



April 16, 2003

Ms. Eva Chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Alameda County
APR 30 2003
Environmental Health

**Re: First Quarter 2003 Groundwater Monitoring Report
ARCO Service Station # 0771
899 Rincon Avenue
Livermore, California
URS Project #38486090**

Dear Ms. Chu:

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

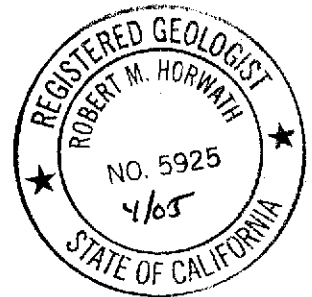
If you have any questions regarding this submission, please call (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson
Project Manager

Robert Horwath, R.G. #5925
Senior Geologist



Enclosure: First Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, P.O. Box 6549 Moraga, CA 94570
Danielle Stefani, City of Livermore Fire Dept., 4550 East Avenue, Livermore, CA 94550
John Kaiser, RWQCB, 1515 Clay St. Ste1400, Oakland, CA 94612



Atlantic Richfield Company
(a BP affiliated company)

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



Alameda County
APR 30 2003
Environmental Health

April 16, 2003

Re: First Quarter 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

R E P O R T

Alameda County
APR 30 2003
Environmental Health

**FIRST QUARTER 2003
GROUNDWATER MONITORING**

ARCO SERVICE STATION #0771
899 RINCON AVENUE
LIVERMORE, CALIFORNIA

Prepared for
Atlantic Richfield Company

April 16, 2003

URS

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

38486090

Date: April 16, 2003

Quarter: 1Q 03

ATLANTIC RICHFIELD COMPANY QUARTERLY GROUNDWATER MONITORING REPORT

Former 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.: 38486090
Primary Agency: Alameda County Health Care Service Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (First – 2003):

1. Performed first quarter 2003 groundwater monitoring event on January 15, 2003.
2. Prepared and submitted fourth quarter 2002 quarterly status report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2003):

1. Prepare and submit first quarter 2003 groundwater monitoring report
2. Prepare second quarter status report.

Current Phase of Project:	<u>GW monitoring/sampling</u>
Frequency of Groundwater Sampling:	<u>Annual (3rd Qtr): MW-2, MW-5, MW-11</u> <u>Semi-Annual (1st/3rd Qtr): MW-4, MW-6, MW-7, RW-1, VW-1</u>
Frequency of Groundwater Monitoring:	<u>Semi-annual</u>
Is Free Product (FP) Present On-Site:	<u>No</u>
Cumulative FP Recovered to Date :	<u>3.06 gallons, Wells MW-1, MW-2, and MW-5</u>
FP Recovered This Quarter :	<u>None (FP was last recovered in 1992)</u>
Bulk Soil Removed to Date :	<u>1,700 cubic yards of TPH-impacted soil</u>
Current Remediation Techniques:	<u>Natural Attenuation</u>
Approximate Depth to Groundwater:	<u>21.78 (MW-9) to 27.10 (MW-8) feet</u>
Groundwater Gradient (direction):	<u>Variable (ranging from northeast to southeast)</u>
Groundwater Gradient (magnitude):	<u>Variable (0.038 – 0.016 ft/ft)</u>

DISCUSSION:

TPH-g was detected in four of the five wells sampled this quarter at concentrations ranging from 83 µg/L (MW-6) to 12,000 µg/L (MW-7). Benzene was detected in four wells at concentrations ranging from 9.0 µg/L (RW-1) to 470 µg/L (MW-7). MTBE was detected in four wells at concentrations ranging from 1.0 µg/L (MW-6) to 150 µg/L (MW-4). Tert-butyl alcohol (TBA) was detected in two wells at concentrations of 330 µg/L (MW-7) and 690 µg/L (MW-4). Tert-amyl methyl ether was detected in MW-7 at 14 µg/L, and 1,2-Dichloro-ethane was also in MW-7 at 0.88 µg/L.

