

September 21, 2004

Alameda County
SEP 23 2004
Environmental Health

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

**Re: Second Semi-Annual 2004 Groundwater Monitoring Report
ARCO Service Station #0771
899 Rincon Avenue
Livermore, California
URS Project #38486709**

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (a BP affiliated company), URS Corporation (URS) is submitting the *Second Semi-Annual 2004 Groundwater Monitoring Report* for ARCO Service Station #0771, located at 899 Rincon Avenue, Livermore, California.

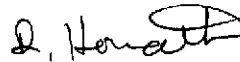
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

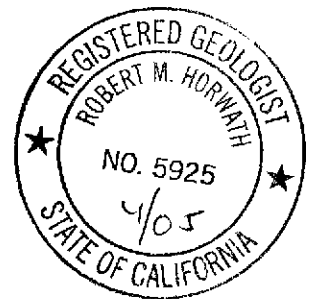
URS CORPORATION



Scott Robinson
Project Manager



Bob Horwath, R.G.
Portfolio Manager



Enclosure: Second Semi-Annual 2004 Groundwater Monitoring Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), (Copy uploaded to ENFOS)
Paul M. Smith, Livermore-Pleasanton Fire Department, 3560 Nevada St., Pleasanton, CA 94566
John Kaiser, RWQCB, 1515 Clay St. Suite 1400, Oakland, CA 94612

R E P O R T

Alameda County
SEP 23 2004
Environmental Health

**SECOND SEMI-ANNUAL 2004
GROUNDWATER MONITORING**

ARCO SERVICE STATION #0771
899 RINCON AVENUE
LIVERMORE, CALIFORNIA

Prepared for
RM

September 21, 2004

URS

URS Corporation
1333 Broadway, Suite 800
Oakland, California 94612

38486709

Date: September 21, 2004
Quarter: 3Q 04

RM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0771 Address: 899 Rincon Avenue, Livermore, California
RM Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Scott Robinson
Consultant Project No.: 38486709
Primary Agency: Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER (Third – 2004):

1. Performed second semi-annual 2004 groundwater monitoring event on August 4, 2004.
2. Prepared and submitted second semi-annual 2004 groundwater monitoring report.
3. Site wells re-surveyed to NAVD '88 on March 8, 2004.

WORK PROPOSED FOR NEXT QUARTER (Fourth– 2004):

1. No environmental work is scheduled for fourth quarter 2004.
2. Prepare and submit fourth quarter 2004 status report.

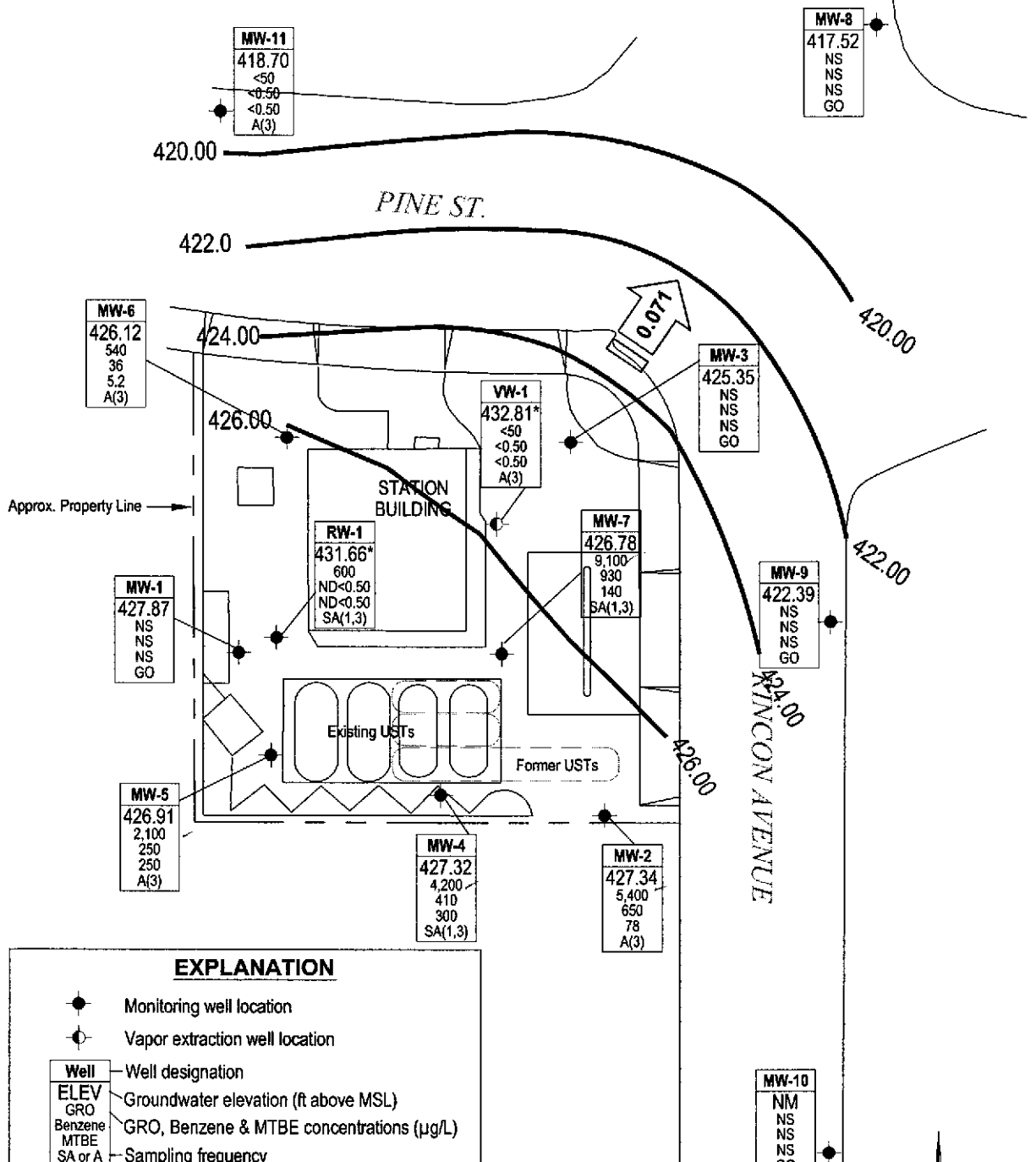
Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Annual (3rd Qtr): MW-2, MW-5, MW-6, MW-11, VW-1
Semi-Annual (1st/3rd Qtr): MW-4, MW-7, RW-1
Frequency of Groundwater Monitoring: Semi-annual
Is Free Product (FP) Present On-Site: No
Cumulative FP Recovered to Date : 3.06 gallons, Wells MW-1, MW-2, and MW-5
FP Recovered This Quarter : None (FP was last recovered in 1992)
Bulk Soil Removed to Date : 1,700 cubic yards of TPH-impacted soil
Current Remediation Techniques: Natural Attenuation
Approximate Depth to Groundwater: 20.48 (VW-1) to 34.28 (MW-8) feet
Groundwater Gradient (direction): Northeast
Groundwater Gradient (magnitude): 0.071 feet per foot

DISCUSSION:

Gasoline range organics (GRO) were detected above laboratory reporting limits in six of the eight wells sampled this quarter at concentrations ranging from 540 µg/L (MW-6) to 9,100 µg/L (MW-7). Benzene was detected above laboratory reporting limits in five wells at concentrations ranging from 36 µg/L (MW-6) to 930 (MW-7) µg/L. Methyl tert-butyl ether (MTBE) was detected above laboratory reporting limits in five wells at concentrations ranging from 5.2 µg/L (MW-6) to 300 µg/L (MW-4). Tertiary butyl-ether (TBA) was detected above laboratory reporting limits in two wells at concentrations of 850 µg/L (MW-5) and 1,300 µg/L (MW-4).

ATTACHMENTS:

- **Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – August 4, 2004**
- **Table 1 – Groundwater Elevation and Analytical Data**
- **Table 2 – Groundwater Flow Direction and Gradient**
- **Table 3 – Fuel Additives 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 Report and EDF/Geowell Submittal Confirmation**
- **Attachment D – Well Survey Data**



EXPLANATION	
	Monitoring well location
	Vapor extraction well location
Well	Well designation
ELEV	Groundwater elevation (ft above MSL)
GRO	GRO, Benzene & MTBE concentrations (µg/L)
MTBE	
SA or A	Sampling frequency
*	Not used in contouring
<	Not detected at or above laboratory reporting limits
NS	Not sampled
A(3)	Sampled annually during 3rd quarter
GO	Not sampled, gauged only
SA(1,3)	Sampled semi-annually, 1st & 3rd quarters
	423.00 Groundwater Elevation Contour (ft above MSL)
	Approximate Groundwater Flow Direction and Gradient (ft/ft)

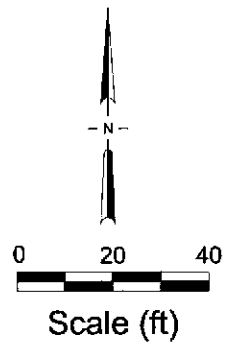


Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-1	3/20/1995	--	451.73	--	--	24.50	--	427.23	90,000	1,800	1,100	1,000	5,600	--	--	--
	6/2/1995	--	451.73	--	--	25.60	--	426.13	81,000	2,000	1,400	990	4,600	--	--	--
	8/23/1995	--	451.73	--	--	29.04	--	422.69	44,000	2,400	1,900	670	3,800	<300	--	--
	12/4/1995	--	451.73	--	--	31.31	--	420.42	22,000	870	660	390	2,200	--	--	--
	2/20/1996	--	451.73	--	--	22.26	--	429.47	21,000	1,500	1,200	650	3,500	<300	--	--
	5/15/1996	--	451.73	--	--	23.42	--	428.31	36,000	3,000	2,500	960	5,700	<250	--	--
	8/13/1996	--	451.73	--	--	26.83	--	424.90	19,000	730	580	450	2,500	<200	--	--
	11/13/1996	--	451.73	--	--	31.05	--	420.68	6,600	47	16	74	160	<30	--	--
	3/26/1997	--	451.73	--	--	26.29	--	425.44	1,900	100	55	37	200	<30	--	--
	5/15/1997	--	451.73	--	--	28.65	--	423.08	16,000	490	250	250	1,100	<120	--	--
	8/26/1997	--	451.73	--	--	31.53	--	420.20	190	6.7	3	6.3	25	<3	--	--
	11/5/1997	--	451.73	--	--	33.93	--	417.80	63	0.5	<0.5	0.8	2.4	29	--	--
	2/18/1998	--	451.73	--	--	20.46	--	431.27	23,000	1,500	610	550	3,000	<120	--	--
	5/20/1998	--	451.73	--	--	23.84	--	427.89	50,000	4,400	1,900	1,400	80,000	<300	--	--
	7/30/1998	P	451.73	--	--	26.94	--	424.79	150	<0.5	<0.5	<0.5	1.6	<3	8.74	--
	10/29/1998	NP	451.73	--	--	32.58	--	419.15	<50	<0.5	<0.5	<0.5	1.8	<3	2	--
	3/16/1999	P	451.73	--	--	26.20	--	425.53	3,200	160	32	89	390	270	2	--
	5/5/1999	P	451.73	--	--	27.57	--	424.16	3,600	140	46	76	290	170	11.65	--
	8/26/1999	P	451.73	--	--	30.25	--	421.48	3,200	210	29	100	220	120	1.43	--
	12/3/1999	NP	451.73	--	--	32.70	--	419.03	53	<0.5	<0.5	<0.5	1	<3	2.12	--
	3/13/2000	P	451.73	--	--	24.45	--	427.28	<50	<0.5	<0.5	<0.5	<1	<3	5.81	--
	6/20/2000	P	451.73	--	--	27.79	--	423.94	356	40.1	7.17	11.9	22.7	<2.50	5.1	--
	6/20/2000 b	--	451.73	--	--	--	--	--	67.4	3.88	<0.500	1.78	1.48	<2.50	--	--
	8/31/2000	--	451.73	--	--	30.35	--	421.38	--	--	--	--	--	--	--	--
	2/9/2001	--	451.73	--	--	30.95	--	420.78	--	--	--	--	--	--	--	--
	9/17/2001	--	451.73	--	--	30.85	--	420.88	--	--	--	--	--	--	--	--
	1/21/2002	--	451.73	--	--	30.61	--	421.12	--	--	--	--	--	--	--	--
	7/19/2002	--	451.73	--	--	31.55	--	420.18	--	--	--	--	--	--	--	--
	1/15/2003	--	451.73	--	--	22.99	--	428.74	--	--	--	--	--	--	--	--
	7/9/2003	--	451.73	--	--	30.35	--	421.38	--	--	--	--	--	--	--	--
	02/19/2004	--	451.73	--	--	26.24	--	425.49	--	--	--	--	--	--	--	--
	08/04/2004	--	454.23	--	--	26.36	--	427.87	--	--	--	--	--	--	--	--
MW-2	3/20/1995	--	449.49	--	--	20.27	--	429.22	54,000	2,600	1,600	1,200	7,600	--	--	--

