

2020



Atlantic Richfield Company  
(a BP affiliated company)

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



Alameda County  
AUG 29 2003  
Environmental Health

August 15, 2003

Re: Second Semi-Annual 2003 Groundwater Monitoring Report  
ARCO Station #771  
899 Rincon Ave  
Livermore, CA

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

Submitted by:

Paul Supple  
Environmental Business Manager



August 15, 2003

Mr. Scott Seery  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Alameda County  
AUG 29 2003  
Environmental Health

**Re: Second Semi-Annual 2003 Groundwater Monitoring Report  
ARCO Service Station #0771  
899 Rincon Avenue  
Livermore, California  
URS Project #38486316**

Dear Mr. Seery:

On behalf of Atlantic Richfield Company (ARCO – an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Second Semi-Annual 2003 Groundwater Monitoring Report* for ARCO Service Station #0771, located at 899 Rincon Avenue, Livermore, California.

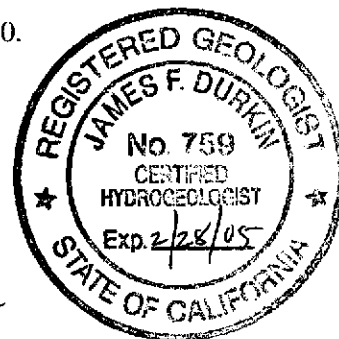
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

**URS CORPORATION**

Scott Robinson  
Project Manager

James F. Durkin, C.Hg.  
Senior Geologist



Enclosure: Second Semi-Annual 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic 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**

**SECOND SEMI-ANNUAL 2003  
GROUNDWATER MONITORING**

ARCO SERVICE STATION #0771  
899 RINCON AVENUE  
LIVERMORE, CALIFORNIA

*Prepared for*  
Atlantic Richfield Company

August 15, 2003

**URS**

URS Corporation  
500 12th Street, Suite 200  
Oakland, California 94607

38486316



Date: August 15, 2003

Quarter: 3Q 03

### ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0771 Address: 899 Rincon Avenue, Livermore, California  
Atlantic Richfield Co. Environmental Engineer: Paul Supple  
Consulting Co./Contact Person: URS Corporation / Scott Robinson  
Consultant Project No.: 38486316  
Primary Agency: Alameda County Health Care Service Agency (ACHCSA)

#### WORK PERFORMED THIS QUARTER (Third – 2003):

1. Performed third quarter 2003 groundwater monitoring event on July 9, 2003.
2. Prepared and submitted second semi-annual 2003 groundwater monitoring report.
3. Prepare and submit well survey report by the end of the quarter.

#### WORK PROPOSED FOR NEXT QUARTER (Fourth – 2003):

1. No environmental work is scheduled for fourth quarter 2003.

Current Phase of Project: GW monitoring/sampling  
Frequency of Groundwater Sampling: Annual (3rd Qtr): MW-2, MW-5, MW-11  
Semi-Annual (1st/3rd Qtr): MW-4, MW-6, MW-7, RW-1, VW-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: 22.50 (VW-1) to 33.10 (MW-8) feet  
Groundwater Gradient (direction): Northwest to North-northwest  
Groundwater Gradient (magnitude): 0.009 - 0.0625 feet per foot

**DISCUSSION:**

TPH-g was detected in five of the eight wells sampled this quarter at concentrations ranging from 110 µg/L (MW-6) to 6,700 µg/L (MW-7). Benzene was detected in four wells at concentrations ranging from 160 µg/L (MW-5) to 590 µg/L (MW-7). MTBE was detected in five wells at concentrations ranging from 0.98 µg/L (MW-6) to 260 µg/L (MW-5). Tert-butyl alcohol (TBA) was detected in three wells at concentrations of 350 µg/L (MW-7), 750 µg/L (MW-4) and 1,100 µg/L (MW-5).

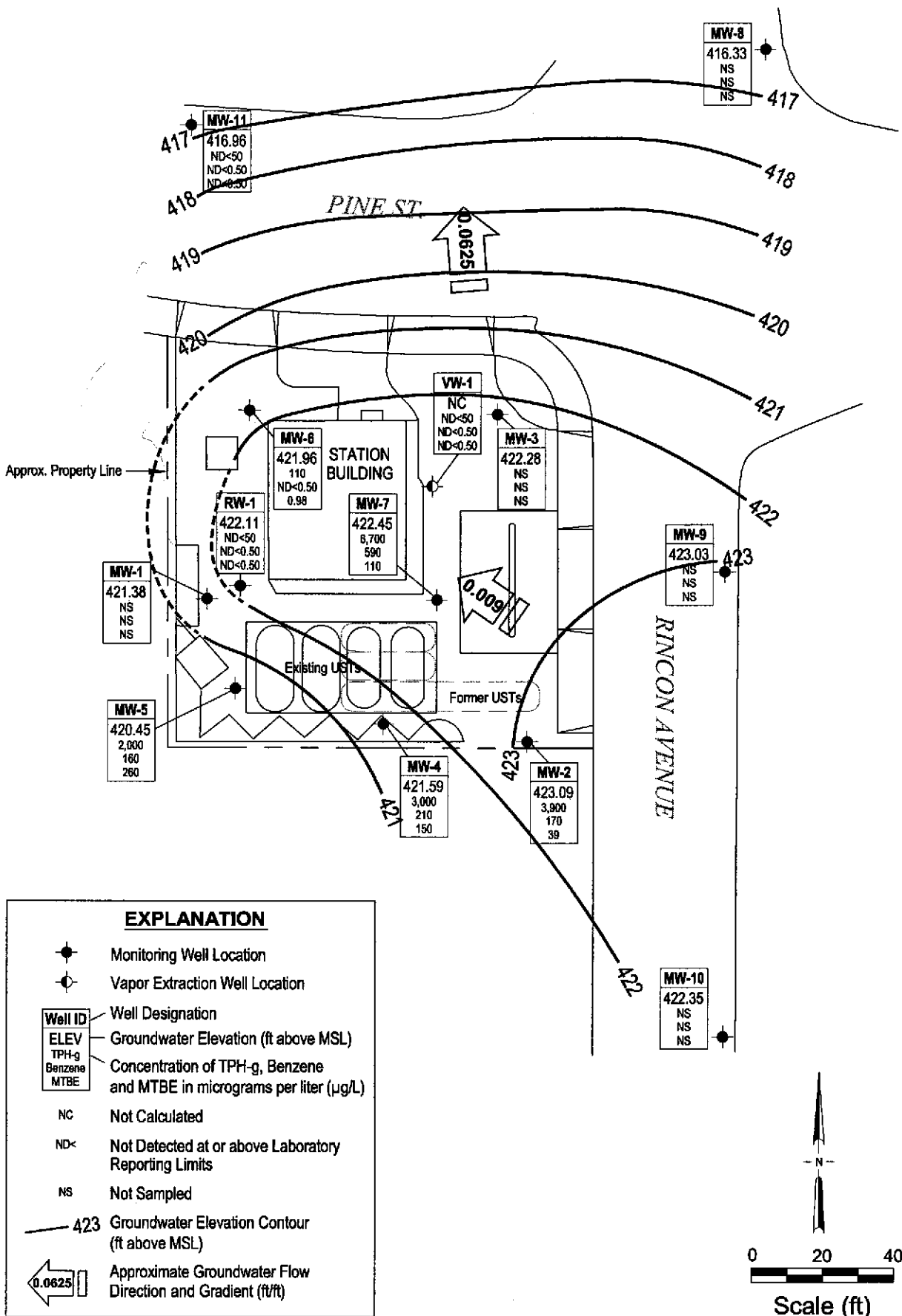
**RECOMMENDATIONS:**

We recommend reducing the sampling frequency of wells MW-6 and VW-1 from semi-annual to annual. Both wells have consistently had low to non-detect values for the constituents of concern. Both wells are upgradient and/or cross-gradient from the impacted area at the site.

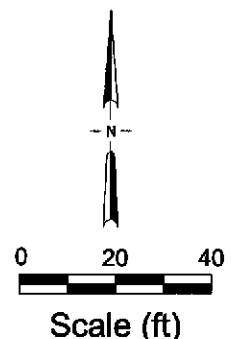
**ATTACHMENTS:**

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – July 9, 2003
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Groundwater Flow Direction and Gradient
- Table 3 – 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

X:\x\_env\waste\BFGEM\Sites\Scott Robinson\Paul\_Supp\0771\Monitoring\Qtr-3\_2003\Drawings\GWEC-AS\_7-9.dwg, 08/19/2003 10:16:22 AM, JKMT, URS



EXPLANATION	
	Monitoring Well Location
	Vapor Extraction Well Location
<b>Well ID</b>	Well Designation
<b>ELEV</b>	Groundwater Elevation (ft above MSL)
<b>TPH-g</b> <b>Benzene</b> <b>MTBE</b>	Concentration of TPH-g, Benzene and MTBE in micrograms per liter (µg/L)
NC	Not Calculated
ND<	Not Detected at or above Laboratory Reporting Limits
NS	Not Sampled
	423 Groundwater Elevation Contour (ft above MSL)
	Approximate Groundwater Flow Direction and Gradient (ft/ft)



Project No. 38486316  
 ARCO Service Station 0771  
 899 Rincon Avenue  
 Livermore, California