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:

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Groundwater Flow Direction and Gradient
- Table 3 – Oxygenate Analytical Data
- Figure 1 - Groundwater Elevation Contour and Analytical Summary Map – January 15, 2003
- 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

Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to 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)	
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 ²			22.99	428.74	Not sampled: well no longer part of sampling schedule						

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Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to 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)
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 ¹	280	13	120	19	16	0.8
	1/15/03 ²			22.18	427.31	Not sampled: well sampled annually, during the third quarter						

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Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to 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)	
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						
	1/15/03²			22.88	427.40	Not sampled: well no longer part of sampling schedule						

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899 Rincon Avenue, Livermore, California

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to 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)
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 ¹	150	9.9	ND<5.0	ND<5.0	130	1.0
	1/15/03 ²			23.56	427.53	4,800 ¹	150	5.3	28	46	150	1.3

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Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to 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)	
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 ¹	170	7.0	120	ND<5.0	180	1.7
	1/15/03 ²			23.12	428.28	Well sampled annually during the third quarter						

Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to 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)	
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 ¹	2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.5	
	1/15/03 ²			22.86	428.51	83 ¹	9.1	ND<0.50	3.4	4.6	1.0	2.5	

Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to 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)	
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						
	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 ¹	630	31	330	160	64	0.7
	1/15/03 ²			21.91	428.42	12,000 ¹	470	19	340	310	91	1.5

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Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to 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)
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 ²			27.10	422.33	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	Well Elevation (feet, MSL)	Depth to 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)	
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 ²			21.78	427.43	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	Well Elevation (feet, MSL)	Depth to 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)
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 ²		23.09	426.13	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	Well Elevation (feet, MSL)	Depth to 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)	
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						
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
	1/15/03 ²			23.75	424.27	Not sampled: well sampled annually, during the third quarter						

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Groundwater Elevation and Analytical Data**

ARCO Service Station # 0771
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Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to 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)	
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	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
	1/15/03²			22.20	429.47	860¹	9.0	1.6	17	42	1.5	2.8

Table 1
Groundwater Elevation and Analytical Data**

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

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to 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)
VW-1	08/31/00	P	--	20.61	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	10.08
	02/09/01	P	--	22.10	--	ND<50.0	ND<0.500	ND<0.500	ND<0.500	ND<0.500	0.53
	09/17/01	P	--	21.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.59
	01/21/02	P	--	21.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.70
	07/19/02	P		22.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.9
	1/15/03 ²			22.59	--	ND<50	ND<0.50	ND<0.50	0.63	1.7	ND<0.50

Notes

TPH-g = Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B modified

BTEX = Benzene, toluene, ethly benzene, and total xylenes analyzed using EPA Method8021B

* = 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

Date Measured	Average Flow Direction	Average Hydraulic Gradient
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

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.