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MW-2	6/2/1995	--	449.49	--	--	22.32	--	427.17	37,000	2,200	800	980	4,800	--	--	--
	8/23/1995	--	449.49	--	--	25.69	--	423.80	65,000	1,100	310	840	3,000	<500	--	--
	12/4/1995	--	449.49	--	--	28.52	--	420.97	19,000	680	150	410	1,600	--	--	--
	2/20/1996	--	449.49	--	--	19.00	--	430.49	22,000	1,200	240	590	2,200	<300	--	--
	5/15/1996	--	449.49	--	--	20.03	--	429.46	25,000	1,200	240	610	2,100	<300	--	--
	8/13/1996	--	449.49	--	--	24.44	--	425.05	19,000	640	110	420	1,200	<300	--	--
	11/13/1996	--	449.49	--	--	28.42	--	421.07	15,000	260	52	220	640	<200	--	--
	3/26/1997	--	449.49	--	--	22.98	--	426.51	17,000	580	120	360	980	<120	--	--
	5/15/1997	--	449.49	--	--	25.40	--	424.09	18,000	420	63	340	730	<120	--	--
	8/26/1997	--	449.49	--	--	28.38	--	421.11	5,300	210	26	140	270	<120	--	--
	11/5/1997	--	449.49	--	--	31.93	--	417.56	560	42	2.6	7	9	<40	--	--
	2/18/1998	--	449.49	--	--	16.87	--	432.62	18,000	710	120	480	1,100	130	--	--
	5/20/1998	--	449.49	--	--	20.29	--	429.20	16,000	480	72	440	1,100	<120	--	--
	7/30/1998	P	449.49	--	--	23.51	--	425.98	9,700	240	33	210	490	<120	9.21	--
	10/29/1998	NP	449.49	--	--	30.08	--	419.41	58	<0.5	<0.5	<0.5	1.2	<3	1	--
	3/16/1999	P	449.49	--	--	23.22	--	426.27	4,700	120	13	90	220	60	2	--
	5/5/1999	P	449.49	--	--	24.05	--	425.44	5,500	58	7.1	58	98	17	9.09	--
	8/26/1999	P	449.49	--	--	26.44	--	423.05	3,700	55	11	60	64	26	1.9	--
	12/3/1999	NP	449.49	--	--	30.15	--	419.34	130	<0.5	<0.5	0.7	1.8	<3	1.96	--
	3/13/2000	P	449.49	--	--	20.68	--	428.81	<50	<0.5	<0.5	<0.5	<1	<3	--	--
	6/20/2000	P	449.49	--	--	23.08	--	426.41	226	2.2	<0.500	4.83	7.88	<2.50	4.9	--
	8/31/2000	P	449.49	--	--	26.71	--	422.78	87.1	1.78	<0.500	1.33	1.15	<2.50	1.59	--
	2/9/2001	--	449.49	--	--	29.65	--	419.84	--	--	--	--	--	--	--	--
	9/17/2001	P	449.49	--	--	27.62	--	421.87	3,100	300	12	8.8	18	120	1.7	--
	1/21/2002	--	449.49	--	--	27.09	--	422.40	--	--	--	--	--	--	--	--
	7/19/2002	P	449.49	--	--	27.82	--	421.67	4,700 a	280	13	120	19	16	0.8	7.4
	1/15/2003	--	449.49	--	--	22.18	--	427.31	--	--	--	--	--	--	--	--
	7/9/2003	--	449.49	--	--	26.40	--	423.09	3,900	170	<5.0	100	19	39	2.5	7
	02/19/2004	--	449.49	--	--	23.85	--	425.64	--	--	--	--	--	--	--	--
	08/04/2004	P	452.05	--	--	24.71	--	427.34	5,400	650	21	160	56	78	0.8	7.2
MW-3	3/20/1995	--	450.28	--	--	22.19	--	428.09	94	<0.5	<0.5	<0.5	<0.5	--	--	--
	6/2/1995	--	450.28	--	--	23.28	--	427.00	72	<0.5	<0.5	<0.5	<0.5	--	--	--
	8/23/1995	--	450.28	--	--	26.55	--	423.73	98	<0.5	<0.5	<0.6	0.5	<3	--	--

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Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-3	12/4/1995	--	450.28	--	--	29.52	--	420.76	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	2/20/1996	--	450.28	--	--	19.83	--	430.45	130	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--	450.28	--	--	21.03	--	429.25	120	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
	8/13/1996	--	450.28	--	--	25.67	--	424.61	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/13/1996	--	450.28	--	--	21.57	--	428.71	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	3/26/1997	--	450.28	--	--	24.15	--	426.13	<50	1.1	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--	450.28	--	--	26.85	--	423.43	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	8/26/1997	--	450.28	--	--	30.07	--	420.21	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/5/1997	--	450.28	--	--	32.46	--	417.82	<50	<0.5	0.7	<0.5	<0.5	<3	--	--
	2/18/1998	--	450.28	--	--	17.82	--	432.46	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/20/1998	--	450.28	--	--	21.41	--	428.87	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	7/30/1998	P	450.28	--	--	26.41	--	423.87	<50	<0.5	<0.5	<0.5	<0.5	<3	9.56	--
	10/29/1998	P	450.28	--	--	31.33	--	418.95	<50	<0.5	<0.5	<0.5	<0.5	<3	1	--
	3/16/1999	P	450.28	--	--	24.61	--	425.67	<50	<0.5	<0.5	<0.5	<0.5	<3	1	--
	5/5/1999	P	450.28	--	--	25.75	--	424.53	140	<0.5	<0.5	0.6	<0.5	<3	4.43	--
	8/26/1999	P	450.28	--	--	28.49	--	421.79	80	0.6	0.6	0.6	1	<3	1.69	--
	12/3/1999	P	450.28	--	--	31.45	--	418.83	<50	<0.5	<0.5	<0.5	<1	<3	2.26	--
	3/13/2000	P	450.28	--	--	22.18	--	428.10	<50	<0.5	<0.5	<0.5	<1	<3	4.41	--
	6/20/2000	P	450.28	--	--	26.03	--	424.25	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	2.3	--
	8/31/2000	--	450.28	--	--	28.75	--	421.53	--	--	--	--	--	--	--	--
	2/9/2001	--	450.28	--	--	31.04	--	419.24	--	--	--	--	--	--	--	--
	9/17/2001	--	450.28	--	--	29.04	--	421.24	--	--	--	--	--	--	--	--
	1/21/2002	--	450.28	--	--	28.81	--	421.47	--	--	--	--	--	--	--	--
	7/19/2002	--	450.28	--	--	28.92	--	421.36	--	--	--	--	--	--	--	--
	1/15/2003	--	450.28	--	--	22.88	--	427.40	--	--	--	--	--	--	--	--
	7/9/2003	--	450.28	--	--	28.00	--	422.28	--	--	--	--	--	--	--	--
	02/19/2004	--	450.28	--	--	25.29	--	424.99	--	--	--	--	--	--	--	--
	08/04/2004	--	452.75	--	--	27.40	--	425.35	--	--	--	--	--	--	--	--
MW-4	3/20/1995	--	451.09	--	--	22.68	--	428.41	12,000	1,000	100	450	700	--	--	--
	6/2/1995	--	451.09	--	--	24.41	--	426.68	9,000	850	56	380	430	--	--	--
	8/23/1995	--	451.09	--	--	27.72	--	423.37	5,300	400	25	240	170	<100	--	--
	12/4/1995	--	451.09	--	--	29.85	--	421.24	6,700	100	<10	90	38	--	--	--
	2/20/1996	--	451.09	--	--	21.16	--	429.93	7,000	360	22	180	160	<70	--	--