**GROUNDWATER ELEVATION CONTOUR  
 AND ANALYTICAL SUMMARY MAP**  
 Third Quarter 2003 (July 9, 2003)

FIGURE  
 1

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
MW-1	03/20/95	--	451.73	24.50	427.23	90,000	1,800	1,100	1,000	5,600	--	--	--	
	06/02/95	--		25.60	426.13	81,000	2,000	1,400	990	4,600	--	--	--	
	08/23/95	--		29.04	422.69	44,000	2,400	1,900	670	3,800	ND<300	--	--	
	12/04/95	--		31.31	420.42	22,000	870	660	390	2,200	--	--	--	
	02/20/96	--		22.26	429.47	21,000	1,500	1,200	650	3,500	ND<300	--	--	
	05/15/96	--		23.42	428.31	36,000	3,000	2,500	960	5,700	ND<250	--	--	
	08/13/96	--		26.83	424.90	19,000	730	580	450	2,500	ND<200	--	--	
	11/13/96	--		31.05	420.68	6,600	47	16	74	160	ND<30	--	--	
	03/26/97	--		26.29	425.44	1,900	100	55	37	200	ND<30	--	--	
	05/15/97	--		28.65	423.08	16,000	490	250	250	1,100	ND<120	--	--	
	08/26/97	--		31.53	420.20	190	7	3	6	25	ND<3	--	--	
	11/05/97	--		33.93	417.80	63	1	ND<0.5	1	2	29	--	--	
	02/18/98	--		20.46	431.27	23,000	1,500	610	550	3,000	ND<120	--	--	
	05/20/98	--		23.84	427.89	50,000	4,400	1,900	1,400	80,000	ND<300	--	--	
	07/30/98	P		26.94	424.79	150	ND<0.5	ND<0.5	ND<0.5	2	ND<3	8.7	--	
	10/29/98	NP		32.58	419.15	ND<50	ND<0.5	ND<0.5	ND<0.5	2	ND<3	2.0	--	
	03/16/99	P		26.20	425.53	3,200	160	32	89	390	270	2.0	--	
	05/05/99	P		27.57	424.16	3,600	140	46	76	290	170	11.65	--	
	08/26/99	P		30.25	421.48	3,200	210	29	100	220	120	1.43	--	
	12/03/99	NP		32.70	419.03	53	ND<0.5	ND<0.5	ND<0.5	1	ND<3	2.12	--	
03/13/00	P		24.45	427.28	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	5.81	--		
DUP	06/20/00	--	--	--	--	67.4	3.88	ND<0.500	1.78	1.48	ND<2.50	--	--	
	06/20/00	P		27.79	423.94	356	40.1	7.17	11.9	22.7	ND<2.50	5.10	--	
	08/31/00			30.35	421.38	Not sampled: well no longer part of sampling schedule								
	02/09/01			30.95	420.78	Not sampled: well no longer part of sampling schedule								
	09/17/01			30.85	420.88	Not sampled: well no longer part of sampling schedule								
	01/21/02			30.61	421.12	Not sampled: well no longer part of sampling schedule								
	07/19/02			31.55	420.18	Not sampled: well no longer part of sampling schedule								
	1/15/03 <sup>2</sup>			22.99	428.74	Not sampled: well no longer part of sampling schedule								
	07/09/03			30.35	421.38	Not sampled: well no longer part of sampling schedule								

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater				Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level
					Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-2	03/20/95	--	449.49	20.27	429.22	54,000	2,600	1,600	1,200	7,600	--	--	--
	06/02/95	--		22.32	427.17	37,000	2,200	800	980	4,800	--	--	--
	08/23/95	--		25.69	423.80	65,000	1,100	310	840	3,000	ND<500	--	--
	12/04/95	--		28.52	420.97	19,000	680	150	410	1,600	--	--	--
	02/20/96	--		19.00	430.49	22,000	1,200	240	590	2,200	ND<300	--	--
	05/15/96	--		20.03	429.46	25,000	1,200	240	610	2,100	ND<300	--	--
	08/13/96	--		24.44	425.05	19,000	640	110	420	1,200	ND<300	--	--
	11/13/96	--		28.42	421.07	15,000	260	52	220	640	ND<200	--	--
	03/26/97	--		22.98	426.51	17,000	580	120	360	980	ND<120	--	--
	05/15/97	--		25.40	424.09	18,000	420	63	340	730	ND<120	--	--
	08/26/97	--		28.38	421.11	5,300	210	26	140	270	ND<120	--	--
	11/05/97	--		31.93	417.56	560	42	3	7	9	ND<40	--	--
	02/18/98	--		16.87	432.62	18,000	710	120	480	1,100	130	--	--
	05/20/98	--		20.29	429.20	16,000	480	72	440	1,100	ND<120	--	--
	07/30/98	P		23.51	425.98	9,700	240	33	210	490	ND<120	9.2	--
	10/29/98	NP		30.08	419.41	58	ND<0.5	ND<0.5	ND<0.5	1	ND<3	1.0	--
	03/16/99	P		23.22	426.27	4,700	120	13	90	220	60	2.0	--
	05/05/99	P		24.05	425.44	5,500	58	7.1	58	98	17	9.09	--
	08/26/99	P		26.44	423.05	3,700	55	11	60	64	26	1.90	--
	12/03/99	NP		30.15	419.34	130	ND<0.5	ND<0.5	0.7	1.8	ND<3	1.96	--
	03/13/00	P		20.68	428.81	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	--	--
	06/20/00	P		23.08	426.41	226	2.20	ND<0.500	4.83	7.88	ND<2.50	4.90	--
	08/31/00	P		26.71	422.78	87.1	1.78	ND<0.500	1.33	1.15	ND<2.50	1.59	--
	02/09/01			29.65	419.84	Not sampled: well sampled annually, during the third quarter							
	09/17/01	P		27.62	421.87	3,100	300	12	8.8	18	120	1.70	--
	01/21/02			27.09	422.40	Not sampled: well sampled annually, during the third quarter							
	07/19/02	P		27.82	421.67	4,700 <sup>1</sup>	280	13	120	19	16	0.8	7.4
	1/15/03 <sup>2</sup>			22.18	427.31	Not sampled: well sampled annually, during the third quarter							
	07/09/03	P		26.40	423.09	3,900	170	ND<5.0	100	19	39	2.5	7.0



**Table 1**  
**Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
MW-3	03/20/95	--	450.28	22.19	428.09	94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	
	06/02/95	--		23.28	427.00	72	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	
	08/23/95	--		26.55	423.73	98	ND<0.5	ND<0.5	ND<0.6	1	ND<3	--	--	
	12/04/95	--		29.52	420.76	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	
	02/20/96	--		19.83	430.45	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/15/96	--		21.03	429.25	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	
	08/13/96	--		25.67	424.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	11/13/96	--		21.57	428.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	03/26/97	--		24.15	426.13	ND<50	1	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/15/97	--		26.85	423.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	08/26/97	--		30.07	420.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	11/05/97	--		32.46	417.82	ND<50	ND<0.5	1	ND<0.5	ND<0.5	ND<3	--	--	
	02/18/98	--		17.82	432.46	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/20/98	--		21.41	428.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	07/30/98	P		26.41	423.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	9.6	--	
	10/29/98	P		31.33	418.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	1.0	--	
	03/16/99	P		24.61	425.67	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	1.0	--	
	05/05/99	P		25.75	424.53	140	ND<0.5	ND<0.5	0.6	ND<0.5	ND<3	4.43	--	
	08/26/99	P		28.49	421.79	80	0.6	0.6	0.6	1	ND<3	1.69	--	
	12/03/99	P		31.45	418.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	2.26	--	
	03/13/00	P		22.18	428.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	4.41	--	
	06/20/00	P		26.03	424.25	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	2.30	--	
	08/31/00			28.75	421.53	Not sampled: well no longer part of sampling schedule								
	02/09/01			31.04	419.24	Not sampled: well no longer part of sampling schedule								
	09/17/01			29.04	421.24	Not sampled: well no longer part of sampling schedule								
	01/21/02			28.81	421.47	Not sampled: well no longer part of sampling schedule								
	07/19/02			28.92	421.36	Not sampled: well no longer part of sampling schedule								
	1/15/03 <sup>2</sup>			22.88	427.40	Not sampled: well no longer part of sampling schedule								
	07/09/03			28.00	422.28	Not sampled: well no longer part of sampling schedule								

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
MW-4	03/20/95	--	451.09	22.68	428.41	12,000	1,000	100	450	700	--	--	--	
	06/02/95	--		24.41	426.68	9,000	850	56	380	430	--	--	--	
	08/23/95	--		27.72	423.37	5,300	400	25	240	170	ND<100	--	--	
	12/04/95	--		29.85	421.24	6,700	100	ND<10	90	38	--	--	--	
	02/20/96	--		21.16	429.93	7,000	360	22	180	160	ND<70	--	--	
	05/15/96			22.18	428.91	Not sampled: well sampled annually, during the first quarter								
	08/13/96			26.20	424.89	Not sampled: well sampled annually, during the first quarter								
	11/13/96			29.72	421.37	Not sampled: well sampled annually, during the first quarter								
	03/26/97	--		21.86	429.23	8,900	390	33	200	250	ND<70	--	--	
	05/15/97			26.92	424.17	Not sampled: well sampled annually, during the first quarter								
	08/26/97			29.30	421.79	Not sampled: well sampled annually, during the first quarter								
	11/05/97			32.14	418.95	Not sampled: well sampled annually, during the first quarter								
	02/18/98	--		19.30	431.79	5,300	220	19	160	130	120	--	--	
	05/20/98			22.40	428.69	Not sampled: well sampled annually, during the first quarter								
	07/30/98			25.74	425.35	Not sampled: well sampled annually, during the first quarter								
	10/29/98			31.26	419.83	Not sampled: well sampled annually, during the first quarter								
	03/16/99	P		25.05	426.04	1,900	49	ND<5	43	ND<5	82	1.5	--	
	05/05/99			26.15	424.94	Not sampled: well sampled annually, during the first quarter								
	08/26/99			28.60	422.49	Not sampled: well sampled annually, during the first quarter							1.43	--
	12/03/99			31.53	419.56	Not sampled: well sampled annually, during the first quarter								
	03/13/00	P		23.61	427.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	3.82	--	
	06/20/00			26.38	424.71	Not sampled: well sampled annually, during the first quarter							0.40	--
	08/31/00	NP		29.55	421.54	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	1.04	--	
	02/09/01	NP		30.30	420.79	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	1.39	--	
	09/17/01	NP		29.90	421.19	3,400	51	ND<5.0	16	23	360	0.92	--	
	01/21/02	NP		29.51	421.58	1,900	140	12	27	48	300	1.03	--	
	07/19/02	NP		30.77	420.32	2,700 <sup>1</sup>	150	9.9	ND<5.0	ND<5.0	130	1.0	7.3	
	1/15/03 <sup>2</sup>			23.56	427.53	4,800 <sup>1</sup>	150	5.3	28	46	150	1.3	7.0	
	07/09/03	NP		29.50	421.59	3,000	210	9.4	6.0	20	150	2.0	6.9	