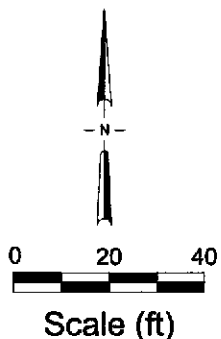
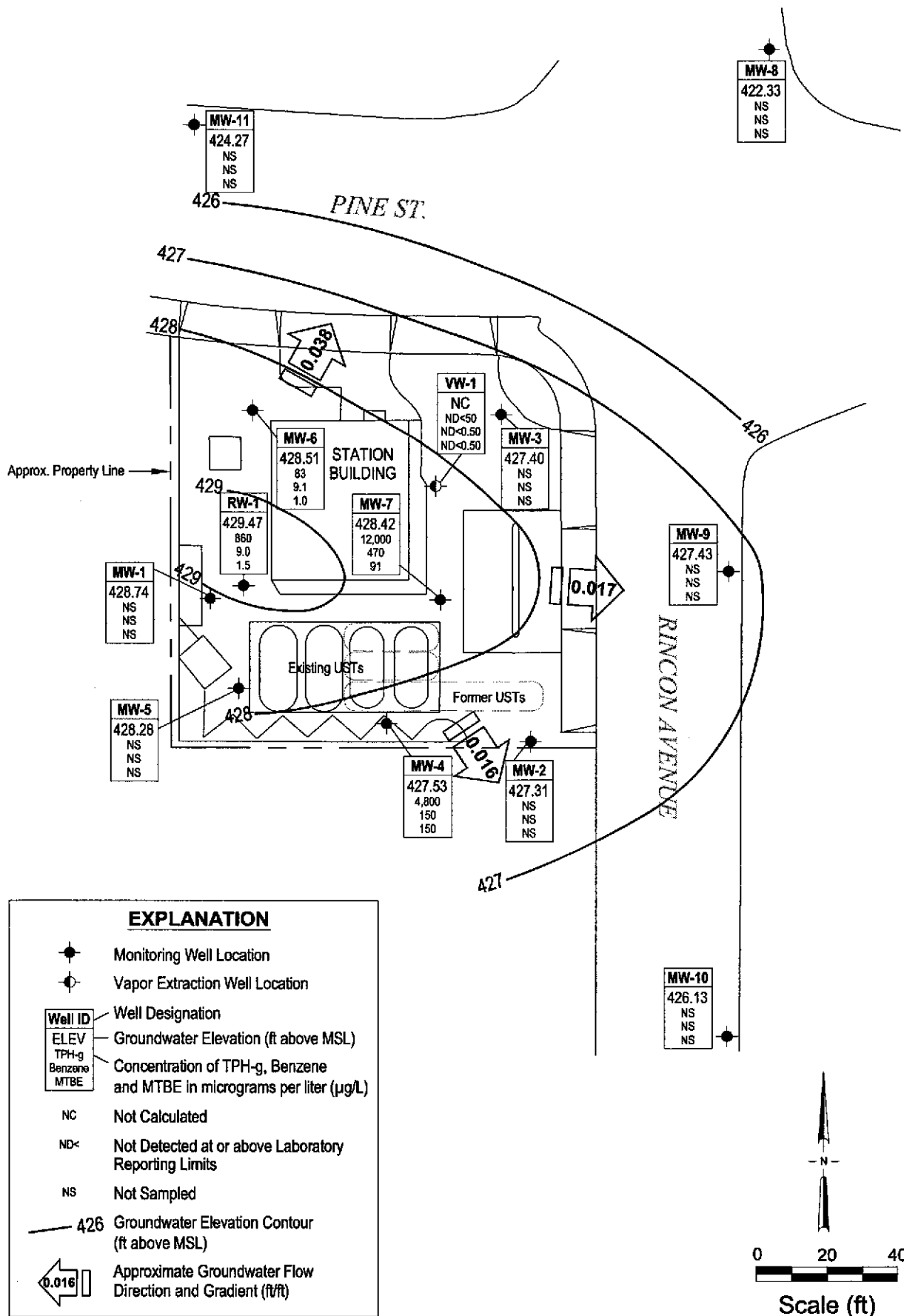
Table 3
Oxygenate Analytical Data

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-4	01/15/03	ND<200	690	150	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-6	01/15/03	ND<40	ND<20	1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	01/15/03	ND<40	330	91	0.96	ND<0.50	14	0.88	ND<0.50
RW-1	01/15/03	ND<40	ND<20	1.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
VW-1	01/15/03	ND<40	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

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Project No. 38486090
 ARCO Service Station 0771
 899 Rincon Avenue
 Livermore, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
 First Quarter 2003 (January 15, 2003)

FIGURE
 1

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 # 030115-RHZ Date 1/15/03 Client ~~AVCO~~ Avco FFI

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 TOC	
MW-1	4					22.99	36.85		
MW-2	4					22.18	34.19		
MW-3	4					22.88	39.59		
MW-4	4					23.56	41.25		NPC@26 S
MW-5	4					23.12	40.19		
MW-6	4					22.86	43.22		S
MW-7	4	odor				21.91	39.67		S
MW-8	2					27.16	41.50		
MW-9	2					21.78	39.05		
MW-10	2					23.09	36.27		
MW-11	2					23.75	38.59		
MW-12	6					22.20	39.75		NPC@25.55
MW-13	4					22.59	28.19		S

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030115-R112	Station # 771
Sampler: Ryan H.	Date: 1/15/03
Well I.D.: mw-6	Well Diameter: 2 3 4 6 8
Total Well Depth: 43.22	Depth to Water: 22.86
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Purge Method: Bailer	Sampling Method: Bailer
Disposable Bailer	Disposable Bailer
Middleburg	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.