Table 1
Groundwater Elevation and Analytical Data

ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-4	5/15/1996	--	451.09	--	--	22.18	--	428.91	--	--	--	--	--	--	--	--
	8/13/1996	--	451.09	--	--	26.20	--	424.89	--	--	--	--	--	--	--	--
	11/13/1996	--	451.09	--	--	29.72	--	421.37	--	--	--	--	--	--	--	--
	3/26/1997	--	451.09	--	--	21.86	--	429.23	8,900	390	33	200	250	<70	--	--
	5/15/1997	--	451.09	--	--	26.92	--	424.17	--	--	--	--	--	--	--	--
	8/26/1997	--	451.09	--	--	29.30	--	421.79	--	--	--	--	--	--	--	--
	11/5/1997	--	451.09	--	--	32.14	--	418.95	--	--	--	--	--	--	--	--
	2/18/1998	--	451.09	--	--	19.30	--	431.79	5,300	220	19	160	130	120	--	--
	5/20/1998	--	451.09	--	--	22.40	--	428.69	--	--	--	--	--	--	--	--
	7/30/1998	--	451.09	--	--	25.74	--	425.35	--	--	--	--	--	--	--	--
	10/29/1998	--	451.09	--	--	31.26	--	419.83	--	--	--	--	--	--	--	--
	3/16/1999	P	451.09	--	--	25.05	--	426.04	1,900	49	<5	43	<5	82	1.5	--
	5/5/1999	--	451.09	--	--	26.15	--	424.94	--	--	--	--	--	--	--	--
	8/26/1999	--	451.09	--	--	28.60	--	422.49	--	--	--	--	--	--	1.43	--
	12/3/1999	--	451.09	--	--	31.53	--	419.56	--	--	--	--	--	--	--	--
	3/13/2000	P	451.09	--	--	23.61	--	427.48	<50	<0.5	<0.5	<0.5	<1	<3	3.82	--
	6/20/2000	--	451.09	--	--	26.38	--	424.71	--	--	--	--	--	--	0.4	--
	8/31/2000	NP	451.09	--	--	29.55	--	421.54	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.04	--
	2/9/2001	NP	451.09	--	--	30.30	--	420.79	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.39	--
	9/17/2001	NP	451.09	--	--	29.90	--	421.19	3,400	51	<5.0	16	23	360	0.92	--
1/21/2002	NP	451.09	--	--	29.51	--	421.58	1,900	140	12	27	48	300	1.03	--	
7/19/2002	NP	451.09	--	--	30.77	--	420.32	2,700 a	150	9.9	<5.0	<5.0	130	1	7.3	
1/15/2003	--	451.09	--	--	23.56	--	427.53	4,800 a	150	5.3	28	46	150	1.3	7	
7/9/2003	--	451.09	--	--	29.50	--	421.59	3,000	210	9.4	6	20	150	2	6.9	
02/19/2004	P	451.09	--	--	26.35	--	424.74	4,800 c	270	11	25	19	180	1.8	6.2	
08/04/2004	NP	453.80	--	--	26.48	--	427.32	4,200	410	13	49	59	300	0.7	6.7	
MW-5	3/20/1995	--	451.4	--	--	23.20	--	428.20	26,000	1,300	180	890	2,900	--	--	--
	6/2/1995	--	451.4	--	--	24.80	--	426.60	39,000	940	160	740	1,900	--	--	--
	8/23/1995	--	451.4	--	--	28.10	--	423.30	14,000	490	74	250	890	<300	--	--
	12/4/1995	--	451.4	--	--	29.83	--	421.57	7,600	230	13	61	80	--	--	--
	2/20/1996	--	451.4	--	--	21.63	--	429.77	4,300	220	12	45	130	<50	--	--
	5/15/1996	--	451.4	--	--	22.87	--	428.53	2,200	380	17	58	84	<40	--	--
8/13/1996	--	451.4	--	--	26.48	--	424.92	1,700	150	16	24	35	47	--	--	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-5	11/13/1996	--	451.4	--	--	29.68	--	421.72	850	150	11	19	37	66	--	--
	3/26/1997	--	451.4	--	--	25.14	--	426.26	2,400	440	21	79	210	68	--	--
	5/15/1997	--	451.4	--	--	27.38	--	424.02	3,900	510	19	140	240	48	--	--
	8/26/1997	--	451.4	--	--	29.89	--	421.51	76	4.9	<0.5	1.5	2	9	--	--
	11/5/1997	--	451.4	--	--	32.57	--	418.83	63	0.8	<0.5	<0.5	1.2	34	--	--
	2/18/1998	--	451.4	--	--	19.99	--	431.41	6,200	630	70	320	640	320	--	--
	5/20/1998	--	451.4	--	--	23.21	--	428.19	2,300	340	21	110	140	62	--	--
	7/30/1998	P	451.4	--	--	26.19	--	425.21	<50	0.8	<0.5	0.6	0.9	<3	8.83	--
	10/29/1998	NP	451.4	--	--	31.92	--	419.48	<50	<0.5	<0.5	<0.5	<0.5	<3	2	--
	3/16/1999	P	451.4	--	--	25.80	--	425.60	1,300	170	8	59	65	120	2	--
	5/5/1999	P	451.4	--	--	27.09	--	424.31	320	31	1.1	13	13	19	12.09	--
	8/26/1999	P	451.4	--	--	29.67	--	421.73	260	13	1.7	4.2	6.3	150	1.31	--
	12/3/1999	--	451.4	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/13/2000	P	451.4	--	--	24.51	--	426.89	<50	<0.5	<0.5	<0.5	<1	<3	4.41	--
	6/20/2000	P	451.4	--	--	27.37	--	424.03	60.8	4.84	<0.500	1.9	1.59	<2.50	5.3	--
	8/31/2000	P	451.4	--	--	30.21	--	421.19	<50.0	1.18	<0.500	<0.500	<0.500	3.83	0.97	--
	2/9/2001	--	451.4	--	--	30.19	--	421.21	--	--	--	--	--	--	--	--
	9/17/2001	P	451.4	--	--	30.71	--	420.69	2,700	120	10	90	77	330	0.81	--
	1/21/2002	--	451.4	--	--	30.40	--	421.00	--	--	--	--	--	--	--	--
	7/19/2002	P	451.4	--	--	31.93	--	419.47	1,600 a	170	7	120	<5.0	180	1.7	7.2
	1/15/2003	--	451.4	--	--	23.12	--	428.28	--	--	--	--	--	--	--	--
	7/9/2003	--	451.4	--	--	30.95	--	420.45	2,000	160	5.7	67	27	260	1.5	6.9
	02/19/2004	--	451.40	--	--	26.73	--	424.67	--	--	--	--	--	--	--	--
	08/04/2004	P	453.52	--	--	26.61	--	426.91	2,100	250	5.3	73	22	250	2.7	7.0
MW-6	3/20/1995	--	451.37	--	--	25.19	--	426.18	2,600	210	87	82	140	--	--	--
	6/2/1995	--	451.37	--	--	25.75	--	425.62	1,600	55	7.9	40	26	--	--	--
	8/23/1995	--	451.37	--	--	29.53	--	421.84	1,400	42	2.5	36	13	<20	--	--
	12/4/1995	--	451.37	--	--	32.28	--	419.09	2,500	52	5.8	59	13	--	--	--
	2/20/1996	--	451.37	--	--	22.27	--	429.10	2,500	120	16	73	12	<30	--	--
	5/15/1996	--	451.37	--	--	23.86	--	427.51	2,000	71	6.4	47	25	<15	--	--
	8/13/1996	--	451.37	--	--	28.55	--	422.82	3,800	91	8.2	69	25	<20	--	--
	11/13/1996	--	451.37	--	--	32.04	--	419.33	1,900	55	3.3	55	8.5	16	--	--
	3/26/1997	--	451.37	--	--	26.84	--	424.53	1,800	51	5	32	15	<30	--	--

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-6	5/15/1997	--	451.37	--	--	29.58	--	421.79	2,400	46	3	29	9	<12	--	--
	8/26/1997	--	451.37	--	--	32.67	--	418.70	1,400	61	6	33	10	<12	--	--
	11/5/1997	--	451.37	--	--	34.62	--	416.75	690	29	2.7	18	3.4	9	--	--
	2/18/1998	--	451.37	--	--	20.09	--	431.28	1,800	74	5	24	12	19	--	--
	5/20/1998	--	451.37	--	--	24.05	--	427.32	1,900	280	4	31	16	9	--	--
	7/30/1998	P	451.37	--	--	28.72	--	422.65	2,300	110	7	36	20	<15	--	--
	10/29/1998	P	451.37	--	--	32.77	--	418.60	2,500	14	13	17	12	<12	1	--
	3/16/1999	P	451.37	--	--	26.45	--	424.92	1,200	65	4	27	13	18	0.5	--
	5/5/1999	P	451.37	--	--	27.86	--	423.51	2,200	53	4	26	6	25	5.59	--
	8/26/1999	P	451.37	--	--	30.49	--	420.88	1,100	11	6	10	4	13	2.35	--
	12/3/1999	P	451.37	--	--	32.35	--	419.02	370	<0.5	<0.5	0.8	<1	4	2.36	--
	3/13/2000	P	451.37	--	--	28.36	--	423.01	54	2.1	0.5	0.9	1.4	<3	4.22	--
	6/20/2000	P	451.37	--	--	28.35	--	423.02	195	1.83	<0.500	0.528	<0.500	<2.50	3.5	--
	8/31/2000	P	451.37	--	--	30.20	--	421.17	276	3.52	0.788	1.15	0.621	8.73	7	--
	2/9/2001	P	451.37	--	--	30.70	--	420.67	253	5.44	2.93	0.924	0.977	48.9	0.59	--
	2/9/2001 b	--	451.37	--	--	--	--	--	222	4.49	2.73	0.579	0.523	57.1	--	--
	9/17/2001	P	451.37	--	--	30.94	--	420.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.79	--
9/17/2001 b	--	451.37	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	
1/21/2002	P	451.37	--	--	30.55	--	420.82	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.9	--	
7/19/2002	P	451.37	--	--	30.27	--	421.10	60 a	2	<0.50	<0.50	<0.50	<0.50	3.5	7.9	
1/15/2003	--	451.37	--	--	22.86	--	428.51	83 a	9.1	<0.50	3.4	4.6	1	2.5	7.2	
7/9/2003	P	451.37	--	--	29.41	--	421.96	110	<0.50	<0.50	<0.50	<0.50	0.98	2.6	7.1	
02/19/2004	--	451.37	--	--	43.25	--	408.12	--	--	--	--	--	--	--	--	
08/04/2004	P	453.83	--	--	27.71	--	426.12	540	36	3.8	17	24	5.2	3.5	7.1	
MW-7	3/20/1995	--	450.33	--	--	22.07	--	428.26	31,000	2,300	400	620	2,900	--	--	--
	6/2/1995	--	450.33	--	--	23.42	--	426.91	40,000	1,400	280	610	2,400	--	--	--
	8/23/1995	--	450.33	--	--	27.13	--	423.20	25,000	1,400	200	600	1,600	350	--	--
	12/4/1995	--	450.33	--	--	29.45	--	420.88	23,000	1,100	74	490	720	--	--	--
	2/20/1996	--	450.33	--	--	20.25	--	430.08	39,000	1,200	140	640	1,800	<400	--	--
	5/15/1996	--	450.33	--	--	21.38	--	428.95	--	--	--	--	--	--	--	--
	8/13/1996	--	450.33	--	--	25.52	--	424.81	--	--	--	--	--	--	--	--
	11/13/1996	--	450.33	--	--	29.38	--	420.95	--	--	--	--	--	--	--	--
3/26/1997	--	450.33	--	--	24.36	--	425.97	35,000	1,100	180	460	1,700	<300	--	--	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-7	5/15/1997	--	450.33	--	--	26.90	--	423.43	--	--	--	--	--	--	--	--
	8/26/1997	--	450.33	--	--	30.21	--	420.12	--	--	--	--	--	--	--	--
	11/5/1997	--	450.33	--	--	32.49	--	417.84	--	--	--	--	--	--	--	--
	2/18/1998	--	450.33	--	--	18.10	--	432.23	19,000	1,100	120	460	1,700	240	--	--
	5/20/1998	--	450.33	--	--	21.68	--	428.65	--	--	--	--	--	--	--	--
	7/30/1998	--	450.33	--	--	26.07	--	424.26	--	--	--	--	--	--	--	--
	10/29/1998	--	450.33	--	--	31.13	--	419.20	--	--	--	--	--	--	--	--
	3/16/1999	P	450.33	--	--	24.45	--	425.88	8,600	430	51	200	680	<120	1.5	--
	5/5/1999	--	450.33	--	--	25.84	--	424.49	--	--	--	--	--	--	--	--
	8/26/1999	--	450.33	--	--	28.28	--	422.05	--	--	--	--	--	--	1.51	--
	12/3/1999	--	450.33	--	--	31.57	--	418.76	--	--	--	--	--	--	--	--
	3/13/2000	--	450.33	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2000	--	450.33	--	--	25.91	--	424.42	--	--	--	--	--	--	5.4	--
	8/31/2000	--	450.33	--	--	28.40	--	421.93	8,410	344	58.9	276	581	202	0.09	--
2/9/2001	--	450.33	--	--	30.04	--	420.29	2,030	203	12	17.9	49.4	128	1.55	--	
9/17/2001	P	450.33	--	--	29.03	--	421.30	4,800	200	14	9.9	27	160	0.29	--	
1/21/2002	--	450.33	--	--	--	--	--	2,600	280	17	41	50	97	--	--	
1/21/2002	P	450.33	--	--	28.98	--	421.35	4,200	350	20	52	63	99	0.81	--	
7/19/2002	P	450.33	--	--	28.70	--	421.63	5,700 a	630	31	330	160	64	0.7	7.3	
1/15/2003	--	450.33	--	--	21.91	--	428.42	12,000 a	470	19	340	310	91	1.5	7	
7/9/2003	P	450.33	--	--	27.88	--	422.45	6,700	590	23	280	92	110	1	6.9	
02/19/2004	P	450.33	--	--	25.12	--	425.21	8,900 c	670	24	470	120	100	0.8	6.6	
08/04/2004	P	452.70	--	--	25.92	--	426.78	9,100	930	29	460	130	140	0.6	7.2	
MW-8	3/20/1995	--	449.43	--	--	24.75	--	424.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	6/2/1995	--	449.43	--	--	24.95	--	424.48	--	--	--	--	--	--	--	--
	8/23/1995	--	449.43	--	--	30.94	--	418.49	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	12/4/1995	--	449.43	--	--	31.99	--	417.44	--	--	--	--	--	--	--	--
	2/20/1996	--	449.43	--	--	21.13	--	428.30	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--	449.43	27.50	42.50	21.96	--	427.47	--	--	--	--	--	--	--	--
	8/13/1996	--	449.43	27.50	42.50	30.20	--	419.23	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/13/1996	--	449.43	27.50	42.50	33.24	--	416.19	--	--	--	--	--	--	--	--
	3/26/1997	--	449.43	27.50	42.50	26.85	--	422.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--	449.43	27.50	42.50	29.69	--	419.74	--	--	--	--	--	--	--	--