**Table 1**  
**Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
MW-5	03/20/95	--	451.40	23.20	428.20	26,000	1,300	180	890	2,900	--	--	--	
	06/02/95	--		24.80	426.60	39,000	940	160	740	1,900	--	--	--	
	08/23/95	--		28.10	423.30	14,000	490	74	250	890	ND<300	--	--	
	12/04/95	--		29.83	421.57	7,600	230	13	61	80	--	--	--	
	02/20/96	--		21.63	429.77	4,300	220	12	45	130	ND<50	--	--	
	05/15/96	--		22.87	428.53	2,200	380	17	58	84	ND<40	--	--	
	08/13/96	--		26.48	424.92	1,700	150	16	24	35	47	--	--	
	11/13/96	--		29.68	421.72	850	150	11	19	37	66	--	--	
	03/26/97	--		25.14	426.26	2,400	440	21	79	210	68	--	--	
	05/15/97	--		27.38	424.02	3,900	510	19	140	240	48	--	--	
	08/26/97	--		29.89	421.51	76	5	ND<0.5	2	2	9	--	--	
	11/05/97	--		32.57	418.83	63	1	ND<0.5	ND<0.5	1	34	--	--	
	02/18/98	--		19.99	431.41	6,200	630	70	320	640	320	--	--	
	05/20/98	--		23.21	428.19	2,300	340	21	110	140	62	--	--	
	07/30/98	P		26.19	425.21	ND<50	1	ND<0.5	1	1	ND<3	8.8	--	
	10/29/98	NP		31.92	419.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	2.0	--	
	03/16/99	P		25.80	425.60	1,300	170	8	59	65	120	2.0	--	
	05/05/99	P		27.09	424.31	320	31	1.1	13	13	19	12.09	--	
	08/26/99	P		29.67	421.73	260	13	1.7	4.2	6.3	150	1.31	--	
	12/03/99			Not surveyed: well inaccessible										
	03/13/00	P		24.51	426.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	4.41	--	
	06/20/00	P		27.37	424.03	60.8	4.84	ND<0.500	1.90	1.59	ND<2.50	5.30	--	
	08/31/00	P		30.21	421.19	ND<50.0	1.18	ND<0.500	ND<0.500	ND<0.500	3.83	0.97	--	
	02/09/01			30.19	421.21	Well sampled annually during the third quarter								
	09/17/01	P		30.71	420.69	2,700	120	10	90	77	330	0.81	--	
	01/21/02			30.40	421.00	Well sampled annually during the third quarter								
	07/19/02	P		31.93	419.47	1,600 <sup>1</sup>	170	7.0	120	ND<5.0	180	1.7	7	
	1/15/03 <sup>2</sup>			23.12	428.28	Well sampled annually during the third quarter								
	07/09/03	P		30.95	420.45	2,000	160	5.7	67	27	260	1.5	6.9	

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level
MW-6	03/20/95	--	451.37	25.19	426.18	2,600	210	87	82	140	--	--	--
	06/02/95	--		25.75	425.62	1,600	55	8	40	26	--	--	--
	08/23/95	--		29.53	421.84	1,400	42	3	36	13	ND<20	--	--
	12/04/95	--		32.28	419.09	2,500	52	6	59	13	--	--	--
	02/20/96	--		22.27	429.10	2,500	120	16	73	12	ND<30	--	--
	05/15/96	--		23.86	427.51	2,000	71	6	47	25	ND<15	--	--
	08/13/96	--		28.55	422.82	3,800	91	8	69	25	ND<20	--	--
	11/13/96	--		32.04	419.33	1,900	55	3	55	9	16	--	--
	03/26/97	--		26.84	424.53	1,800	51	5	32	15	ND<30	--	--
	05/15/97	--		29.58	421.79	2,400	46	3	29	9	ND<12	--	--
	08/26/97	--		32.67	418.70	1,400	61	6	33	10	ND<12	--	--
	11/05/97	--		34.62	416.75	690	29	3	18	3	9	--	--
	02/18/98	--		20.09	431.28	1,800	74	5	24	12	19	--	--
	05/20/98	--		24.05	427.32	1,900	280	4	31	16	9	--	--
	07/30/98	P		28.72	422.65	2,300	110	7	36	20	ND<15	--	--
	10/29/98	P		32.77	418.60	2,500	14	13	17	12	ND<12	1.0	--
	03/16/99	P		26.45	424.92	1,200	65	4	27	13	18	0.5	--
	05/05/99	P		27.86	423.51	2,200	53	4	26	6	25	5.59	--
	08/26/99	P		30.49	420.88	1,100	11	6	10	4	13	2.35	--
	12/03/99	P		32.35	419.02	370	ND<0.5	ND<0.5	0.8	ND<1	4	2.36	--
	03/13/00	P		28.36	423.01	54	2.1	0.5	0.9	1.4	ND<3	4.22	--
	06/20/00	P		28.35	423.02	195	1.83	ND<0.500	0.528	ND<0.500	ND<2.50	3.50	--
	08/31/00	P		30.20	421.17	276	3.52	0.788	1.15	0.621	8.73	7.00	--
	02/09/01	P		30.70	420.67	253	5.44	2.93	0.924	0.977	48.9	0.59	--
DUP	02/09/01	--	--	--	--	222	4.49	2.73	0.579	0.523	57.1	--	--
	09/17/01	P		30.94	420.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	2.79	--
DUP	09/17/01	--	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	--
	01/21/02	P		30.55	420.82	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.90	--
	07/19/02	P		30.27	421.10	60 <sup>1</sup>	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.5	7.9
	1/15/03 <sup>2</sup>			22.86	428.51	83 <sup>1</sup>	9.1	ND<0.50	3.4	4.6	1.0	2.5	7.2
	07/09/03	P		29.41	421.96	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.98	2.6	7.1

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level		
MW-7	03/20/95	--	450.33	22.07	428.26	31,000	2,300	400	620	2,900	--	--	--		
	06/02/95	--		23.42	426.91	40,000	1,400	280	610	2,400	--	--	--		
	08/23/95	--		27.13	423.20	25,000	1,400	200	600	1,600	350	--	--		
	12/04/95	--		29.45	420.88	23,000	1,100	74	490	720	--	--	--		
	02/20/96	--		20.25	430.08	39,000	1,200	140	640	1,800	ND<400	--	--		
	05/15/96			21.38	428.95	Not sampled: well sampled annually, during the first quarter									
	08/13/96			25.52	424.81	Not sampled: well sampled annually, during the first quarter									
	11/13/96			29.38	420.95	Not sampled: well sampled annually, during the first quarter									
	03/26/97	--		24.36	425.97	35,000	1,100	180	460	1,700	ND<300	--	--		
	05/15/97			26.90	423.43	Not sampled: well sampled annually, during the first quarter									
	08/26/97			30.21	420.12	Not sampled: well sampled annually, during the first quarter									
	11/05/97			32.49	417.84	Not sampled: well sampled annually, during the first quarter									
	02/18/98	--		18.10	432.23	19,000	1,100	120	460	1,700	240	--	--		
	05/20/98			21.68	428.65	Not sampled: well sampled annually, during the first quarter									
	07/30/98			26.07	424.26	Not sampled: well sampled annually, during the first quarter									
	10/29/98			31.13	419.20	Not sampled: well sampled annually, during the first quarter									
	03/16/99	P			24.45	425.88	8,600	430	51	200	680	ND<120	1.5	--	
	05/05/99			25.84	424.49	Not sampled: well sampled annually, during the first quarter									
	08/26/99			28.28	422.05	Not sampled: well sampled annually, during the first quarter							1.51	--	
	12/03/99			31.57	418.76	Not sampled: well sampled annually, during the first quarter									
	03/13/00				Not surveyed: well inaccessible										
	06/20/00				25.91	424.42	Not sampled: well sampled annually, during the first quarter							5.40	--
	08/31/00				28.40	421.93	8,410	344	58.9	276	581	202	0.09	--	
02/09/01				30.04	420.29	2,030	203	12.0	17.9	49.4	128	1.55	--		
09/17/01	P			29.03	421.30	4,800	200	14	9.9	27	160	0.29	--		
01/21/02	P			28.98	421.35	4,200	350	20	52	63	99	0.81	--		
DUP	01/21/02	--	--	--	--	2,600	280	17	41	50	97				
	07/19/02	P		28.70	421.63	5,700 <sup>1</sup>	630	31	330	160	64	0.7	7.3		
	1/15/03 <sup>2</sup>			21.91	428.42	12,000 <sup>1</sup>	470	19	340	310	91	1.5	7.0		
	07/09/03	P		27.88	422.45	6,700	590	23	280	92	110	1.0	6.9		