13.2	x	3	=	39.6	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1212	68.2	7.4	839	13.2	cloudy
1215	68.9	7.2	808	26.4	turbid
1217	68.9	7.2	867	39.6	clear

Did well dewater? Yes No	Gallons actually evacuated: 39.6
Sampling Time: 1222	Sampling Date: 1/15/03
Sample I.D.: mw-6	Laboratory: Pace Sequoia Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: oxygenates, ethanol, 1,2-DCA + EDB	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: 2.5 mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030115-RH2	Station # 771
Sampler: Ryan H.	Date: 1/15/03
Well I.D.: MW-7	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 39.67	Depth to Water: 21.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>FVO</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: <u>Bailer</u> Disposable Bailer Middleburg <u>Electric Submersible</u> Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
--	---

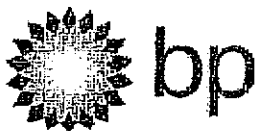
Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>11.5</u>	X	<u>3</u>	=	<u>34.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or <u>µS</u>)	Gals. Removed	Observations
1307	70.0	7.1	1163	11.5	clear, odor
1309	70.2	7.1	1155	23.0	" "
1311	69.8	7.0	1137	34.5	" "

Did well dewater? Yes <input type="radio"/> <u>No</u> <input checked="" type="radio"/>	Gallons actually evacuated: <u>34.5</u>
Sampling Time: <u>1316</u>	Sampling Date: <u>1/15/03</u>
Sample I.D.: <u>MW-7</u>	Laboratory: Pace <u>Sequoia</u> Other _____

Analyzed for: <u>TPH-G</u> <u>BTEX</u> MTBE TPH-D Other: <u>oxygenates, ethanol, 1,2-DCA + EDB</u>			
D.O. (if req'd):	Pre-purge:	mEq/L	Post-purge: <u>1.5</u> mEq/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV



Chain of Custody Record

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____

Date: 1/15/03 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: Latonya Pelt	BP/GEM PM Contact: PAUL SUPPLE	Consultant Tele/Fax: 510-874-1735/510-874-3268
Tele/Fax: 408-776-9800 / 408-782-6308	Address:	Consultant/Contractor PM: Scott Robinson
Report Type & QC Level: Send EDF Reports	Tele/Fax:	Invoice to: Consultant/Contractor or BP/GEM (Circle one)
BP/GEM Account No.:		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 ₂ SO ₄	HNO ₃	HCl	TPH-G/BTEX (8015 / 8021)	TPH -D (8015)	MTBE (8021)	MTBE, TAME, ETBE DPE, TBA (8260)	1,2-DCA & EDB (8260)	
1	MW-4	1256	X				6					X			X	X	X	
2	MW-6	1222	X				6								X	X	X	
3	MW-7	1316	X				6								X	X	X	
4	RW-1	1200	X				6								X	X	X	
5	RW-1	1236	X				6								X	X	X	
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Ryan Hamstedt</u>	Relinquished By / Affiliation: <u>[Signature] / BTS</u>	Date: <u>1/16/03</u>	Time: <u>1312</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>1/16/03</u>	Time: <u>1312</u>
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 Y/N Trip Blank Yes No

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 1/15/03

Site Address 899 Rincon Ave., Livermore

Job Number 030115-RH2 Technician Ryan Hanstedt

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X							
MW-2	X							
MW-3	X							
MW-4	X							
MW-5	X							
MW-6	X							
MW-7	✓							
MW-8	X							
MW-9	X					X		
MW-10	X							
MW-11								X
RW-1	X							
VA-1	X							