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-8	8/26/1997	--	449.43	27.50	42.50	34.00	--	415.43	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	11/5/1997	--	449.43	27.50	42.50	35.94	--	413.49	--	--	--	--	--	--	--	--
	2/18/1998	--	449.43	27.50	42.50	18.18	--	431.25	<50	0.6	0.6	<0.5	1.1	<3	--	--
	5/20/1998	--	449.43	27.50	42.50	22.85	--	426.58	--	--	--	--	--	--	--	--
	7/30/1998	NP	449.43	27.50	42.50	30.31	--	419.12	<50	<0.5	<0.5	<0.5	<0.5	<3	8.21	--
	10/29/1998	--	449.43	27.50	42.50	35.88	--	413.55	--	--	--	--	--	--	--	--
	3/16/1999	NP	449.43	27.50	42.50	28.50	--	420.93	<50	<0.5	<0.5	<0.5	<0.5	<3	1	--
	5/5/1999	--	449.43	27.50	42.50	29.76	--	419.67	--	--	--	--	--	--	--	--
	8/26/1999	P	449.43	27.50	42.50	33.51	--	415.92	<50	<0.5	<0.5	<0.5	<0.5	<3	4.93	--
	12/3/1999	--	449.43	27.50	42.50	35.83	--	413.60	--	--	--	--	--	--	--	--
	3/13/2000	P	449.43	27.50	42.50	26.12	--	423.31	<50	<0.5	<0.5	<0.5	<1	<3	2.81	--
	6/20/2000	--	449.43	27.50	42.50	30.91	--	418.52	--	--	--	--	--	--	5.8	--
	8/31/2000	--	449.43	27.50	42.50	33.70	--	415.73	--	--	--	--	--	--	--	--
	2/9/2001	--	449.43	27.50	42.50	30.90	--	418.53	--	--	--	--	--	--	--	--
	9/17/2001	--	449.43	27.50	42.50	33.95	--	415.48	--	--	--	--	--	--	--	--
	1/21/2002	--	449.43	27.50	42.50	33.71	--	415.72	--	--	--	--	--	--	--	--
	7/19/2002	--	449.43	27.50	42.50	35.30	--	414.13	--	--	--	--	--	--	--	--
1/15/2003	--	449.43	27.50	42.50	27.10	--	422.33	--	--	--	--	--	--	--	--	
7/9/2003	--	449.43	27.50	42.50	33.10	--	416.33	--	--	--	--	--	--	--	--	
02/19/2004	--	449.43	--	--	28.92	--	420.51	--	--	--	--	--	--	--	--	
08/04/2004	--	451.80	--	--	34.28	--	417.52	--	--	--	--	--	--	--	--	
MW-9	3/20/1995	--	449.21	29.50	39.50	19.11	--	430.10	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	6/2/1995	--	449.21	29.50	39.50	21.23	--	427.98	--	--	--	--	--	--	--	--
	8/23/1995	--	449.21	29.50	39.50	24.33	--	424.88	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	12/4/1995	--	449.21	29.50	39.50	27.90	--	421.31	--	--	--	--	--	--	--	--
	2/20/1996	--	449.21	29.50	39.50	17.86	--	431.35	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--	449.21	29.50	39.50	18.69	--	430.52	--	--	--	--	--	--	--	--
	8/13/1996	--	449.21	29.50	39.50	24.17	--	425.04	--	--	--	--	--	--	--	--
	11/13/1996	--	449.21	29.50	39.50	28.01	--	421.20	--	--	--	--	--	--	--	--
	3/26/1997	--	449.21	29.50	39.50	22.58	--	426.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--	449.21	29.50	39.50	25.12	--	424.09	--	--	--	--	--	--	--	--
	8/26/1997	--	449.21	29.50	39.50	28.28	--	420.93	--	--	--	--	--	--	--	--
11/5/1997	--	449.21	29.50	39.50	31.18	--	418.03	--	--	--	--	--	--	--	--	

Table 1

Groundwater Elevation and Analytical Data

ARCO Station No. 0771
899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-9	2/18/1998	--	449.21	29.50	39.50	16.03	--	433.18	<50	0.6	0.5	<0.5	1	<3	--	--
	5/20/1998	--	449.21	29.50	39.50	19.31	--	429.90	--	--	--	--	--	--	--	--
	7/30/1998	--	449.21	29.50	39.50	24.90	--	424.31	--	--	--	--	--	--	--	--
	10/29/1998	--	449.21	29.50	39.50	30.08	--	419.13	--	--	--	--	--	--	--	--
	3/16/1999	P	449.21	29.50	39.50	22.68	--	426.53	<50	<0.5	<0.5	<0.5	<0.5	<3	1	--
	5/5/1999	--	449.21	29.50	39.50	23.82	--	425.39	--	--	--	--	--	--	--	--
	8/26/1999	--	449.21	29.50	39.50	26.57	--	422.64	--	--	--	--	--	--	5.08	--
	12/3/1999	--	449.21	29.50	39.50	--	--	--	--	--	--	--	--	--	--	--
	3/13/2000	P	449.21	29.50	39.50	25.62	--	423.59	<50	<0.5	<0.5	<0.5	<1	<3	5.43	--
	6/20/2000	--	449.21	29.50	39.50	23.55	--	425.66	--	--	--	--	--	--	6.2	--
	8/31/2000	--	449.21	29.50	39.50	27.39	--	421.82	--	--	--	--	--	--	--	--
	2/9/2001	--	449.21	29.50	39.50	28.65	--	420.56	--	--	--	--	--	--	--	--
	9/17/2001	--	449.21	29.50	39.50	27.51	--	421.70	--	--	--	--	--	--	--	--
	1/21/2002	--	449.21	29.50	39.50	27.09	--	422.12	--	--	--	--	--	--	--	--
	7/19/2002	--	449.21	29.50	39.50	27.06	--	422.15	--	--	--	--	--	--	--	--
	1/15/2003	--	449.21	29.50	39.50	21.78	--	427.43	--	--	--	--	--	--	--	--
7/9/2003	--	449.21	29.50	39.50	26.18	--	423.03	--	--	--	--	--	--	--	--	
02/19/2004	--	449.21	--	--	23.45	--	425.76	--	--	--	--	--	--	--	--	
08/04/2004	--	451.63	--	--	29.24	--	422.39	--	--	--	--	--	--	--	--	
MW-10	3/20/1995	--	449.22	29.00	37.00	20.96	--	428.26	--	--	--	--	--	--	--	--
	6/2/1995	--	449.22	29.00	37.00	22.15	--	427.07	--	--	--	--	--	--	--	--
	8/23/1995	--	449.22	29.00	37.00	24.47	--	424.75	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	12/4/1995	--	449.22	29.00	37.00	26.97	--	422.25	--	--	--	--	--	--	--	--
	2/20/1996	--	449.22	29.00	37.00	18.40	--	430.82	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1996	--	449.22	29.00	37.00	--	--	--	--	--	--	--	--	--	--	--
	8/13/1996	--	449.22	29.00	37.00	23.70	--	425.52	--	--	--	--	--	--	--	--
	11/13/1996	--	449.22	29.00	37.00	27.15	--	422.07	--	--	--	--	--	--	--	--
	3/26/1997	--	449.22	29.00	37.00	22.23	--	426.99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--
	5/15/1997	--	449.22	29.00	37.00	24.57	--	424.65	--	--	--	--	--	--	--	--
	8/26/1997	--	449.22	29.00	37.00	27.62	--	421.60	--	--	--	--	--	--	--	--
	11/5/1997	--	449.22	29.00	37.00	30.79	--	418.43	--	--	--	--	--	--	--	--
	2/18/1998	--	449.22	29.00	37.00	--	--	--	--	--	--	--	--	--	--	--
5/20/1998	--	449.22	29.00	37.00	--	--	--	--	--	--	--	--	--	--	--	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-10	7/30/1998	--	449.22	29.00	37.00	23.90	--	425.32	--	--	--	--	--	--	--	--
	10/29/1998	--	449.22	29.00	37.00	30.55	--	418.67	--	--	--	--	--	--	--	--
	3/16/1999	P	449.22	29.00	37.00	23.05	--	426.17	<50	<0.5	<0.5	<0.5	<0.5	<3	1	--
	5/5/1999	--	449.22	29.00	37.00	24.00	--	425.22	--	--	--	--	--	--	--	--
	8/26/1999	--	449.22	29.00	37.00	26.50	--	422.72	--	--	--	--	--	--	5.15	--
	12/3/1999	--	449.22	29.00	37.00	30.80	--	418.42	--	--	--	--	--	--	--	--
	3/13/2000	--	449.22	29.00	37.00	26.21	--	423.01	--	--	--	--	--	--	--	--
	6/20/2000	--	449.22	29.00	37.00	23.52	--	425.70	--	--	--	--	--	--	5.5	--
	8/31/2000	--	449.22	29.00	37.00	27.52	--	421.70	--	--	--	--	--	--	--	--
	2/9/2001	--	449.22	29.00	37.00	28.71	--	420.51	--	--	--	--	--	--	--	--
	9/17/2001	--	449.22	29.00	37.00	27.94	--	421.28	--	--	--	--	--	--	--	--
	1/21/2002	--	449.22	29.00	37.00	27.44	--	421.78	--	--	--	--	--	--	--	--
	7/19/2002	--	449.22	29.00	37.00	27.80	--	421.42	--	--	--	--	--	--	--	--
	1/15/2003	--	449.22	29.00	37.00	23.09	--	426.13	--	--	--	--	--	--	--	--
7/9/2003	--	449.22	29.00	37.00	26.87	--	422.35	--	--	--	--	--	--	--	--	
02/19/2004	--	449.22	--	--	23.39	--	425.83	--	--	--	--	--	--	--	--	
MW-11	3/20/1995	--	448.02	29.00	39.00	25.02	--	423.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	6/2/1995	--	448.02	29.00	39.00	23.82	--	424.20	--	--	--	--	--	--	--	
	8/23/1995	--	448.02	29.00	39.00	30.15	--	417.87	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	12/4/1995	--	448.02	29.00	39.00	31.63	--	416.39	--	--	--	--	--	--	--	
	2/20/1996	--	448.02	29.00	39.00	20.94	--	427.08	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	5/15/1996	--	448.02	29.00	39.00	23.03	--	424.99	--	--	--	--	--	--	--	
	8/13/1996	--	448.02	29.00	39.00	29.19	--	418.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	11/13/1996	--	448.02	29.00	39.00	31.96	--	416.06	--	--	--	--	--	--	--	
	3/26/1997	--	448.02	29.00	39.00	26.61	--	421.41	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	5/15/1997	--	448.02	29.00	39.00	29.39	--	418.63	--	--	--	--	--	--	--	
	8/26/1997	--	448.02	29.00	39.00	33.47	--	414.55	<50	<0.5	<0.5	<0.5	<0.5	<3	--	
	11/5/1997	--	448.02	29.00	39.00	35.12	--	412.90	--	--	--	--	--	--	--	
	2/18/1998	--	448.02	29.00	39.00	18.03	--	429.99	<50	<0.5	<0.5	<0.5	1	<3	--	
	5/20/1998	--	448.02	29.00	39.00	23.00	--	425.02	--	--	--	--	--	--	--	
7/30/1998	P	448.02	29.00	39.00	29.30	--	418.72	<50	<0.5	<0.5	<0.5	<0.5	<3	5.59		
10/29/1998	--	448.02	29.00	39.00	34.47	--	413.55	--	--	--	--	--	--	--		
3/16/1999	P	448.02	29.00	39.00	27.88	--	420.14	<50	<0.5	<0.5	<0.5	<0.5	<3	1		