**Table 1**  
**Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level
MW-8	03/20/95	--	449.43	24.75	424.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--
	06/02/95			24.95	424.48	Not sampled: well sampled semi-annually, during the first and third quarters							
	08/23/95	--		30.94	418.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	12/04/95			31.99	417.44	Not sampled: well sampled semi-annually, during the first and third quarters							
	02/20/96	--		21.13	428.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	05/15/96			21.96	427.47	Not sampled: well sampled semi-annually, during the first and third quarters							
	08/13/96	--		30.20	419.23	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	11/13/96			33.24	416.19	Not sampled: well sampled semi-annually, during the first and third quarters							
	03/26/97	--		26.85	422.58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	05/15/97			29.69	419.74	Not sampled: well sampled semi-annually, during the first and third quarters							
	08/26/97	--		34.00	415.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	11/05/97			35.94	413.49	Not sampled: well sampled semi-annually, during the first and third quarters							
	02/18/98	--		18.18	431.25	ND<50	1	1	ND<0.5	1	ND<3	--	--
	05/20/98			22.85	426.58	Not sampled: well sampled semi-annually, during the first and third quarters							
	07/30/98	NP		30.31	419.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	8.2	--
	10/29/98			35.88	413.55	Not sampled: well sampled semi-annually, during the first and third quarters							
	03/16/99	NP		28.50	420.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	1.0	--
	05/05/99			29.76	419.67	Not sampled: well sampled semi-annually, during the first and third quarters							
	08/26/99	P		33.51	415.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	4.93	--
	12/03/99			35.83	413.60	Not sampled: well sampled semi-annually, during the first and third quarters							
	03/13/00	P		26.12	423.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	2.81	--
	06/20/00			30.91	418.52	Not sampled: well sampled semi-annually						5.80	--
	08/31/00			33.70	415.73	Not sampled: well no longer part of sampling schedule							
	02/09/01			30.90	418.53	Not sampled: well no longer part of sampling schedule							
	09/17/01			33.95	415.48	Not sampled: well no longer part of sampling schedule							
	01/21/02			33.71	415.72	Not sampled: well no longer part of sampling schedule							
	07/19/02			35.30	414.13	Not sampled: well no longer part of sampling schedule							
	1/15/03 <sup>2</sup>			27.10	422.33	Not sampled: well no longer part of sampling schedule							
	07/09/03			33.10	416.33	Not sampled: well no longer part of sampling schedule							

**Table 1**  
**Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
MW-9	03/20/95	--	449.21	19.11	430.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	
	06/02/95			21.23	427.98	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/23/95	--		24.33	424.88	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	12/04/95			27.90	421.31	Not sampled: well sampled semi-annually, during the first and third quarters								
	02/20/96	--		17.86	431.35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/15/96			18.69	430.52	Not sampled: well sampled annually, during the first quarter								
	08/13/96			24.17	425.04	Not sampled: well sampled annually, during the first quarter								
	11/13/96			28.01	421.20	Not sampled: well sampled annually, during the first quarter								
	03/26/97	--		22.58	426.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/15/97			25.12	424.09	Not sampled: well sampled annually, during the first quarter								
	08/26/97			28.28	420.93	Not sampled: well sampled annually, during the first quarter								
	11/05/97			31.18	418.03	Not sampled: well sampled annually, during the first quarter								
	02/18/98	--		16.03	433.18	ND<50	1	1	ND<0.5	1	ND<3	--	--	
	05/20/98			19.31	429.90	Not sampled: well sampled annually, during the first quarter								
	07/30/98			24.90	424.31	Not sampled: well sampled annually, during the first quarter								
	10/29/98			30.08	419.13	Not sampled: well sampled annually, during the first quarter								
	03/16/99	P		22.68	426.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	1.0	--	
	05/05/99			23.82	425.39	Not sampled: well sampled annually, during the first quarter								
	08/26/99			26.57	422.64	Not sampled: well sampled annually, during the first quarter							5.08	--
	12/03/99			Not surveyed: well inaccessible										
	03/13/00	P		25.62	423.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	5.43	--	
	06/20/00			23.55	425.66	Not sampled: well sampled annually, during the first quarter							6.20	--
	08/31/00			27.39	421.82	Not sampled: well no longer part of sampling schedule								
	02/09/01			28.65	420.56	Not sampled: well no longer part of sampling schedule								
	09/17/01			27.51	421.70	Not sampled: well no longer part of sampling schedule								
	01/21/02			27.09	422.12	Not sampled: well no longer part of sampling schedule								
	07/19/02			27.06	422.15	Not sampled: well no longer part of sampling schedule								
	1/15/03 <sup>2</sup>			21.78	427.43	Not sampled: well no longer part of sampling schedule								
	07/09/03			26.18	423.03	Not sampled: well no longer part of sampling schedule								

**Table 1**  
**Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled	Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level
MW-10	03/20/95	449.22	20.96	428.26	Not sampled: well sampled annually, during the third quarter							
	06/02/95		22.15	427.07	Not sampled: well sampled annually, during the third quarter							
	08/23/95	--	24.47	424.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	12/04/95		26.97	422.25	Not sampled: well sampled annually, during the third quarter							
	02/20/96	--	18.40	430.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	05/15/96		--	--	Not surveyed: vehicle was parked on well							
	08/13/96		23.70	425.52	Not sampled: well sampled annually, during the first quarter							
	11/13/96		27.15	422.07	Not sampled: well sampled annually, during the first quarter							
	03/26/97	--	22.23	426.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--
	05/15/97		24.57	424.65	Not sampled: well sampled annually, during the first quarter							
	08/26/97		27.62	421.60	Not sampled: well sampled annually, during the first quarter							
	11/05/97		30.79	418.43	Not sampled: well sampled annually, during the first quarter							
	02/18/98		--	--	Not surveyed: vehicle was parked on well							
	05/20/98		--	--	Not sampled: well sampled annually, during the first quarter							
	07/30/98		23.90	425.32	Not sampled: well sampled annually, during the first quarter							
	10/29/98		30.55	418.67	Not sampled: well sampled annually, during the first quarter							
	03/16/99	P	23.05	426.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	1.0	--
	05/05/99		24.00	425.22	Not sampled: well sampled annually, during the first quarter							
	08/26/99		26.50	422.72	Not sampled: well sampled annually, during the first quarter							
	12/03/99		30.80	418.42	Not sampled: well sampled annually, during the first quarter							
	03/13/00		26.21	423.01	Not sampled: vehicle was parked on well							
	06/20/00		23.52	425.70	Not sampled: well sampled annually, during the first quarter							
	08/31/00		27.52	421.70	Not sampled: well no longer part of sampling schedule							
	02/09/01		28.71	420.51	Not sampled: well no longer part of sampling schedule							
	09/17/01		27.94	421.28	Not sampled: well no longer part of sampling schedule							
	01/21/02		27.44	421.78	Not sampled: well no longer part of sampling schedule							
	07/19/02		27.80	421.42	Not sampled: well no longer part of sampling schedule							
	1/15/03 <sup>2</sup>		23.09	426.13	Not sampled: well no longer part of sampling schedule							
	07/09/03		26.87	422.35	Not sampled: well no longer part of sampling schedule							



**Table 1**  
**Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
MW-11	03/20/95	--	448.02	25.02	423.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	
	06/02/95			23.82	424.20	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/23/95	--		30.15	417.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	12/04/95			31.63	416.39	Not sampled: well sampled semi-annually, during the first and third quarters								
	02/20/96	--		20.94	427.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/15/96			23.03	424.99	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/13/96	--		29.19	418.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	11/13/96			31.96	416.06	Not sampled: well sampled semi-annually, during the first and third quarters								
	03/26/97	--		26.61	421.41	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	05/15/97			29.39	418.63	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/26/97	--		33.47	414.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	--	--	
	11/05/97			35.12	412.90	Not sampled: well sampled semi-annually, during the first and third quarters								
	02/18/98	--		18.03	429.99	ND<50	ND<0.5	ND<0.5	ND<0.5	1	ND<3	--	--	
	05/20/98			23.00	425.02	Not sampled: well sampled semi-annually, during the first and third quarters								
	07/30/98	P		29.30	418.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	5.6	--	
	10/29/98			34.47	413.55	Not sampled: well sampled semi-annually, during the first and third quarters								
	03/16/99	P		27.88	420.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	1.0	--	
	05/05/99			26.85	421.17	Not sampled: well sampled semi-annually, during the first and third quarters								
	08/26/99	P		32.74	415.28	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3	4.59	--	
	12/03/99			34.70	413.32	Not sampled: well sampled semi-annually, during the first and third quarters								
	03/13/00	P		25.94	422.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<3	3.21	--	
	06/20/00			30.40	417.62	Not sampled: well sampled semi-annually, during the first and third quarters							3.30	--
DUP	08/31/00	--	--	--	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	--	--	
	08/31/00	NP		32.68	415.34	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	0.40	--	
	02/09/01			31.17	416.85	Not sampled: well sampled annually, during the third quarter								
	09/17/01	NP		32.98	415.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	0.62	--	
	01/21/02			31.05	416.97	Not sampled: well sampled annually, during the third quarter								
	07/19/02	P		31.67	416.35	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.7	8	
	1/15/03 <sup>2</sup>			23.75	424.27	Not sampled: well sampled annually, during the third quarter								
	07/09/03	P		31.06	416.96	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.4	6.6	

