013206	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013206	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013206	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	MND013207	CS	W	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	MND013207	CS	W	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	MND013207	CS	W	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	MND013207	CS	W	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	MND013207	CS	W	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	MND013207	CS	W	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	4D13002BLK1	LB1	WQ	8260FA	PR	04/13/04	1	BZ
Warning: extra parameter	4D13002BLK1	LB1	WQ	8260FA	PR	04/13/04	1	BZME
Warning: extra parameter	4D13002BLK1	LB1	WQ	8260FA	PR	04/13/04	1	DCA12D4
Warning: extra parameter	4D13002BLK1	LB1	WQ	8260FA	PR	04/13/04	1	EBZ
Warning: extra parameter	4D13002BLK1	LB1	WQ	8260FA	PR	04/13/04	1	GROC4C12
Warning: extra parameter	4D13002BLK1	LB1	WQ	8260FA	PR	04/13/04	1	XYLENES
Warning: extra parameter	4D13002BS1	BS1	WQ	8260FA	PR	04/13/04	1	BZ
Warning: extra parameter	4D13002BS1	BS1	WQ	8260FA	PR	04/13/04	1	BZME
Warning: extra parameter	4D13002BS1	BS1	WQ	8260FA	PR	04/13/04	1	DCA12D4
Warning: extra parameter	4D13002BS1	BS1	WQ	8260FA	PR	04/13/04	1	EBZ
Warning: extra parameter	4D13002BS1	BS1	WQ	8260FA	PR	04/13/04	1	XYLENES
Warning: extra parameter	4D13002BS2	BS2	WQ	8260FA	PR	04/13/04	1	DCA12D4

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4D13002BS2	BS2	WQ	8260FA	PR	04/13/04	1	GROC4C12
Warning: extra parameter	4D13002BSD1	BD1	WQ	8260FA	PR	04/13/04	1	BZ
Warning: extra parameter	4D13002BSD1	BD1	WQ	8260FA	PR	04/13/04	1	BZME
Warning: extra parameter	4D13002BSD1	BD1	WQ	8260FA	PR	04/13/04	1	DCA12D4
Warning: extra parameter	4D13002BSD1	BD1	WQ	8260FA	PR	04/13/04	1	EBZ
Warning: extra parameter	4D13002BSD1	BD1	WQ	8260FA	PR	04/13/04	1	XYLENES
Warning: extra parameter	4D13002BSD2	BD2	WQ	8260FA	PR	04/13/04	1	DCA12D4
Warning: extra parameter	4D13002BSD2	BD2	WQ	8260FA	PR	04/13/04	1	GROC4C12
Warning: extra parameter	4D14015BLK1	LB1	WQ	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	4D14015BLK1	LB1	WQ	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	4D14015BLK1	LB1	WQ	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	4D14015BLK1	LB1	WQ	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	4D14015BLK1	LB1	WQ	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	4D14015BLK1	LB1	WQ	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	4D14015BS1	BS1	WQ	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	4D14015BS1	BS1	WQ	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	4D14015BS1	BS1	WQ	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	4D14015BS1	BS1	WQ	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	4D14015BS1	BS1	WQ	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	4D14015BS2	BS2	WQ	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	4D14015BS2	BS2	WQ	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	4D14015BS2	BS2	WQ	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	4D14015BS2	BS2	WQ	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	4D14015BS2	BS2	WQ	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	4D14015BS2	BS2	WQ	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	4D14015BSD1	BD1	WQ	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	4D14015BSD1	BD1	WQ	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	4D14015BSD1	BD1	WQ	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	4D14015BSD1	BD1	WQ	8260FA	PR	04/14/04	1	EBZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4D14015BSD1	BD1	WQ	8260FA	PR	04/14/04	1	XYLENES
Warning: extra parameter	4D14015BSD2	BD2	WQ	8260FA	PR	04/14/04	1	BZ
Warning: extra parameter	4D14015BSD2	BD2	WQ	8260FA	PR	04/14/04	1	BZME
Warning: extra parameter	4D14015BSD2	BD2	WQ	8260FA	PR	04/14/04	1	DCA12D4
Warning: extra parameter	4D14015BSD2	BD2	WQ	8260FA	PR	04/14/04	1	EBZ
Warning: extra parameter	4D14015BSD2	BD2	WQ	8260FA	PR	04/14/04	1	GROC4C12
Warning: extra parameter	4D14015BSD2	BD2	WQ	8260FA	PR	04/14/04	1	XYLENES

EDFQC: Error Summary Log

04/21/04

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

EDFCL: Error Summary Log

04/21/04

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: 6930071771
Date/Time of Submittal: 4/21/2004 3:48:56 PM
Facility Global ID: T0600100111
Facility Name: ARCO # 06113
Submittal Title: 2Q04- monitoring report for 6113
Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR.