Table 1
Groundwater Elevation and Analytical Data

ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/ TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH
MW-11	5/5/1999	--	448.02	29.00	39.00	26.85	--	421.17	--	--	--	--	--	--	--	--
	8/26/1999	P	448.02	29.00	39.00	32.74	--	415.28	<50	<0.5	<0.5	<0.5	<0.5	<3	4.59	--
	12/3/1999	--	448.02	29.00	39.00	34.70	--	413.32	--	--	--	--	--	--	--	--
	3/13/2000	P	448.02	29.00	39.00	25.94	--	422.08	<50	<0.5	<0.5	<0.5	<1	<3	3.21	--
	6/20/2000	--	448.02	29.00	39.00	30.40	--	417.62	--	--	--	--	--	--	3.3	--
	8/31/2000	NP	448.02	29.00	39.00	32.68	--	415.34	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.4	--
	8/31/2000 b	--	448.02	29.00	39.00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--
	2/9/2001	--	448.02	29.00	39.00	31.17	--	416.85	--	--	--	--	--	--	--	--
	9/17/2001	NP	448.02	29.00	39.00	32.98	--	415.04	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.62	--
	1/21/2002	--	448.02	29.00	39.00	31.05	--	416.97	--	--	--	--	--	--	--	--
	7/19/2002	P	448.02	29.00	39.00	31.67	--	416.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.7	7.7
	1/15/2003	--	448.02	29.00	39.00	23.75	--	424.27	--	--	--	--	--	--	--	--
	7/9/2003	P	448.02	29.00	39.00	31.06	--	416.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.6
	02/19/2004	--	448.02	--	--	27.21	--	420.81	--	--	--	--	--	--	--	--
08/04/2004	P	450.41	--	--	31.71	--	418.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	7.1	
RW-1	3/20/1995	--	451.67	25.50	40.50	23.76	--	427.91	15,000	1,000	140	310	950	--	--	--
	6/2/1995	--	451.67	25.50	40.50	25.12	--	426.55	12,000	1,300	280	420	1,100	--	--	--
	8/23/1995	--	451.67	25.50	40.50	28.80	--	422.87	8,200	520	190	240	610	<50	--	--
	12/4/1995	--	451.67	25.50	40.50	31.15	--	420.52	2,600	140	59	83	210	--	--	--
	2/20/1996	--	451.67	25.50	40.50	21.45	--	430.22	6,300	410	160	180	650	<40	--	--
	5/15/1996	--	451.67	25.50	40.50	22.97	--	428.70	--	--	--	--	--	--	--	--
	8/13/1996	--	451.67	25.50	40.50	24.74	--	426.93	--	--	--	--	--	--	--	--
	11/13/1996	--	451.67	25.50	40.50	30.69	--	420.98	--	--	--	--	--	--	--	--
	3/26/1997	--	451.67	25.50	40.50	25.69	--	425.98	500	57	3	6.4	18	54	--	--
	5/15/1997	--	451.67	25.50	40.50	28.19	--	423.48	--	--	--	--	--	--	--	--
	8/26/1997	--	451.67	25.50	40.50	31.21	--	420.46	--	--	--	--	--	--	--	--
	11/5/1997	--	451.67	25.50	40.50	33.67	--	418.00	--	--	--	--	--	--	--	--
	2/18/1998	--	451.67	25.50	40.50	20.14	--	431.53	9,400	200	70	190	710	<60	--	--
	5/20/1998	--	451.67	25.50	40.50	23.43	--	428.24	--	--	--	--	--	--	--	--
	7/30/1998	--	451.67	25.50	40.50	27.42	--	424.25	--	--	--	--	--	--	--	--
	10/29/1998	--	451.67	25.50	40.50	32.47	--	419.20	--	--	--	--	--	--	--	--
3/16/1999	NP	451.67	25.50	40.50	25.45	--	426.22	1,100	140	19	45	83	530	1	--	
5/5/1999	--	451.67	25.50	40.50	27.23	--	424.44	--	--	--	--	--	--	--	--	

Table 1
Groundwater Elevation and Analytical Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Well No.	Date	P/ NP	Well Elevation TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	GWE (feet)	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DO (mg/L)	pH	
RW-1	8/26/1999	--	451.67	25.50	40.50	29.98	--	421.69	--	--	--	--	--	--	1.39	--	
	12/3/1999	--	451.67	25.50	40.50	32.38	--	419.29	--	--	--	--	--	--	--	--	
	3/13/2000	NP	451.67	25.50	40.50	25.53	--	426.14	1,100	130	3.5	0.7	95	230	4.43	--	
	6/20/2000	--	451.67	25.50	40.50	28.31	--	423.36	--	--	--	--	--	--	1.9	--	
	8/31/2000	NP	451.67	25.50	40.50	30.61	--	421.06	<50.0	<0.500	<0.500	<0.500	<0.500	82.5	3.21	--	
	2/9/2001	NP	451.67	25.50	40.50	31.14	--	420.53	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.84	--	
	9/17/2001	NP	451.67	25.50	40.50	31.70	--	419.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.51	--	
	1/21/2002	NP	451.67	25.50	40.50	30.15	--	421.52	<50	7.7	<0.50	<0.50	1.5	18	0.63	--	
	7/19/2002	NP	451.67	25.50	40.50	31.15	--	420.52	<50	<0.50	<0.50	<0.50	<0.50	13	1.4	6.6	
	1/15/2003	--	451.67	25.50	40.50	22.20	--	429.47	860 a	9	1.6	17	42	1.5	2.8	7.2	
	7/9/2003	--	451.67	25.50	40.50	29.56	--	422.11	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	7.1	
	02/19/2004	NP	451.67	--	--	23.53	--	428.14	<50 c	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.7	
	08/04/2004	P	454.11	--	--	22.45	--	431.66	600	<0.50	<0.50	3.3	3.4	<0.50	4.4	7.2	
	VW-1	8/31/2000	P	--	18.50	28.50	20.61	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	10.08	--
		2/9/2001	P	--	18.50	28.50	22.10	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	0.53	--
9/17/2001		P	--	18.50	28.50	21.99	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	6.59	--	
1/21/2002		P	--	18.50	28.50	21.50	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.7	--	
7/19/2002		P	--	18.50	28.50	22.42	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.9	7.1	
1/15/2003		--	--	18.50	28.50	22.59	--	--	<50	<0.50	<0.50	0.63	1.7	<0.50	5.4	7.2	
7/9/2003		--	--	18.50	28.50	22.50	--	--	<50	<0.50	<0.50	<0.50	0.61	<0.50	2	7	
02/19/2004		--	--	--	--	21.04	--	--	--	--	--	--	--	--	--	--	
08/04/2004		P	453.29	--	--	20.48	--	432.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.7	7.0	

Table 1

Groundwater Elevation and Analytical Data

ARCO Station No. 0771
899 Rincon Ave., Livermore, CA

Abbreviations:

GRO = Gasoline Range Organics, range C4-C12
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter
mg/L = Milligrams per liter
ft bgs = feet below ground surface
-- = Not analyzed or not applicable
< = Not detected at or above the laboratory detection limit
TOC = Top of casing
DTW = Depth to water
GWE = Groundwater elevation measured in feet above mean sea level
DO = Dissolved Oxygen
P = Purge
NP = No purge

Notes:

a = Chromatogram Pattern: Gasoline C6-C10
b = Duplicate sample
c = GRO analyzed by EPA Method 8015B modified

1. For previous historical groundwater elevation and analytical data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 771, Livermore, California. (EMCON, March 1, 1996).
2. Please note that beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as Gasoline (TPH-g) has been changed to Gasoline Range Organics (GRO). The resulting data may be impacted by the potential inclusion of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.
3. All analytes unless otherwise notes utilized EPA Method 8260B, EPA method 8015B modified prior to 1/15/03, and EPA method 8020 prior to 12/03/99.
4. Site wells were resurveyed to NAVD '88 datum on March 8, 2004.