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level	
RW-1	03/20/95	--	451.67	23.76	427.91	15,000	1,000	140	310	950	--	--	--	
	06/02/95	--		25.12	426.55	12,000	1,300	280	420	1,100	--	--	--	
	08/23/95	--		28.80	422.87	8,200	520	190	240	610	ND<50	--	--	
	12/04/95	--		31.15	420.52	2,600	140	59	83	210	--	--	--	
	02/20/96	--		21.45	430.22	6,300	410	160	180	650	ND<40	--	--	
	05/15/96			22.97	428.70	Not sampled: well sampled annually, during the first quarter								
	08/13/96			24.74	426.93	Not sampled: well sampled annually, during the first quarter								
	11/13/96			30.69	420.98	Not sampled: well sampled annually, during the first quarter								
	03/26/97	--		25.69	425.98	500	57	3	6	18	54	--	--	
	05/15/97			28.19	423.48	Not sampled: well sampled annually, during the first quarter								
	08/26/97			31.21	420.46	Not sampled: well sampled annually, during the first quarter								
	11/05/97			33.67	418.00	Not sampled: well sampled annually, during the first quarter								
	02/18/98	--		20.14	431.53	9,400	200	70	190	710	ND<60	--	--	
	05/20/98			23.43	428.24	Not sampled: well sampled annually, during the first quarter								
	07/30/98			27.42	424.25	Not sampled: well sampled annually, during the first quarter								
	10/29/98			32.47	419.20	Not sampled: well sampled annually, during the first quarter								
	03/16/99	NP		25.45	426.22	1,100	140	19	45	83	530	1.0	--	
	05/05/99			27.23	424.44	Not sampled: well sampled annually, during the first quarter								
	08/26/99			29.98	421.69	Not sampled: well sampled annually, during the first quarter							1.39	--
	12/03/99			32.38	419.29	Not sampled: well sampled annually, during the first quarter								
	03/13/00	NP		25.53	426.14	1,100	130	3.5	0.7	95	230	4.43	--	
	06/20/00			28.31	423.36	Not sampled: well sampled annually, during the first quarter							1.90	--
	08/31/00	NP		30.61	421.06	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<0.500	82.5	3.21	--
	02/09/01	NP		31.14	420.53	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	0.84	--	
	09/17/01	NP		31.70	419.97	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	1.51	--	
	01/21/02	NP		30.15	421.52	ND<50	7.7	ND<0.50	ND<0.50	1.5	18	0.63	--	
	07/19/02	NP		31.15	420.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	13	1.4	6.6	
	1/15/03 <sup>2</sup>			22.20	429.47	860 <sup>1</sup>	9.0	1.6	17	42	1.5	2.8	7.2	
	07/09/03	NP		29.56	422.11	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	7.1	

**Table 1  
Groundwater Elevation and Analytical Data\*\***

ARCO Service Station # 0771  
899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Elevation (feet, MSL)	Water (feet, TOC)	Groundwater Elevation (feet-MSL)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)	pH Level
VW-1	08/31/00	P	--	20.61	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	10.08	--
	02/09/01	P	--	22.10	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	ND<2.50	0.53	--
	09/17/01	P	--	21.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	6.59	--
	01/21/02	P	--	21.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	0.70	--
	07/19/02	P		22.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.9	7.1
	1/15/03 <sup>2</sup>			22.59	--	ND<50	ND<0.50	ND<0.50	0.63	1.7	ND<0.50	5.4	7.2
	07/09/03	P		22.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.61	ND<0.50	2.0	7.0

**Notes**

- TPH-g = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B modified
- BTEX = Benzene, toluene, ethyl benzene, and total xylenes analyzed using EPA Method 8021B
- \* = EPA method 8020 prior to 12/03/99
- µg/L = Micrograms per liter
- mg/L = Milligrams per liter
- = Not analyzed or not applicable
- ND< = Less than laboratory detection limit stated to the right
- DUP = Duplicate
- MSL = Mean sea level
- TOC = Top of casing
- P = Purge
- NP = No purge
- 1 = Chromatogram Pattern: Gasoline C6-C10
- 2 = BTEX and MTBE analyzed by EPA Method 8260B beginning 1st Quarter Sampling event (01/15/03)
- \*\* 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).

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

**Table 2**  
**Groundwater Flow Direction and Gradient**

ARCO Service Station # 771  
899 Rincon Avenue, Livermore, California

<b>Date Measured</b>	<b>Average Flow Direction</b>	<b>Average Hydraulic Gradient</b>
03/20/95	Northwest	0.03
06/02/95	North-Northwest	0.014
08/23/95	North-Northwest	0.03
12/04/95	North-Northwest	0.03
02/20/96	Northwest	0.016
05/15/96	Northwest	0.024
08/13/96	North-Northwest	0.03
11/13/96	North-Northwest	0.031
03/26/97	North-Northwest	0.044
05/15/97	North-Northwest	0.031
08/26/97	North-Northwest	0.042
11/05/97	North-Northwest	0.03
02/18/98	Northwest	0.01
05/20/98	Northwest	0.03
07/30/98	North	0.04
10/29/98	North	0.005
03/16/99	North-Northwest	0.03
05/05/99	North	0.04
08/26/99	North-Northwest	0.05
12/03/99	North-Northeast	0.06
03/13/00	North-Northwest	0.066
06/20/00	North-Northwest	0.050
08/31/00	North-Northwest	0.062
02/09/01	North-Northeast	0.014
09/17/01	North-Northwest	0.061
01/21/02	North-Northwest	0.050
07/19/02	North-Northwest	0.044
01/15/03	Northeast to Southeast	0.038 - 0.016
<b>07/09/03</b>	<b>Northwest to North-Northwest</b>	<b>0.009 - 0.0625</b>

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

**Table 3**  
**Oxygenate Analytical Data**

ARCO Service Station #771  
899 Rincon Avenue, 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-Dichloro-ethane (µg/L)	1,2 Dibromo-ethane (EDB) (µg/L)
MW-2	07/09/03	ND<1,000	ND<200	39	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-4	07/09/03	ND<1,000	750	150	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-5	07/09/03	ND<1,000	1,100	260	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-6	07/09/03	ND<100	ND<20	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	07/09/03	ND<1,000	350	110	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-11	07/09/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
RW-1	07/09/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
VW-1	07/09/03	ND<100	ND<20	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

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

**ATTACHMENT A**  
**FIELD PROCEDURES AND FIELD DATA SHEETS**

## FIELD PROCEDURES

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### 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 # 030709-SS1 Date 7/9/03 Client ARCO # 771

Site 699 LINCOLN AVE. LIVERMORE, CA.

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC		
MW-1	4					30.35	36.85			
MW-2	4					26.40	34.19		S	
MW-3	4					28.00	39.59			
MW-4	4					29.50	41.25		MP @ 26'	S
MW-5	4					30.95	40.18			S
MW-6	4					29.41	43.22			S
MW-7	4					27.86	39.67			S
MW-8	2					33.10	41.50			
MW-9	2					26.18	39.05			
MW-10	2					26.87	36.27			S
MW-11	2					31.06	38.59			S
MW-1	6					29.56	39.75		MP @ 25.5'	S
VW-1	4					22.50	28.18	J		
* KIPS ON MOST WELLS NOT TIGHTENED. 2357 KEY DOES NOT WORK.										



## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-551</u>	Station # <u>771</u>
Sampler: <u>5000H</u>	Date: <u>7/9/03</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>34.19</u>	Depth to Water: <u>26.40</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	--

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

<u>5</u>	X	<u>3</u>	=	<u>15</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>1106</u>	<u>72.4</u>	<u>7.0</u>	<u>1201</u>	<u>5</u>	<u>GREY / GAS ODDOR</u>
<u>1107</u>	<u>71.6</u>	<u>7.0</u>	<u>1203</u>	<u>10</u>	" "
<u>WELL DEWATERED @ 10 gal.</u>					<u>DTW = 30.10</u>
<u>1138</u>	<u>72.7</u>	<u>7.0</u>	<u>1183</u>	<u>—————</u>	<u>ADJUST CORR DTW = 28.90</u>

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>10</u>
Sampling Time: <u>1138</u>	Sampling Date: <u>7/9/03</u>
Sample I.D.: <u>MW-2</u>	Laboratory: Pace <u>Sequoid</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OXY'S, ETHANOL, 1,2-DCA &amp; EDB ALL BY 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>2.5</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-SS1</u>	Station # <u>771</u>
Sampler: <u>5000t</u>	Date: <u>7/9/03</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u>    </u>
Total Well Depth: <u>41.25</u>	Depth to Water: <u>29.50</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> <sup>3</sup> HACH

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

Purge Method: <u>Bailer</u> <del>Disposable Bailer</del> <del>Middleburg</del> <del>Electric Submersible Extraction Pump</del> Other: _____	Sampling Method: <u>Bailer</u> <del>Disposable Bailer</del> <del>Extraction Port</del> Other: _____
---	--

Top of Screen: 26' 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>No Purge</u>	X	<u>3</u>	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1050</u>	<u>70.2</u>	<u>6.9</u>	<u>1189</u>	—	<u>clear / mild gas odor</u>

Did well dewater? ~~Yes~~ No Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 1050 Sampling Date: 7/9/03

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

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

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

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-551</u>	Station # <u>771</u>
Sampler: <u>500CH</u>	Date: <u>7/9/03</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>40.18</u>	Depth to Water: <u>30.95</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric <u>Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable <u>Bailer</u> 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>6</u>	x	<u>3</u>	=	<u>18</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1031	70.4	6.9	1092	6	HEAD / MILD SKY ORDER
1032	69.9	6.9	1114	12	"
1034	70.0	6.9	1120	18	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>18</u>
Sampling Time: <u>1038</u>	Sampling Date: <u>7/9/03</u>
Sample I.D.: <u>MW-5</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OXY'S, ETHANOL, 1,2-DCA &amp; EDB ALL BY 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>1.5</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-551</u>	Station # <u>771</u>
Sampler: <u>5000H</u>	Date: <u>7/9/03</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>43.22</u>	Depth to Water: <u>29.41</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
---	--

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

<u>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 $\mu$ S)	Gals. Removed	Observations
<u>951</u>	<u>70.4</u>	<u>7.1</u>	<u>808</u>	<u>9</u>	<u>clear</u>
<u>953</u>	<u>69.7</u>	<u>7.1</u>	<u>802</u>	<u>18</u>	<u>"</u>
<u>955</u>	<u>69.7</u>	<u>7.0</u>	<u>841</u>	<u>27</u>	<u>MBBID / mild gas odor</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>27</u>
Sampling Time: <u>959</u>	Sampling Date: <u>7/9/03</u>
Sample I.D.: <u>MW-6</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OXY'S, ETHANOL, 1,2-DCA &amp; EDB ALL BY 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>2.6</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-SS1</u>	Station # <u>771</u>
Sampler: <u>5000H</u>	Date: <u>7/9/03</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u>    </u>
Total Well Depth: <u>39.67</u>	Depth to Water: <u>27.88</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer Middleburg Electric <u>Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Other: _____
--	--