NOTES: _____

BP GEM OIL COMPANY TYPE A BILL OF LADING

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

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

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

Station #		
771		
Station Address		
899 Rincon Ave, Livermore		
Total Gallons Collected From Groundwater Monitoring Wells:		
187.0		
added equip.	3.0	any other adjustments
rinse water		
TOTAL GALS.		loaded onto
RECOVERED	190.0	BTS vehicle # 15
BTS event #	time	date
030115-RH2	1330	1 / 15 / 03
signature	[Signature]	

REC'D AT	time	date
		1 / 1
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 Group Environmental Management Company have been reviewed and verified by that laboratory.



**Sequoia
Analytical**

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

19 February, 2003

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

RE: ARCO #771, Livermore, Ca
Sequoia Work Order: MMA0388

Enclosed are the results of analyses for samples received by the laboratory on 01/16/03
14:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya Pelt
Project Manager
CA ELAP Certificate #1210



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

Project: ARCO #771, Livermore, Ca
Project Number: ARCO #771, Livermore, CA
Project Manager: Scott Robinson

MMA0388
Reported:
02/19/03 07:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MMA0388-01	Water	01/15/03 12:56	01/16/03 14:45
MW-6	MMA0388-02	Water	01/15/03 12:22	01/16/03 14:45
MW-7	MMA0388-03	Water	01/15/03 13:16	01/16/03 14:45
RW-1	MMA0388-04	Water	01/15/03 12:00	01/16/03 14:45
VW-1	MMA0388-05	Water	01/15/03 12:36	01/16/03 14:45

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



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

Project: ARCO #771, Livermore, Ca
Project Number: ARCO #771, Livermore, CA
Project Manager: Scott Robinson

MMA0388
Reported:
02/19/03 07:48

**Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MMA0388-01) Water Sampled: 01/15/03 12:56 Received: 01/16/03 14:45									
Gasoline Range Organics (C6-C10)	4800	500	ug/l	10	3A28002	01/28/03	01/28/03	8015Bm	HC-21
Surrogate: a,a,a-Trifluorotoluene		114 %	55-142		"	"	"	"	
MW-6 (MMA0388-02) Water Sampled: 01/15/03 12:22 Received: 01/16/03 14:45									
Gasoline Range Organics (C6-C10)	83	50	ug/l	1	3A24001	01/24/03	01/24/03	8015Bm	HC-21
Surrogate: a,a,a-Trifluorotoluene		83.0 %	55-142		"	"	"	"	
MW-7 (MMA0388-03) Water Sampled: 01/15/03 13:16 Received: 01/16/03 14:45									
Gasoline Range Organics (C6-C10)	12000	5000	ug/l	100	3A24001	01/24/03	01/24/03	8015Bm	HC-21
Surrogate: a,a,a-Trifluorotoluene		78.3 %	55-142		"	"	"	"	
RW-1 (MMA0388-04) Water Sampled: 01/15/03 12:00 Received: 01/16/03 14:45									
Gasoline Range Organics (C6-C10)	860	50	ug/l	1	3A24001	01/24/03	01/24/03	8015Bm	HC-21
Surrogate: a,a,a-Trifluorotoluene		123 %	55-142		"	"	"	"	
VW-1 (MMA0388-05) Water Sampled: 01/15/03 12:36 Received: 01/16/03 14:45									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	3A24001	01/24/03	01/24/03	8015Bm	
Surrogate: a,a,a-Trifluorotoluene		87.1 %	55-142		"	"	"	"	

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

 Project: ARCO #771, Livermore, Ca
 Project Number: ARCO #771, Livermore, CA
 Project Manager: Scott Robinson