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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 6113**
Submittal Date/Time:	**4/20/2004 10:42:17 AM**
Confirmation Number:	**3854156315**

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CONTACT SITE ADMINISTRATOR.

ATTACHMENT D

WELL REPAIR DATA

REPAIR DATA SHEET

Page 1 of 1

Client UKS - 6113 Date 5/6/04

Site Address 785 E. Stanley Blvd., Livermore

Job Number 040506-MG1 Technician MG

Repair Location MW-12

Deficiencies Corrected Wellbox destroyed. Replaced w/ new wellbox, 4 bags concrete, and sonotube.

Materials Used 1 W.B., 4 bags concrete, sonotube

Repair Location MW-4

Deficiencies Corrected Bad helicoils, bolt threads damaged. Added 2 new helicoils + 2 bolts.

Materials Used 2 helicoils, 2 bolts

*No CHARGE

Repair Location MW-2

Deficiencies Corrected Bad helicoil, replaced w/ new helicoil + added 2 new bolts.

Materials Used helicoil, 2 bolts

*No CHARGE.

Repair Location MW-3

Deficiencies Corrected Casing flush w/ annular seal, broke out part of annular seal. Added fresh concrete to annular seal.

Materials Used 1/2 bag concrete

Repair Location

Deficiencies Corrected

Materials Used

Repair Location

Deficiencies Corrected

Materials Used

REPAIR DATA SHEET

Page 1 of 1

Client Arco/BP 6113 Date 4/16/04

Site Address 785 E. Stanley Blvd., Livermore

Job Number 040416-ML1 Technician ML

Repair Location MW-6

Deficiencies Corrected Broken tab, apron cracked. Replaced w/ new wellbox + 18 bags concrete.

Materials Used 1 W.B., 18 bags concrete

Repair Location MW-7

Deficiencies Corrected Annular seal deficient. Added concrete to annular seal.

Materials Used ½ bag concrete

Repair Location MW-13

Deficiencies Corrected Annular seal deficient. Added concrete to annular seal.

Materials Used ½ bag concrete

Repair Location

Deficiencies Corrected

Materials Used

Repair Location

Deficiencies Corrected

Materials Used

Repair Location

Deficiencies Corrected

Materials Used

ATTACHMENT E

WELL SURVEY DATA

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UPLOADING A GEO_XY FILE

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Submittal Title:	**Geo XY Site 6113**
Submittal Date/Time:	**3/23/2004 3:10:09 PM**
Confirmation Number:	**8323139786**

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UPLOADING A GEO_Z FILE

Processing is complete. No errors were found!
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Submittal Title:	**Geo Z Site 6113**
Submittal Date/Time:	**3/23/2004 3:10:29 PM**
Confirmation Number:	**5789005875**

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CONTACT SITE ADMINISTRATOR.

BP/ARCO Survey Sheet

Site: **BP 6113**
03/08/2004

Well ID	X-coord (NAD'83)	Y-coord (NAD'83)	Top of Casing (NAVD'88)	Top of Lid (NAVD'88)	Ground Surface (NAVD'88)	Comments
MW1	-121.7879971	37.6775618	459.41	459.96	459.96	
MW2	-121.7881567	37.6775702	460.07	460.49	460.49	
MW3	-121.7880379	37.6776434	459.32	459.69	459.69	
MW4	-121.7877756	37.6777004	458.88	459.33	459.33	
MW6	-121.7877810	37.6778673	457.24	457.81	457.81	
MW7	-121.7876563	37.6778224	457.17	457.65	457.65	
MW8	-121.7879124	37.6775255	459.40	460.01	460.01	
MW9	-121.7876843	37.6775822	458.55	459.20	459.20	
MW10	-121.7882583	37.6778174	459.20	459.52	459.52	
MW11	-121.7880283	37.6781310	457.40	458.11	458.11	
MW12	-121.7873339	37.6782160	457.37		457.66	No lid; destroyed
MW13	-121.7879055	37.6778494	457.91	458.27	458.27	
VW1	-121.7876515	37.6777199	457.08	458.08	458.08	
VW2	-121.7878379	37.6777133	458.64	459.10	459.10	
VW4	-121.7876556	37.6778057	456.99	457.41	457.41	