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

<u>7.7</u>	X	<u>3</u>	=	<u>23.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>1118</u>	<u>71.2</u>	<u>7.0</u>	<u>1158</u>	<u>7.7</u>	<u>TURBID/GAS ODOR</u>
<u>1120</u>	<u>70.5</u>	<u>6.9</u>	<u>1142</u>	<u>15.4</u>	<u>ALMOST CLEAR</u>
<u>1122</u>	<u>70.3</u>	<u>6.9</u>	<u>1134</u>	<u>23.1</u>	<u>"</u>

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: <u>23.1</u>
Sampling Time: <u>1126</u>	Sampling Date: <u>7/9/03</u>
Sample I.D.: <u>MW-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OXY'S, ETHANOL, 1,2-DCA &amp; EDB ALL BY 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>L.O</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-SS1</u>	Station # <u>771</u>
Sampler: <u>SPOOH</u>	Date: <u>7/9/03</u>
Well I.D.: <u>MW-11</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u>    </u>
Total Well Depth: <u>38.59</u>	Depth to Water: <u>31.06</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> <u>Disposable Bailer</u> Middleburg Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
--	---

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

<u>1.2</u>	X	<u>3</u>	=	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
934	69.5	6.5	1065	1.2	MWBID
936	69.1	6.6	954	2.4	"
938	69.0	6.6	910	3.6	"

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.6</u>
Sampling Time: <u>940</u>	Sampling Date: <u>7/9/03</u>
Sample I.D.: <u>MW-11</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OXY'S, ETHANOL, 1,2-DCA &amp; EDB ALL BY 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>2.4</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV

## ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-551</u>	Station # <u>771</u>
Sampler: <u>5000t</u>	Date: <u>7/9/03</u>
Well I.D.: <u>PW-1</u>	Well Diameter: 2 3 4 <u>(6)</u> 8
Total Well Depth: <u>39.75</u>	Depth to Water: <u>29.56</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> <del>Disposable Bailer</del> <del>Middlburg</del> <del>Electric Submersible</del> <del>Extraction Pump</del> Other: _____	Sampling Method: <u>Bailer</u> <del>Disposable Bailer</del> Extraction Port Other: _____
--	---

Top of Screen: 25.5' If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>NO PURGE</u>	x	<u>3</u>	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>1005</u>	<u>69.8</u>	<u>7.1</u>	<u>863</u>	—	<u>CLEAR</u>

Did well dewater? Yes ~~\_\_\_\_\_~~ No \_\_\_\_\_ Gallons actually evacuated: \_\_\_\_\_

Sampling Time: 1005 Sampling Date: 7/9/03

Sample I.D.: PW-1 Laboratory: Pace (Sequoid) Other \_\_\_\_\_

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

D.O. (if req'd):	Pre-purge:	_____ mg/L	Post-purge:	<u>1.8</u> mg/L
	O.R.P. (if req'd):	Pre-purge:	_____ mV	Post-purge:

# ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>030709-551</u>	Station # <u>771</u>
Sampler: <u>5000H</u>	Date: <u>7/9/03</u>
Well I.D.: <u>VW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth: <u>28.18</u>	Depth to Water: <u>22.50</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 <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: _____
<u>Extraction Pump</u>	
Other: _____	

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

<u>3.7</u>	x	<u>3</u>	=	<u>11.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or $\mu$ S)	Gals. Removed	Observations
<u>1014</u>	<u>70.7</u>	<u>7.0</u>	<u>779</u>	<u>3.7</u>	<u>cloudy</u>
<u>1015</u>	<u>69.8</u>	<u>7.0</u>	<u>757</u>	<u>7.4</u>	"
<u>1016</u>	<u>69.7</u>	<u>7.0</u>	<u>754</u>	<u>11.5</u>	"

Did well dewater? Yes <u>No</u>	Gallons actually evacuated: <u>11.5</u>
Sampling Time: <u>1020</u>	Sampling Date: <u>7/9/03</u>
Sample I.D.: <u>VW-1</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: <u>TPH-G BTEX</u> MTBE TPH-D Other: <u>OXY'S, ETHANOL, 1,2-DCA &amp; EDB</u> <u>AN BY 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L
	Post-purge: <u>2.0</u> mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV
	Post-purge: _____ mV





### Chain of Custody Record

Project Name ARCO # 771  
 BP BU/GEM CO Portfolio: \_\_\_\_\_  
 BP Laboratory Contract Number: \_\_\_\_\_  
 Date: 7/9/03 Requested Due Date (mm/dd/yy) \_\_\_\_\_

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Send To:	BP/GEM Facility No.:	Consultant/Contractor: URS
Lab Name: SEQUOIA	BP/GEM Facility Address: 899 RINCON AVE, LIVERMORE, CA	Address: 500 12th St., Ste. 200
Lab Address: 885 Jarvis Dr. Morgan Hill, CA 95037	Site ID No. ARCO 771	Oakland, CA 94609-4014
	Site Lat/Long:	e-mail EDD: syed_rehan@urscorp.com
	California Global ID #: T0600100113	Consultant/Contractor Project No.: J5-00000771.01 00427
Lab PM: Laionya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
Tele/Fax: 408-776-9600 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EDF Reports		Invoice to: Consultant/Contractor or <u>BP/GEM</u> (Circle one)
BP/GEM Account No.:	Tele/Fax:	BP/GEM Work Release No: INTRIM -50867

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives				Requested Analysis				Sample Point Lat/Long and Comments	
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH-G / BTEX (8015/4004) \$260	TPH -D (8015)	MTBE (8021)	MTBE, PAME, ETBE DIRE, TBA (8260)		1,2-DCA & EDB (8260)
1	MW-2	1138	X				3					X		X	X	X		
2	MW-4	1050	X										X		X	X	X	
3	MW-5	1038	X										X		X	X	X	
4	MW-6	959	X										X		X	X	X	
5	MW-7	1126	X										X		X	X	X	
6	MW-11	940	X										X		X	X	X	
7	PW-1	1005	X										X		X	X	X	
8	VW-1	1020	X										X		X	X	X	
9																		
10																		

Sampler's Name: <u>SUTTON SUNG</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>BLAINE TECH</u>						
Shipment Date:						
Shipment Method:						
Shipment Tracking No.:						

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

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

**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:

771  
Station #

899 RINCON AVE. LIVERMORE  
Station Address

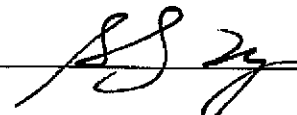
Total Gallons Collected From Groundwater Monitoring Wells:

---

added equip. any other  
rinse water adjustments

TOTAL GALS. loaded onto  
RECOVERED 95 BTS vehicle # 88

BTS event # time date  
030709-551 1200 7/9/09

signature 

\*\*\*\*\*

REC'D AT time date  
/ /

unloaded by  
signature

**ATTACHMENT B**

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

## **LABORATORY PROCEDURES**

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### **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 Group Environmental Management Company have been reviewed and verified by that laboratory.



28 July, 2003

Scott Robinson  
URS Corporation [Arco]  
500 12th Street, Suite 100  
Oakland, CA 94607

RE: ARCO #771, Livermore, CA  
Work Order: MMG0244

Enclosed are the results of analyses for samples received by the laboratory on 07/10/03 14:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello For Theresa Allen  
Project Manager

CA ELAP Certificate #1210

URS Corporation [Arco]  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: ARCO #771, Livermore, CA  
Project Number: INTRIM-50867  
Project Manager: Scott Robinson

MMG0244  
**Reported:**  
07/28/03 18:28

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MMG0244-01	Water	07/09/03 11:38	07/10/03 14:42
MW-4	MMG0244-02	Water	07/09/03 10:50	07/10/03 14:42
MW-5	MMG0244-03	Water	07/09/03 10:38	07/10/03 14:42
MW-6	MMG0244-04	Water	07/09/03 09:59	07/10/03 14:42
MW-7	MMG0244-05	Water	07/09/03 11:26	07/10/03 14:42
MW-11	MMG0244-06	Water	07/09/03 09:40	07/10/03 14:42
RW-1	MMG0244-07	Water	07/09/03 10:05	07/10/03 14:42
VW-1	MMG0244-08	Water	07/09/03 10:20	07/10/03 14:42

There were no custody seals that were received with this project.

URS Corporation [Arco]  
 500 12th Street, Suite 100  
 Oakland CA, 94607

 Project: ARCO #771, Livermore, CA  
 Project Number: INTRIM-50867  
 Project Manager: Scott Robinson

**MMG0244**  
**Reported:**  
 07/28/03 18:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (MMG0244-01) Water Sampled: 07/09/03 11:38 Received: 07/10/03 14:42</b>									
Ethanol	ND	1000	ug/l	10	3G23001	07/23/03	07/23/03	EPA 8260B	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>39</b>	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>170</b>	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>100</b>	5.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>19</b>	5.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>3900</b>	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	78-129	"	"	"	"	"	
<b>MW-4 (MMG0244-02) Water Sampled: 07/09/03 10:50 Received: 07/10/03 14:42</b>									
Ethanol	ND	1000	ug/l	10	3G23001	07/23/03	07/23/03	EPA 8260B	
tert-Butyl alcohol	750	200	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>150</b>	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
<b>Benzene</b>	<b>210</b>	5.0	"	"	"	"	"	"	
<b>Toluene</b>	<b>9.4</b>	5.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>6.0</b>	5.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>20</b>	5.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>3000</b>	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	78-129	"	"	"	"	"	

URS Corporation [Arco]  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: ARCO #771, Livermore, CA  
Project Number: INTRIM-50867  
Project Manager: Scott Robinson

MMG0244  
Reported:  
07/28/03 18:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW-5 (MMG0244-03) Water** Sampled: 07/09/03 10:38 Received: 07/10/03 14:42