 MMA0388
Reported:
 02/19/03 07:48

BTEX by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MMA0388-01) Water Sampled: 01/15/03 12:56 Received: 01/16/03 14:45									
Benzene	150	2.5	ug/l	5	3A22033	01/22/03	01/23/03	EPA 8260B	
Toluene	5.3	2.5	"	"	"	"	"	"	
Ethylbenzene	28	2.5	"	"	"	"	"	"	
Xylenes (total)	46	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	78-129		"	"	"	"	
MW-6 (MMA0388-02) Water Sampled: 01/15/03 12:22 Received: 01/16/03 14:45									
Benzene	9.1	0.50	ug/l	1	3A22033	01/22/03	01/23/03	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	3.4	0.50	"	"	"	"	"	"	
Xylenes (total)	4.6	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.6 %	78-129		"	"	"	"	
MW-7 (MMA0388-03) Water Sampled: 01/15/03 13:16 Received: 01/16/03 14:45									
Benzene	470	10	ug/l	20	3A27011	01/27/03	01/28/03	EPA 8260B	
Toluene	19	10	"	"	"	"	"	"	
Ethylbenzene	340	10	"	"	"	"	"	"	
Xylenes (total)	310	10	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.8 %	78-129		"	"	"	"	
RW-1 (MMA0388-04) Water Sampled: 01/15/03 12:00 Received: 01/16/03 14:45									
Benzene	9.0	0.50	ug/l	1	3A27011	01/27/03	01/28/03	EPA 8260B	
Toluene	1.6	0.50	"	"	"	"	"	"	
Ethylbenzene	17	0.50	"	"	"	"	"	"	
Xylenes (total)	42	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	78-129		"	"	"	"	



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

Project: ARCO #771, Livermore, Ca
Project Number: ARCO #771, Livermore, CA
Project Manager: Scott Robinson

MMA0388
Reported:
02/19/03 07:48

**BTEX by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VW-1 (MMA0388-05) Water Sampled: 01/15/03 12:36 Received: 01/16/03 14:45									
Benzene	ND	0.50	ug/l	1	3A22033	01/22/03	01/23/03	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	0.63	0.50	"	"	"	"	"	"	
Xylenes (total)	1.7	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>89.2 %</i>	<i>78-129</i>						

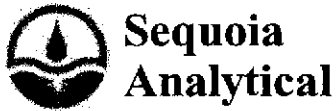
URS Corporation
500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #771, Livermore, Ca
Project Number: ARCO #771, Livermore, CA
Project Manager: Scott Robinson

MMA0388
Reported:
02/19/03 07:48

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MMA0388-01) Water Sampled: 01/15/03 12:56 Received: 01/16/03 14:45									
Ethanol	ND	200	ug/l	5	3A22033	01/22/03	01/23/03	EPA 8260B	
tert-Butyl alcohol	690	100	"	"	"	"	"	"	
Methyl tert-butyl ether	150	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	78-129		"	"	"	"	
MW-6 (MMA0388-02) Water Sampled: 01/15/03 12:22 Received: 01/16/03 14:45									
Ethanol	ND	40	ug/l	1	3A22033	01/22/03	01/23/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.0	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.6 %	78-129		"	"	"	"	
MW-7 (MMA0388-03) Water Sampled: 01/15/03 13:16 Received: 01/16/03 14:45									
Ethanol	ND	40	ug/l	1	3A22033	01/22/03	01/23/03	EPA 8260B	
tert-Butyl alcohol	330	20	"	"	"	"	"	"	
Methyl tert-butyl ether	91	0.50	"	"	"	"	"	"	
Di-isopropyl ether	0.96	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	14	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	0.88	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	78-129		"	"	"	"	



**Sequoia
Analytical**

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500 12th Street, Suite 100
Oakland CA, 94607

Project: ARCO #771, Livermore, Ca
Project Number: ARCO #771, Livermore, CA
Project Manager: Scott Robinson