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

Table 2

Fuel Additives Analytical Data

ARCO Station No. 0771
899 Rincon Ave., Livermore, CA

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-2	7/9/2003	<1,000	<200	39	<5.0	<5.0	<5.0	<5.0	<5.0
	08/04/2004	<2,000	<400	78	<10	<10	<10	<10	<10
MW-4	7/9/2003	<1,000	750	150	<5.0	<5.0	<5.0	<5.0	<5.0
	02/19/2004	<1,000	630	180	<10	<10	<10	<5.0	<5.0
	08/04/2004	<2,000	1,300	300	<10	<10	<10	<10	<10
MW-5	7/9/2003	<1,000	1,100	260	<5.0	<5.0	<5.0	<5.0	<5.0
	08/04/2004	<1,000	850	250	<5.0	<5.0	<5.0	<5.0	<5.0
MW-6	7/9/2003	<100	<20	0.98	<0.50	<0.50	<0.50	<0.50	<0.50
	08/04/2004	<100	<20	5.2	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	7/9/2003	<1,000	350	110	<5.0	<5.0	<5.0	<5.0	<5.0
	02/19/2004	<1,000	420	100	<10	<10	<10	<5.0	<5.0
	08/04/2004	<5,000	<1,000	140	<25	<25	<25	<25	<25
MW-11	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	08/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RW-1	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	02/19/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50
	08/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
VW-1	7/9/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	08/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 2

Fuel Additives Analytical Data

ARCO Station No. 0771
899 Rincon Ave., Livermore, CA

Abbreviations:

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 Di-chloroethane

EDB = Ethyl tert-butyl ether

ug/L = micrograms per liter

< = Not detected at or above the laboratory reporting limit

Table 3
Groundwater Gradient Data
 ARCO Station No. 0771
 899 Rincon Ave., Livermore, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/20/1995	Northwest	0.030
6/2/1995	North-Northwest	0.014
8/23/1995	North-Northwest	0.030
12/4/1995	North-Northwest	0.030
2/20/1996	Northwest	0.016
5/15/1996	Northwest	0.024
8/13/1996	North-Northwest	0.030
11/13/1996	North-Northwest	0.031
3/26/1997	North-Northwest	0.044
5/15/1997	North-Northwest	0.031
8/26/1997	North-Northwest	0.042
11/5/1997	North-Northwest	0.030
2/18/1998	Northwest	0.010
5/20/1998	Northwest	0.030
7/30/1998	North	0.040
10/29/1998	North	0.005
3/16/1999	North-Northwest	0.030
5/5/1999	North	0.040
8/26/1999	North-Northwest	0.050
12/3/1999	North-Northeast	0.060
3/13/2000	North-Northwest	0.066
6/20/2000	North-Northwest	0.050
8/31/2000	North-Northwest	0.062
2/9/2001	North-Northeast	0.014
9/17/2001	North-Northwest	0.061
1/21/2002	North-Northwest	0.050
7/19/2002	North-Northwest	0.044
1/15/2003	Northeast to Southeast	0.038 - 0.016
7/9/2003	Northwest to North-Northwest	0.009 - 0.0625
2/19/2004	North	0.044
8/4/2004	Northeast	0.071

The data within this table collected prior to July 2002 was provided to URS by BP Remediation Management and their previous consultants. URS has not verified the accuracy of this information.

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 # 010804-MPI Date 8/4/04 Client Arco 771

Site 899 Rincon Ave., 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 TOB	
MW-1	4					26.36	36.72		
MW-2	4					24.71	33.70		S
MW-3	4					27.40	39.61		
MW-4	4					26.48	41.31		N/A
MW-5	4					26.61	40.19		S
MW-6	4					27.71	43.21		S
MW-7	4					25.92	39.67		S
MW-8	2					34.28	41.52		
MW-9	2					29.24	39.05		
MW-10	2		well is diked over						
OSW-11	2					31.71	38.59		S
RW-1	6					22.45	39.65		MP25.5
VW-1	4					20.48	28.17		S

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>0804-MW1</u>	Station # <u>771</u>
Sampler: <u>MW</u>	Date: <u>8/4/04</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>33.70</u>	Depth to Water: <u>24.71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVO</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

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

<u>5.8</u>	x	<u>3</u>	=	<u>17.4</u> Gals.
I Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
0907	68.7	7.2	1173	6	cloudy, odor
0908	69.1	7.0	1166	12	"
			Well dewatered @	12	Flow 31.12
0940	69.3	7.2	1152	-	clear

Did well dewater? Yes No Gallons actually evacuated: 12

Sampling Time: 0940 Sampling Date: 8/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>0.8</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 090904-MM1	Station # Arco 771
Sampler: MM	Date: 8/4/04
Well I.D.: MW-4	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 41.31	Depth to Water: 26.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YST HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible
 Extraction Pump
 Other: _____

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

$\frac{N_p \odot 26'}{1 \text{ Case Volume (Gals.)}} \times \text{Specified Volumes} = \text{Calculated Volume Gals.}$
--

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
0710	67.8	6.7	1181	-	clear

Did well dewater? Yes No Gallons actually evacuated: -

Sampling Time: 710 Sampling Date: 8/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	<input checked="" type="checkbox"/> Post-purge:	0.7 mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>090204-MW1</u>	Station # <u>77</u>
Sampler: <u>MW</u>	Date: <u>8/4/04</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>40.19</u>	Depth to Water: <u>26.61</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
Other: _____

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

<u>8.8</u>	x	<u>3</u>	=	<u>26.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>0839</u>	<u>68.2</u>	<u>7.0</u>	<u>1115</u>	<u>9</u>	<u>clear</u>
<u>0840</u>	<u>68.4</u>	<u>7.1</u>	<u>1140</u>	<u>18</u>	<u>"</u>
<u>0842</u>	<u>68.7</u>	<u>7.0</u>	<u>1137</u>	<u>27</u>	<u>clear</u>

Did well dewater? Yes (No) Gallons actually evacuated: 27

Sampling Time: 0850 Sampling Date: 8/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
				<u>2.7</u>
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040801-MW1</u>	Station # <u>771</u>
Sampler: <u>MW</u>	Date: <u>8/4/01</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>43.21</u>	Depth to Water: <u>27.71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>AVE</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

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

<u>10.1</u>	x	<u>3</u>	=	<u>30.3</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
<u>0823</u>	<u>67.6</u>	<u>7.2</u>	<u>736</u>	<u>10.5</u>	<u>clear</u>
<u>0824</u>	<u>67.8</u>	<u>7.1</u>	<u>769</u>	<u>21</u>	<u>u</u>
<u>0826</u>	<u>67.6</u>	<u>7.1</u>	<u>815</u>	<u>31.5</u>	<u>clear</u>

Did well dewater? Yes No Gallons actually evacuated: 31.5

Sampling Time: 0830 Sampling Date: 8/4/01

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>3.5</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>040804-MD1</u>	Station # <u>771</u>
Sampler: <u>MMD</u>	Date: <u>8/4/04</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>39.67</u>	Depth to Water: <u>25.92</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible Other: _____
 Extraction Pump
 Other: _____

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

<u>9</u>	x	<u>3</u>	=	<u>27</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
<u>0920</u>	<u>69.5</u>	<u>7.1</u>	<u>1172</u>	<u>9</u>	<u>cloudy, odor!</u>
<u>0921</u>	<u>69.5</u>	<u>7.1</u>	<u>1162</u>	<u>18</u>	<u>''</u>
<u>0923</u>	<u>69.1</u>	<u>7.2</u>	<u>1169</u>	<u>27</u>	<u>cloudy, odor!</u>

Did well dewater? Yes No Gallons actually evacuated: 27

Sampling Time: 0930 Sampling Date: 8/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	<u>0.6</u> mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>0Y0804-MW1</u>	Station # <u>77/</u>
Sampler: <u>MW</u>	Date: <u>8/4/04</u>
Well I.D.: <u>MW-11</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>38.59</u>	Depth to Water: <u>31.71</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible
 Extraction Pump
 Other: _____

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

<u>1.1</u>	x	<u>3</u>	=	<u>3.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
0722	67.5	7.2	873	1.1	cloudy
0725	67.9	7.1	872	2.2	is
0727	68.0	7.1	875	3.3	cloudy

Did well dewater? Yes No Gallons actually evacuated: 3.3

Sampling Time: 0730 Sampling Date: 8/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L <input checked="" type="checkbox"/> Post-purge: <u>2.9</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040804-MMI	Station # Arco 771
Sampler: MM	Date: 8/4/04
Well I.D.: RW-1	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 39.65	Depth to Water: 27.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

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

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

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

<u>25.3</u>	x	<u>3</u>	=	<u>75.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
0802	69.7	7.2	663	25.5	clear
0806	70.2	7.1	659	51	
0810	68.9	7.2	656	76	cloudy

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>76</u>
Sampling Time: <u>0815</u>	Sampling Date: <u>8/4/04</u>
Sample I.D.: <u>RW-1</u>	Laboratory: Pace <u>Sequoya</u> Other _____
Analyzed for: GRO BTEX MTBE DRO Other:	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>4.4</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 040804-MB1	Station # 771
Sampler: MD	Date: 8/4/04
Well I.D.: W-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 28.17	Depth to Water: 20.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Positive Air Displacement Extraction Port
 Electric Submersible
 Extraction Pump
 Other: _____

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

5	x	3	=	15	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
0741	68.5	7.1	680	5	cloudy
0742	69.6	7.0	677	10	"
0743	69.6	7.0	670	15	cloudy

Did well dewater? Yes No Gallons actually evacuated: 15

Sampling Time: 0750 Sampling Date: 8/4/04

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

Analyzed for: GRO BTEX MTBE DRO Other: _____

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

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

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

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

<p style="font-size: 2em; margin: 0;">771</p>	
Station #	
<p style="font-size: 1.2em; margin: 0;">899 Rincon Ave, Livermore</p>	
Station Address	
Total Gallons Collected From Groundwater Monitoring Wells:	
<p style="font-size: 1.5em; margin: 0;">170</p>	
added equip. rinse water _____	any other adjustments _____
TOTAL GALS. RECOVERED <u>170</u>	loaded onto BTS vehicle # <u>59</u>
BTS event # <u>090804-0415</u>	time date <u>1015</u> <u>8/4/92</u>
signature	

REC'D AT _____	time date _____ <u> / / </u>
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.



26 August, 2004

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

RE: ARCO #0771, Livermore, CA
Work Order: MNH0099

Enclosed are the results of analyses for samples received by the laboratory on 08/05/04 16:43. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate #1210

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

Project: ARCO #0771, Livermore, CA
Project Number: INTRIM-50867
Project Manager: Scott Robinson

MNH0099
Reported:
08/26/04 19:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MNH0099-01	Water	08/04/04 09:40	08/05/04 16:43
MW-4	MNH0099-02	Water	08/04/04 07:10	08/05/04 16:43
MW-5	MNH0099-03	Water	08/04/04 08:50	08/05/04 16:43
MW-6	MNH0099-04	Water	08/04/04 08:30	08/05/04 16:43
MW-7	MNH0099-05	Water	08/04/04 09:30	08/05/04 16:43
MW-11	MNH0099-06	Water	08/04/04 07:30	08/05/04 16:43
RW-1	MNH0099-07	Water	08/04/04 08:15	08/05/04 16:43
VW-1	MNH0099-08	Water	08/04/04 07:50	08/05/04 16:43
TB-771-8042004	MNH0099-09	Water	08/04/04 07:50	08/05/04 16:43

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.