Ethanol	ND	1000	ug/l	10	3G23001	07/23/03	07/23/03	EPA 8260B	
tert-Butyl alcohol	1100	200	"	"	"	"	"	"	
Methyl tert-butyl ether	260	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Benzene	160	5.0	"	"	"	"	"	"	
Toluene	5.7	5.0	"	"	"	"	"	"	
Ethylbenzene	67	5.0	"	"	"	"	"	"	
Xylenes (total)	27	5.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>2000</b>	<b>500</b>	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 111 % 78-129 " " " "

**MW-6 (MMG0244-04) Water** Sampled: 07/09/03 09:59 Received: 07/10/03 14:42

Ethanol	ND	100	ug/l	1	3G23001	07/23/03	07/23/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	0.98	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	"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>110</b>	<b>50</b>	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 78-129 " " " "



URS Corporation [Arco]  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: ARCO #771, Livermore, CA  
Project Number: INTRIM-50867  
Project Manager: Scott Robinson

MMG0244  
Reported:  
07/28/03 18:28

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>MW-7 (MMG0244-05) Water</b> <b>Sampled: 07/09/03 11:26</b> <b>Received: 07/10/03 14:42</b>										
Ethanol	ND	1000		ug/l	10	3G23001	07/23/03	07/23/03	EPA 8260B	
tert-Butyl alcohol	350	200		"	"	"	"	"	"	
Methyl tert-butyl ether	110	5.0		"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0		"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0		"	"	"	"	"	"	
<b>Benzene</b>	<b>590</b>	5.0		"	"	"	"	"	"	
<b>Toluene</b>	<b>23</b>	5.0		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>280</b>	5.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>92</b>	5.0		"	"	"	"	"	"	
<b>Gasoline Range Organics (C6-C10)</b>	<b>6700</b>	500		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		78-129		"	"	"	"	
<b>MW-11 (MMG0244-06) Water</b> <b>Sampled: 07/09/03 09:40</b> <b>Received: 07/10/03 14:42</b>										
Ethanol	ND	100		ug/l	1	3G23007	07/23/03	07/23/03	EPA 8260B	O-12a
tert-Butyl alcohol	ND	20		"	"	"	"	"	"	O-12
Methyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50		"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50		"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50		"	"	"	"	"	"	
Benzene	ND	0.50		"	"	"	"	"	"	
Toluene	ND	0.50		"	"	"	"	"	"	
Ethylbenzene	ND	0.50		"	"	"	"	"	"	
Xylenes (total)	ND	0.50		"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50		"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		106 %		78-129		"	"	"	"	



885 Jarvis Drive  
 Morgan Hill, CA 95037  
 (408) 766-9600  
 FAX (408) 782-6308  
 www.sequoialabs.com

URS Corporation [Arco] 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #771, Livermore, CA Project Number: INTRIM-50867 Project Manager: Scott Robinson	MMG0244 Reported: 07/28/03 18:28
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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
<b>RW-1 (MMG0244-07) Water    Sampled: 07/09/03 10:05    Received: 07/10/03 14:42</b>									
Ethanol	ND	100	ug/l	1	3G23007	07/23/03	07/23/03	EPA 8260B	O-12a
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-12
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	78-129	"	"	"	"	"	
<b>VW-1 (MMG0244-08) Water    Sampled: 07/09/03 10:20    Received: 07/10/03 14:42</b>									
Ethanol	ND	100	ug/l	1	3G23007	07/23/03	07/23/03	EPA 8260B	O-12a
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	O-12
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)	0.61	0.50	"	"	"	"	"	"	
Gasoline Range Organics (C6-C10)	ND	50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	78-129	"	"	"	"	"	

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]  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: ARCO #771, Livermore, CA  
Project Number: INTRIM-50867  
Project Manager: Scott Robinson

MMG0244  
Reported:  
07/28/03 18:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3G23001 - EPA 5030B P/T**

**Blank (3G23001-BLK1)**

Prepared & Analyzed: 07/23/03

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.33		"	5.00		107	78-129			

**Laboratory Control Sample (3G23001-BS1)**

Prepared & Analyzed: 07/23/03

Methyl tert-butyl ether	10.8	0.50	ug/l	10.0		108	63-137			
Benzene	10.4	0.50	"	10.0		104	78-124			
Toluene	10.9	0.50	"	10.0		109	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.39		"	5.00		108	78-129			

**Laboratory Control Sample (3G23001-BS2)**

Prepared & Analyzed: 07/23/03

Methyl tert-butyl ether	9.49	0.50	ug/l	9.92		95.7	63-137			
Benzene	6.35	0.50	"	6.40		99.2	78-124			
Toluene	35.7	0.50	"	29.7		120	78-129			
Gasoline Range Organics (C6-C10)	452	50	"	440		103	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.38		"	5.00		108	78-129			

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MMG0244  
Reported:  
07/28/03 18:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3G23001 - EPA 5030B P/T**
**Matrix Spike (3G23001-MS1)**
**Source: MMG0244-01**
**Prepared & Analyzed: 07/23/03**

Methyl tert-butyl ether	132	5.0	ug/l	99.2	39	93.8	63-137			
Benzene	217	5.0	"	64.0	170	73.4	78-124			QM-07
Toluene	354	5.0	"	297	4.5	118	78-129			
Gasoline Range Organics (C6-C10)	7990	500	"	4400	3900	93.0	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.58		"	5.00		112	78-129			

**Matrix Spike Dup (3G23001-MSD1)**
**Source: MMG0244-01**
**Prepared & Analyzed: 07/23/03**

Methyl tert-butyl ether	134	5.0	ug/l	99.2	39	95.8	63-137	1.50	13	
Benzene	220	5.0	"	64.0	170	78.1	78-124	1.37	12	
Toluene	364	5.0	"	297	4.5	121	78-129	2.79	10	
Gasoline Range Organics (C6-C10)	8280	500	"	4400	3900	99.5	70-113	3.56	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.38		"	5.00		108	78-129			

**Batch 3G23007 - EPA 5030B MeOH**
**Blank (3G23007-BLK1)**
**Prepared & Analyzed: 07/23/03**

Ethanol	ND	100	ug/l							O-12a
tert-Butyl alcohol	ND	20	"							O-12
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics (C6-C10)	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.19		"	5.00		104	78-129			

URS Corporation [Arco]  
 500 12th Street, Suite 100  
 Oakland CA, 94607

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 Project Manager: Scott Robinson

 MMG0244  
 Reported:  
 07/28/03 18:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3G23007 - EPA 5030B MeOH</b>										
<b>Laboratory Control Sample (3G23007-BS1)</b>				Prepared & Analyzed: 07/23/03						
Methyl tert-butyl ether	11.0	0.50	ug/l	10.0		110	63-137			
Benzene	9.37	0.50	"	10.0		93.7	78-124			
Toluene	9.61	0.50	"	10.0		96.1	78-129			
Surrogate: 1,2-Dichloroethane-d4	5.22		"	5.00		104	78-129			
<b>Laboratory Control Sample (3G23007-BS2)</b>				Prepared & Analyzed: 07/23/03						
Gasoline Range Organics (C6-C10)	435	50	ug/l	440		98.9	70-113			
Surrogate: 1,2-Dichloroethane-d4	4.92		"	5.00		98.4	78-129			
<b>Laboratory Control Sample Dup (3G23007-BSD1)</b>				Prepared & Analyzed: 07/23/03						
Methyl tert-butyl ether	11.7	0.50	ug/l	10.0		117	63-137	6.17	13	
Benzene	9.78	0.50	"	10.0		97.8	78-124	4.28	12	
Toluene	9.86	0.50	"	10.0		98.6	78-129	2.57	10	
Surrogate: 1,2-Dichloroethane-d4	5.46		"	5.00		109	78-129			
<b>Matrix Spike (3G23007-MS1)</b>		<b>Source: MMG0253-04</b>		Prepared & Analyzed: 07/23/03						
Methyl tert-butyl ether	76.8	5.0	ug/l	99.2	ND	77.4	63-137			
Benzene	279	5.0	"	64.0	240	60.9	78-124			QM-07
Toluene	309	5.0	"	297	2.4	103	78-129			
Gasoline Range Organics (C6-C10)	6200	500	"	4400	2300	88.6	70-113			
Surrogate: 1,2-Dichloroethane-d4	5.42		"	5.00		108	78-129			
<b>Matrix Spike (3G23007-MS2)</b>		<b>Source: MMG0525-08</b>		Prepared: 07/23/03 Analyzed: 07/24/03						
Methyl tert-butyl ether	198	10	ug/l	200	ND	99.0	63-137			
Benzene	942	10	"	200	760	91.0	78-124			
Toluene	200	10	"	200	27	86.5	78-129			
Surrogate: 1,2-Dichloroethane-d4	5.20		"	5.00		104	78-129			

URS Corporation [Arco]  
 500 12th Street, Suite 100  
 Oakland CA, 94607

 Project: ARCO #771, Livermore, CA  
 Project Number: INTRIM-50867  
 Project Manager: Scott Robinson

 MMG0244  
 Reported:  
 07/28/03 18:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3G23007 - EPA 5030B MeOH**

<b>Matrix Spike Dup (3G23007-MSD1)</b>		<b>Source: MMG0253-04</b>		<b>Prepared &amp; Analyzed: 07/23/03</b>						
Methyl tert-butyl ether	103	5.0	ug/l	99.2	ND	104	63-137	29.1	13	QR-02
Benzene	284	5.0	"	64.0	240	68.8	78-124	1.78	12	QM-07
Toluene	332	5.0	"	297	2.4	111	78-129	7.18	10	
Gasoline Range Organics (C6-C10)	6550	500	"	4400	2300	96.6	70-113	5.49	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.25		"	5.00		105	78-129			
<b>Matrix Spike Dup (3G23007-MSD2)</b>		<b>Source: MMG0525-08</b>		<b>Prepared: 07/23/03 Analyzed: 07/24/03</b>						
Methyl tert-butyl ether	197	10	ug/l	200	ND	98.5	63-137	0.506	13	
Benzene	956	10	"	200	760	98.0	78-124	1.48	12	
Toluene	202	10	"	200	27	87.5	78-129	0.995	10	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.22		"	5.00		104	78-129			

URS Corporation [Arco]  
500 12th Street, Suite 100  
Oakland CA, 94607

Project: ARCO #771, Livermore, CA  
Project Number: INTRIM-50867  
Project Manager: Scott Robinson

MMG0244  
Reported:  
07/28/03 18:28

#### Notes and Definitions

- O-12 "The continuing calibration verification was outside of client contractual acceptance limits by 10% low. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
- O-12a "The continuing calibration verification was outside of client contractual acceptance limits by 14.1% low. However, it was within method acceptance limits. The data should still be useful for its intended purpose."
- QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QR-02 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

Project Name ARCO # 771  
 BP RU/GEM CO Portfolio: \_\_\_\_\_  
 BP Laboratory Contract Number: \_\_\_\_\_  
 Date: 7/9/03 Requested Due Date (mm/dd/yy) \_\_\_\_\_

On-site Time: \_\_\_\_\_ Temp: \_\_\_\_\_  
 Off-site Time: \_\_\_\_\_ Temp: \_\_\_\_\_  
 Sky Conditions: \_\_\_\_\_  
 Meteorological Events: \_\_\_\_\_  
 Wind Speed: \_\_\_\_\_ Direction: \_\_\_\_\_

Send To:  
 Lab Name: SEQUOIA  
 Lab Address: 885 Jarvis Dr.  
Morgan Hill, CA 95037  
 Lab PM: Latonya Pelt  
 Tele/Fax: 408-776-9600 / 408-782-6308  
 Report Type & QC Level: Send PDF Reports  
 BP/GEM Account No.: \_\_\_\_\_

BP/GEM Facility No.: \_\_\_\_\_  
 BP/GEM Facility Address: 899 RINCON AVE, LIVERMORE, CA  
 Site ID No. ARCO 771  
 Site Lat/Long: \_\_\_\_\_  
 California Global ID #: T0600100113  
 BP/GEM PM Contact: PAUL SUPPLE  
 Address: \_\_\_\_\_  
 Tele/Fax: \_\_\_\_\_

Consultant/Contractor: URS  
 Address: 500 12th St., Ste. 200  
Oakland, CA 94609-4014  
 e-mail EDD: syed\_rehan@urscorp.com  
 Consultant/Contractor Project No.: J5-00000771.01 00427  
 Consultant Tele/Fax: 510-874-1735/510-874-3268  
 Consultant/Contractor PM: Scott Robinson  
 Invoice to: Consultant/Contractor or BP/GEM (circle one)  
 BP/GEM Work Release No: INTKIM-50867

MHG 0298

Item No.	Sample Description	Time	Matrix				Laboratory No.	No. of containers	Preservatives			Requested Analysis						Sample Point Lat/Long and Comments
			Soil/Solid	Water/Liquid	Sediments	Air			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	TPH/G/BTEX (8015/ARCO) 8260	TPH-D (8015)	MTBE (8021)	MTBE/PAHs/ETBE/DIPE, TBA (8260)	1,2-DCA & EDB (8261)	
1	MW-2	1138	X				01	3				X	X	X	X	X		
2	MW-4	1050	X				02					X	X	X	X	X		
3	MW-5	1038	X				03					X	X	X	X	X		
4	MW-6	959	X				04					X	X	X	X	X		
5	MW-7	1126	X				05					X	X	X	X	X		
6	MW-11	940	X				06					X	X	X	X	X		
7	PW-1	1005	X				07					X	X	X	X	X		
8	VW-1	1020	X				08					X	X	X	X	X		
9																		
10																		

Sampler's Name: SUTTON SUNG Relinquished By / Affiliation: \_\_\_\_\_ Date: 7/10/03 Time: 1125  
 Sampler's Company: BLANKE BETA Date: 7/10/03 Time: 1442  
 Shipment Date: \_\_\_\_\_ Accepted By / Affiliation: \_\_\_\_\_ Date: 7/10/03 Time: 1125  
 Shipment Method: \_\_\_\_\_ Date: 7/10/03 Time: 1442  
 Shipment Tracking No.: \_\_\_\_\_  
 Special Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals in Place Yes  No  Temperature Blank Yes  No  Cooler Temperature on Receipt  2 <sup>u</sup>RIC Trip Blank Yes  No

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



## SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS  
 REC. BY (PRINT) TR  
 WORKORDER: MHG 6299

DATE REC'D AT LAB: 7/10/03  
 TIME REC'D AT LAB: 1442  
 DATE LOGGED IN: 7-11-03

Drinking water for regulatory purposes: YES/NO  
 Wastewater for regulatory purposes: YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLR #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESRV VATTVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*		01		MW - 2	3) VOM	HCL	L	7/19/03	
2. Chain-of-Custody <u>Present</u> / Absent*		02		- 4					
3. Traffic Reports or Packing List: Present / <u>Absent</u>		03		- 5					
4. Airbill: Airbill / Sticker Present / <u>Absent</u>		04		- 6					
5. Airbill #:		05		- 7					
6. Sample Labels: <u>Present</u> / Absent		06		- 11					
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody		07		RW - 1					
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*		08		Vnd - 1					
9. Docs information on custody reports, traffic reports and sample labels agree? <u>Yes</u> / No*									
10. Sample received within hold time: <u>Yes</u> / No*									
11. Proper Preservatives used: <u>Yes</u> / No*									
12. Temp Rec. at Lab: <u>2°C</u> Is temp 4 +/- 2°C? <u>Yes</u> / No**									

(Acceptance range for samples requiring thermal pres.)  
 \*\*Exception (if any): Metals / DFF (Direct From Field) or Problem COC

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

**ATTACHMENT C**

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

---

## Error Summary Log

08/07/03

EDF 1.2i All files present in deliverable.

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Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #771, Livermore, CA
Work Order Number:	MMG0244
Global ID:	T0600100113
Lab Report Number:	MMG0244072820031828

## Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMG02440728200 MW-11 31828		MMG024406	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23007	1	
MMG02440728200 MW-2 31828		MMG024401	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23001	1	
MMG02440728200 MW-4 31828		MMG024402	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23001	1	
MMG02440728200 MW-5 31828		MMG024403	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23001	1	
MMG02440728200 MW-6 31828		MMG024404	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23001	1	
MMG02440728200 MW-7 31828		MMG024405	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23001	1	
MMG02440728200 RW-1 31828		MMG024407	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23007	1	
MMG02440728200 VW-1 31828		MMG024408	W	CS	8260FAB	SW5030B	07/09/03	07/23/03	07/23/03	3G23007	1	
		MMG025304	W	NC	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		MMG052508	W	NC	8260FAB	SW5030B	//	07/23/03	07/24/03	3G23007	1	
		3G23001BS1	WQ	BS1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23001	1	
		3G23001BS2	WQ	BS2	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23001	1	
		3G23001BLK1	WQ	LB1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23001	1	
		3G23001MS1	W	MS1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23001	1	
		3G23001MSD1	W	SD1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23001	1	
		3G23007BSD1	WQ	BD1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		3G23007BS1	WQ	BS1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		3G23007BS2	WQ	BS2	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		3G23007BLK1	WQ	LB1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		3G23007MS1	W	MS1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		3G23007MS2	W	MS2	8260FAB	SW5030B	//	07/23/03	07/24/03	3G23007	1	
		3G23007MSD1	W	SD1	8260FAB	SW5030B	//	07/23/03	07/23/03	3G23007	1	
		3G23007MSD2	W	SD2	8260FAB	SW5030B	//	07/23/03	07/24/03	3G23007	1	

# EDFSAMP: Error Summary Log

08/07/03

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

# EDFTEST: Error Summary Log

08/07/03

Error type	Labsampid	Qcocode	Anmcode	Exmcode	Anadate	Run number
Warning: Dulicate QC code within the batch	MMG025304	NC	8260FAB	SW5030B	07/23/03	1
Warning: Dulicate QC code within the batch	MMG052508	NC	8260FAB	SW5030B	07/24/03	1

# EDFRES: Error Summary Log

08/07/03

Error type	Labsampid	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3G23001MS1	MS1	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23001MS1	MS1	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23001MSD1	SD1	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23001MSD1	SD1	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23007MS1	MS1	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23007MS1	MS1	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23007MS2	MS2	W	8260FAB	PR	07/24/03	1	DCA12D4
Warning: extra parameter	3G23007MSD1	SD1	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23007MSD1	SD1	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23007MSD2	SD2	W	8260FAB	PR	07/24/03	1	DCA12D4
Warning: extra parameter	MMG024401	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024401	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024402	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024402	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024403	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024403	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024404	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024404	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024405	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024405	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024406	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024406	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024407	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024407	CS	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG024408	CS	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG024408	CS	W	8260FAB	PR	07/23/03	1	GROC6C10

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMG025304	NC	W	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	MMG025304	NC	W	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	MMG052508	NC	W	8260FAB	PR	07/24/03	1	DCA12D4
Warning: extra parameter	3G23001BLK1	LB1	WQ	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23001BLK1	LB1	WQ	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23001BS1	BS1	WQ	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23001BS2	BS2	WQ	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23001BS2	BS2	WQ	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23007BLK1	LB1	WQ	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23007BLK1	LB1	WQ	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23007BS1	BS1	WQ	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23007BS2	BS2	WQ	8260FAB	PR	07/23/03	1	DCA12D4
Warning: extra parameter	3G23007BS2	BS2	WQ	8260FAB	PR	07/23/03	1	GROC6C10
Warning: extra parameter	3G23007BSD1	BD1	WQ	8260FAB	PR	07/23/03	1	DCA12D4



# EDFQC: Error Summary Log

08/07/03

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

# EDFCL: Error Summary Log

08/07/03

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

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**Facility Name:** ARCO # 00771

**Submittal Title:** Third Quarter 2003 QMR ARCO #771

**Submittal Type:** GW Monitoring Report

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