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08/26/04 19:29

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MNH0099-01) Water Sampled: 08/04/04 09:40 Received: 08/05/04 16:43									
tert-Amyl methyl ether	ND	10	ug/l	20	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	650	10	"	"	"	"	"	"	
tert-Butyl alcohol	ND	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	160	10	"	"	"	"	"	"	
Methyl tert-butyl ether	78	10	"	"	"	"	"	"	
Toluene	21	10	"	"	"	"	"	"	
Xylenes (total)	56	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	5400	1000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92 %	78-129	"	"	"	"	"	
MW-4 (MNH0099-02) Water Sampled: 08/04/04 07:10 Received: 08/05/04 16:43									
tert-Amyl methyl ether	ND	10	ug/l	20	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	410	10	"	"	"	"	"	"	
tert-Butyl alcohol	1300	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Ethylbenzene	49	10	"	"	"	"	"	"	
Methyl tert-butyl ether	300	10	"	"	"	"	"	"	
Toluene	13	10	"	"	"	"	"	"	
Xylenes (total)	59	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	4200	1000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	78-129	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MNH0099-03) Water Sampled: 08/04/04 08:50 Received: 08/05/04 16:43									
tert-Amyl methyl ether	ND	5.0	ug/l	10	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	250	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	850	200	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	73	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	250	5.0	"	"	"	"	"	"	
Toluene	5.3	5.0	"	"	"	"	"	"	
Xylenes (total)	22	5.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	2100	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90 %	78-129	"	"	"	"	"	
MW-6 (MNH0099-04) Water Sampled: 08/04/04 08:30 Received: 08/05/04 16:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	36	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	17	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	5.2	0.50	"	"	"	"	"	"	
Toluene	3.8	0.50	"	"	"	"	"	"	
Xylenes (total)	24	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	540	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97 %	78-129	"	"	"	"	"	

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 08/26/04 19:29

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-7 (MNH0099-05) Water **Sampled: 08/04/04 09:30** **Received: 08/05/04 16:43**

tert-Amyl methyl ether	ND	25	ug/l	50	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	930	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Ethanol	ND	5000	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Ethylbenzene	460	25	"	"	"	"	"	"	
Methyl tert-butyl ether	140	25	"	"	"	"	"	"	
Toluene	29	25	"	"	"	"	"	"	
Xylenes (total)	130	25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	9100	2500	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

92 % 78-129

MW-11 (MNH0099-06) Water **Sampled: 08/04/04 07:30** **Received: 08/05/04 16:43**

tert-Amyl methyl ether	ND	0.50	ug/l	1	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

94 % 78-129

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MNH0099-07) Water Sampled: 08/04/04 08:15 Received: 08/05/04 16:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	3.3	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	3.4	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	600	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	78-129	"	"	"	"	"	
VW-1 (MNH0099-08) Water Sampled: 08/04/04 07:50 Received: 08/05/04 16:43									
tert-Amyl methyl ether	ND	0.50	ug/l	1	4H18002	08/18/04	08/18/04	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	IC
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94 %	78-129	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H18002 - EPA 5030B P/T
Blank (4H18002-BLK1)

Prepared & Analyzed: 08/18/04

tert-Amyl methyl ether	ND	0.50	ug/l							
Benzene	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
Di-isopropyl ether	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
Ethanol	ND	100	"							IC
Ethyl tert-butyl ether	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.57		"	5.00		91	78-129			

Laboratory Control Sample (4H18002-BS1)

Prepared & Analyzed: 08/18/04

tert-Amyl methyl ether	10.8	0.50	ug/l	10.0		108	82-140			
Benzene	10.6	0.50	"	10.0		106	69-124			
tert-Butyl alcohol	53.6	20	"	50.0		107	56-131			
Di-isopropyl ether	10.3	0.50	"	10.0		103	76-130			
1,2-Dibromoethane (EDB)	10.6	0.50	"	10.0		106	77-132			
1,2-Dichloroethane	9.58	0.50	"	10.0		96	77-136			
Ethanol	138	100	"	200		69	31-143			IC
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	81-121			
Ethylbenzene	11.0	0.50	"	10.0		110	84-132			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	63-137			
Toluene	11.0	0.50	"	10.0		110	78-129			
Xylenes (total)	31.2	0.50	"	30.0		104	83-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.54		"	5.00		91	78-129			

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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 4H18002 - EPA 5030B P/T										
Laboratory Control Sample (4H18002-BS2)				Prepared & Analyzed: 08/18/04						
Gasoline Range Organics (C4-C12)	419	50	ug/l	440		95	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.63</i>		"	<i>5.00</i>		<i>93</i>	<i>78-129</i>			
Laboratory Control Sample Dup (4H18002-BSD1)				Prepared & Analyzed: 08/18/04						
tert-Amyl methyl ether	12.6	0.50	ug/l	10.0		126	82-140	15	20	
Benzene	9.97	0.50	"	10.0		100	69-124	6	20	
tert-Butyl alcohol	54.1	20	"	50.0		108	56-131	0.9	20	
Di-isopropyl ether	11.6	0.50	"	10.0		116	76-130	12	20	
1,2-Dibromoethane (EDB)	11.6	0.50	"	10.0		116	77-132	9	20	
1,2-Dichloroethane	8.27	0.50	"	10.0		83	77-136	15	20	
Ethanol	139	100	"	200		70	31-143	0.7	20	
Ethyl tert-butyl ether	11.3	0.50	"	10.0		113	81-121	7	20	
Ethylbenzene	13.1	0.50	"	10.0		131	84-132	17	20	
Methyl tert-butyl ether	8.98	0.50	"	10.0		90	63-137	12	20	
Toluene	18.6	0.50	"	10.0		186	78-129	51	20	HL, BA
Xylenes (total)	35.2	0.50	"	30.0		117	83-137	12	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>3.66</i>		"	<i>5.00</i>		<i>73</i>	<i>78-129</i>			<i>LG</i>
Matrix Spike (4H18002-MS1)				Source: MNH0099-05		Prepared: 08/18/04 Analyzed: 08/19/04				
Benzene	1240	25	ug/l	320	930	97	69-124			
Ethylbenzene	907	25	"	348	460	128	84-132			
Methyl tert-butyl ether	638	25	"	496	140	100	63-137			
Toluene	2040	25	"	1480	29	136	78-129			HL
Xylenes (total)	2340	25	"	1680	130	132	83-137			
Gasoline Range Organics (C4-C12)	26800	2500	"	22000	9100	80	70-124			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.69</i>		"	<i>5.00</i>		<i>94</i>	<i>78-129</i>			
Matrix Spike Dup (4H18002-MSD1)				Source: MNH0099-05		Prepared: 08/18/04 Analyzed: 08/19/04				
Benzene	1150	25	ug/l	320	930	69	69-124	8	20	
Ethylbenzene	992	25	"	348	460	153	84-132	9	20	LM
Methyl tert-butyl ether	570	25	"	496	140	87	63-137	11	20	
Toluene	2520	25	"	1480	29	168	78-129	21	20	HL, BA
Xylenes (total)	2470	25	"	1680	130	139	83-137	5	20	LM
Gasoline Range Organics (C4-C12)	30000	2500	"	22000	9100	95	70-124	11	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.27</i>		"	<i>5.00</i>		<i>85</i>	<i>78-129</i>			

Sequoia Analytical - Morgan Hill

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

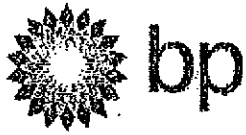
URS Corporation [Arco]
1333 Broadway, Suite 800
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MNH0099
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Notes and Definitions

LM MS and/or MSD above acceptance limits. See Blank Spike(LCS).
LG Surrogate recovery below the acceptance limits.
IC Calib. verif. is within method limits but outside contract limits
HL Analyte recovery above established limit
BA Relative percent difference out of control
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference



Chain of Custody Record

Project Name 771 GWM
 BP BU/GEM CO Portfolio Retail

MNH 6099

BP Laboratory Contract Number: Atlantic Richfield Company 461006

Date: 8/4/04

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

On-site Time: <u>545</u>	Temp: <u>60</u>
Off-site Time: <u>1015</u>	Temp: <u>65</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

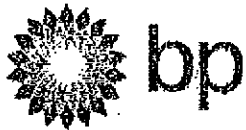
Send To:	BP/GEM Facility No.: <u>ARCO 771</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>899 RINCON AVE, LIVERMORE, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>.885 Jarvis Dr.</u> <u>Morgan Hill, CA 95037</u>	Site ID No. <u>ARCO 771</u>	<u>Oakland, CA 94612</u>
	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
	California Global ID #: <u>T0600100113</u>	Consultant/Contractor Project No.: <u>J5-00000771.01 00427</u>
Lab PM <u>Lisa Race</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Tele/Fax: <u>408-778-9600 / 408-782-6308</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
Report Type & QC Level: <u>I Send EDF Reports</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax: <u>925-299-8881/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50867</u>

Item No.	Sample Description	Time <u>8/4/04</u>	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	CRO / BTEX (8015)	DRO w/SOC (8015)	MTBE (8021)	MTBE (8260)	MTBE, TAME, ETBE DIPE, TBA, (8260)	1,2-DCA & EDB (8260)	Ethanol (8260)	
1	MW-2	0710	X				1	3					X			X	X	X		
2	MW-4	0710	X				2	3					X			X	X	X		
3	MW-5	0850	X				3	3					X			X	X	X		
4	MW-6	0830	X				4	3					X			X	X	X		
5	MW-7	0930	X				5	3					X			X	X	X		
6	MW-11	0730	X				6	2					X			X	X	X		
7	RW-1	0815	X				7	2					X			X	X	X		
8	UW-1	0730	X				8	3					X			X	X	X		
9	TB-771-8042004		X				9	3					X			X	X	X	<u>HOLD</u>	
10																				

Sampler's Name: <u>Blaine Tech / John DeBay</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Blaine Tech</u>	<u>[Signature]</u>	<u>8/5/04</u>	<u>1545</u>	<u>[Signature]</u>	<u>8/5/04</u>	<u>1545</u>
Shipment Date:	<u>[Signature]</u>	<u>8/5/04</u>	<u>1643</u>	<u>[Signature]</u>	<u>8/5/04</u>	<u>1643</u>
Shipment Method:						
Shipment Tracking No:						

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

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



Chain of Custody Record

Project Name 771 GWM
BP BU/GEM CO Portfolio Retail

MNH 0099

BP Laboratory Contract Number: Atlantic Richfield Company 461000

Date: 8/4/04

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

On-site Time: <u>5:45</u>	Temp: <u>60</u>
Off-site Time: <u>6:15</u>	Temp: <u>65</u>
Sky Conditions: <u>Clear</u>	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.: <u>ARCO 771</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>899 RINCON AVE, LIVERMORE, CA</u>	Address: <u>1333 Broadway, Suite 800</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>ARCO 771</u>	<u>Oakland, CA 94612</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Lab PM <u>Lisa Race</u>	California Global ID #: <u>T0600100113</u>	Consultant/Contractor Project No.: <u>15-00000771.01 00427</u>
Tele/Fax: <u>408-778-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>I Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/GEM Account No.:	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No: <u>INTRIM -50867</u>

Item No.	Sample Description	Time <u>08/04</u>	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis							Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	GRO/BTEX <u>(8260)</u>	DRO w/SGC <u>(8015)</u>	MTBE <u>(8021)</u>	MTBE <u>(8260)</u>	MTBE, TAME, ETBE DIPE, TBA <u>(8260)</u>	1,2-DCA & EDB <u>(8260)</u>	Ethanol <u>(8260)</u>	
1	MW-2	0910	X				1	3					X			X	X	X		
2	MW-4	0710	X				2	3					X			X	X	X		
3	MW-5	0850	X				3	3					X			X	X	X		
4	MW-6	0830	X				4	3					X			X	X	X		
5	MW-7	0930	X				5	3					X			X	X	X		
6	MW-11	0730	X				6	2					X			X	X	X		
7	RW-1	0815	X				7	3					X			X	X	X		
8	UW-1	0750	X				8	3					X			X	X	X		
9	TB-771-8042004		X				9	3					X			X	X	X	HOLD	
10																				

Sampler's Name: <u>Blaine Tech/John DeBay</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Blaine Tech</u>	<u>[Signature]</u>	<u>8/3/04</u>	<u>1545</u>	<u>[Signature]</u>	<u>8/5/04</u>	<u>1545</u>
Shipment Date:	<u>[Signature]</u>	<u>8/5/04</u>	<u>1643</u>	<u>Keavany</u>	<u>8/5/04</u>	<u>1643</u>
Shipment Method:						
Shipment Tracking No.:						

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

Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 6 °F (C) Trip Blank Yes No

ATTACHMENT C
EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

08/30/04

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #0771, Livermore, CA
Work Order Number:	MNH0099
Global ID:	T0600100113
Lab Report Number:	MNH0099082620041929

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Labiotctl	Run	Sub
MNH0099082620 041929	MW-11	MNH009906	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	MW-2	MNH009901	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	MW-4	MNH009902	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	MW-5	MNH009903	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	MW-6	MNH009904	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	MW-7	MNH009905	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	RW-1	MNH009907	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
MNH0099082620 041929	VW-1	MNH009908	W	CS	8260FA	SW5030B	08/04/04	08/18/04	08/18/04	4H18002	1	
		4H18002BSD1	WQ	BD1	8260FA	SW5030B	//	08/18/04	08/18/04	4H18002	1	
		4H18002BS1	WQ	BS1	8260FA	SW5030B	//	08/18/04	08/18/04	4H18002	1	
		4H18002BS2	WQ	BS2	8260FA	SW5030B	//	08/18/04	08/18/04	4H18002	1	
		4H18002BLK1	WQ	LB1	8260FA	SW5030B	//	08/18/04	08/18/04	4H18002	1	
		4H18002MS1	W	MS1	8260FA	SW5030B	//	08/18/04	08/19/04	4H18002	1	
		4H18002MSD1	W	SD1	8260FA	SW5030B	//	08/18/04	08/19/04	4H18002	1	

EDFSAMP: Error Summary Log

08/30/04

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

EDFTEST: Error Summary Log

08/30/04

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

EDFRES: Error Summary Log

08/30/04

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	4H18002MS1	MS1	W	8260FA	PR	08/19/04	1	BZ
Warning: extra parameter	4H18002MS1	MS1	W	8260FA	PR	08/19/04	1	BZME
Warning: extra parameter	4H18002MS1	MS1	W	8260FA	PR	08/19/04	1	DCA12D4
Warning: extra parameter	4H18002MS1	MS1	W	8260FA	PR	08/19/04	1	EBZ
Warning: extra parameter	4H18002MS1	MS1	W	8260FA	PR	08/19/04	1	GROC4C12
Warning: extra parameter	4H18002MS1	MS1	W	8260FA	PR	08/19/04	1	XYLENES
Warning: extra parameter	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	BZ
Warning: extra parameter	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	BZME
Warning: extra parameter	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	DCA12D4
Warning: extra parameter	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	EBZ
Warning: extra parameter	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	GROC4C12
Warning: extra parameter	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	XYLENES
Warning: extra parameter	MNH009901	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009901	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009901	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009901	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009901	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009901	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	MNH009902	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009902	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009902	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009902	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009902	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009902	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	MNH009903	CS	W	8260FA	PR	08/18/04	1	BZ

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNH009903	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009903	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009903	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009903	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009903	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	MNH009904	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009904	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009904	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009904	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009904	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009904	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	MNH009905	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009905	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009905	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009905	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009905	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009905	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	MNH009906	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009906	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009906	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009906	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009906	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009906	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	MNH009907	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009907	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009907	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009907	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009907	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009907	CS	W	8260FA	PR	08/18/04	1	XYLENES

Error type	Labsampid	Qcocode	Matrix	Amrcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MNH009908	CS	W	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	MNH009908	CS	W	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	MNH009908	CS	W	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	MNH009908	CS	W	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	MNH009908	CS	W	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	MNH009908	CS	W	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	4H18002BLK1	LB1	WQ	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	4H18002BLK1	LB1	WQ	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	4H18002BLK1	LB1	WQ	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	4H18002BLK1	LB1	WQ	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	4H18002BLK1	LB1	WQ	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	4H18002BLK1	LB1	WQ	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	4H18002BS1	BS1	WQ	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	4H18002BS1	BS1	WQ	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	4H18002BS1	BS1	WQ	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	4H18002BS1	BS1	WQ	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	4H18002BS1	BS1	WQ	8260FA	PR	08/18/04	1	XYLENES
Warning: extra parameter	4H18002BS2	BS2	WQ	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	4H18002BS2	BS2	WQ	8260FA	PR	08/18/04	1	GROC4C12
Warning: extra parameter	4H18002BSD1	BD1	WQ	8260FA	PR	08/18/04	1	BZ
Warning: extra parameter	4H18002BSD1	BD1	WQ	8260FA	PR	08/18/04	1	BZME
Warning: extra parameter	4H18002BSD1	BD1	WQ	8260FA	PR	08/18/04	1	DCA12D4
Warning: extra parameter	4H18002BSD1	BD1	WQ	8260FA	PR	08/18/04	1	EBZ
Warning: extra parameter	4H18002BSD1	BD1	WQ	8260FA	PR	08/18/04	1	XYLENES
Error: LNOTE has an invalid note	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	EBZ
Error: LNOTE has an invalid note	4H18002MSD1	SD1	W	8260FA	PR	08/19/04	1	XYLENES
Error: LNOTE has an invalid note	4H18002BSD1	BD1	WQ	8260FA	PR	08/18/04	1	DCA12D4

EDFQC: Error Summary Log

08/30/04

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

EDFCL: Error Summary Log

08/30/04

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

Electronic Submittal Information

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Your EDF file has been successfully uploaded!

Confirmation Number: 7134835362
Date/Time of Submittal: 8/30/2004 12:34:18 PM
Facility Global ID: T0600100113
Facility Name: ARCO # 00771
Submittal Title: 3Q04 Groundwater Data Site #771
Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

ARCO # 00771 899 RINCON AVE LIVERMORE, CA 94550	Regional Board - Case #: 01-0121 SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) Local Agency (lead agency) - Case #: 3873 ALAMEDA COUNTY LOP - (UNK)
--	--

CONF #	TITLE	QUARTER
7134835362	3Q04 Groundwater Data Site #771	Q3 2004
SUBMITTED BY	SUBMIT DATE	STATUS
Srijesh Thapa	8/30/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	8
# FIELD POINTS WITH DETECTIONS	6
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	6
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	8260FA
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- 8260FA REQUIRES DBFM TO BE TESTED	
- 8260FA REQUIRES BR4FBZ TO BE TESTED	
- 8260FA REQUIRES BZMED8 TO BE TESTED	
LAB NOTE DATA QUALIFIERS	Y

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	N
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	N

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
---	-----

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE ADMINISTRATOR

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

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

Submittal Title: 3Q04 Geowell Data for Site # 771

Submittal Date/Time: 8/30/2004 1:53:09 PM

Confirmation Number: 3616988956

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Logged in as URSCORP-OAKLAND
(CONTRACTOR)

[CONTACT SITE ADMINISTRATOR](#)

ATTACHMENT D
WELL SURVEY DATA

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION ft	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT
T0600100113	MW-1	3/8/2004	454.23	CGPS	88	0.02	URS	-0.23
T0600100113	MW-10	3/8/2004	451.65	CGPS	88	0.02	URS	-0.43
T0600100113	MW-11	3/8/2004	450.41	CGPS	88	0.02	URS	-0.63
T0600100113	MW-2	3/8/2004	452.05	CGPS	88	0.02	URS	-0.40
T0600100113	MW-3	3/8/2004	452.75	CGPS	88	0.02	URS	-0.27
T0600100113	MW-4	3/8/2004	453.80	CGPS	88	0.02	URS	-0.53
T0600100113	MW-5	3/8/2004	453.52	CGPS	88	0.02	URS	-1.02
T0600100113	MW-6	3/8/2004	453.83	CGPS	88	0.02	URS	-0.28
T0600100113	MW-7	3/8/2004	452.70	CGPS	88	0.02	URS	-1.05
T0600100113	MW-8	3/8/2004	451.80	CGPS	88	0.02	URS	-0.46
T0600100113	MW-9	3/8/2004	451.63	CGPS	88	0.02	URS	-0.33
T0600100113	RW-1	3/8/2004	454.11	CGPS	88	0.02	URS	-0.32
T0600100113	VW-1	3/8/2004	453.29	CGPS	88	0.02	URS	-0.37

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_
T0600100113	MW-1	MW	3/8/2004	37.6880637	-121.7838004	CGPS	NAD83	0.02	URS
T0600100113	MW-10	MW	3/8/2004	37.6877154	-121.7833182	CGPS	NAD83	0.02	URS
T0600100113	MW-11	MW	3/8/2004	37.6884229	-121.7838194	CGPS	NAD83	0.02	URS
T0600100113	MW-2	MW	3/8/2004	37.6879588	-121.7835072	CGPS	NAD83	0.02	URS
T0600100113	MW-3	MW	3/8/2004	37.6881943	-121.7835377	CGPS	NAD83	0.02	URS
T0600100113	MW-4	MW	3/8/2004	37.6879687	-121.7836411	CGPS	NAD83	0.02	URS
T0600100113	MW-5	MW	3/8/2004	37.6879954	-121.7837764	CGPS	NAD83	0.02	URS
T0600100113	MW-6	MW	3/8/2004	37.6881999	-121.7837636	CGPS	NAD83	0.02	URS
T0600100113	MW-7	MW	3/8/2004	37.6880590	-121.7835933	CGPS	NAD83	0.02	URS
T0600100113	MW-8	MW	3/8/2004	37.6884648	-121.7832801	CGPS	NAD83	0.02	URS
T0600100113	MW-9	MW	3/8/2004	37.6880794	-121.7833159	CGPS	NAD83	0.02	URS
T0600100113	RW-1	MW	3/8/2004	37.6880689	-121.7837751	CGPS	NAD83	0.02	URS
T0600100113	VW-1	MW	3/8/2004	37.6881437	-121.7835914	CGPS	NAD83	0.02	URS

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