MMA0388
Reported:
02/19/03 07:48

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-1 (MMA0388-04) Water Sampled: 01/15/03 12:00 Received: 01/16/03 14:45									
Ethanol	ND	40	ug/l	1	3A22033	01/22/03	01/23/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	1.5	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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.4 %	78-129		"	"	"	"	
VW-1 (MMA0388-05) Water Sampled: 01/15/03 12:36 Received: 01/16/03 14:45									
Ethanol	ND	40	ug/l	1	3A22033	01/22/03	01/23/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		89.2 %	78-129		"	"	"	"	

Sequoia Analytical - Morgan Hill

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URS Corporation 500 12th Street, Suite 100 Oakland CA, 94607	Project: ARCO #771, Livermore, Ca Project Number: ARCO #771, Livermore, CA Project Manager: Scott Robinson	MMA0388 Reported: 02/19/03 07:48
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Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A24001 - EPA 5030B [P/T]										
Blank (3A24001-BLK1) Prepared & Analyzed: 01/24/03										
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Surrogate: a,a,a-Trifluorotoluene	8.55		"	10.0		85.5	55-142			
Laboratory Control Sample (3A24001-BS1) Prepared & Analyzed: 01/24/03										
Gasoline Range Organics (C6-C10)	256	50	ug/l	250		102	62-134			
Surrogate: a,a,a-Trifluorotoluene	8.40		"	10.0		84.0	55-142			
Matrix Spike (3A24001-MS1) Source: MMA0382-03 Prepared & Analyzed: 01/24/03										
Gasoline Range Organics (C6-C10)	448	50	ug/l	550	ND	81.5	62-134			O-11
Surrogate: a,a,a-Trifluorotoluene	9.83		"	10.0		98.3	55-142			
Matrix Spike Dup (3A24001-MSD1) Source: MMA0382-03 Prepared & Analyzed: 01/24/03										
Gasoline Range Organics (C6-C10)	581	50	ug/l	550	ND	106	62-134	25.9	41	O-11
Surrogate: a,a,a-Trifluorotoluene	11.0		"	10.0		110	55-142			
Batch 3A28002 - EPA 5030B [P/T]										
Blank (3A28002-BLK1) Prepared & Analyzed: 01/28/03										
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Surrogate: a,a,a-Trifluorotoluene	9.75		"	10.0		97.5	55-142			
Laboratory Control Sample (3A28002-BS1) Prepared & Analyzed: 01/28/03										
Surrogate: a,a,a-Trifluorotoluene	9.80		ug/l	10.0		98.0	55-142			
Laboratory Control Sample (3A28002-BS2) Prepared & Analyzed: 01/28/03										
Gasoline Range Organics (C6-C10)	253	50	ug/l	250		101	62-134			
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	55-142			

Sequoia Analytical - Morgan Hill

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MMA0388
Reported:
02/19/03 07:48

**BTEX 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 3A22033 - EPA 5030B P/T

Blank (3A22033-BLK1)

Prepared: 01/22/03 Analyzed: 01/23/03

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4 4.77 " 5.00 95.4 78-129

Laboratory Control Sample (3A22033-BS1)

Prepared: 01/22/03 Analyzed: 01/23/03

Benzene	8.95	0.50	ug/l	10.0		89.5	78-124			
Toluene	8.64	0.50	"	10.0		86.4	78-129			

Surrogate: 1,2-Dichloroethane-d4 4.57 " 5.00 91.4 78-129

Laboratory Control Sample Dup (3A22033-BSD1)

Prepared: 01/22/03 Analyzed: 01/23/03

Benzene	8.86	0.50	ug/l	10.0		88.6	78-124	1.01	12	
Toluene	8.64	0.50	"	10.0		86.4	78-129	0.00	10	

Surrogate: 1,2-Dichloroethane-d4 4.56 " 5.00 91.2 78-129

Batch 3A27011 - EPA 5030B P/T

Blank (3A27011-BLK1)

Prepared: 01/27/03 Analyzed: 01/28/03

Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							

Surrogate: 1,2-Dichloroethane-d4 4.71 " 5.00 94.2 78-129

Laboratory Control Sample (3A27011-BS1)

Prepared & Analyzed: 01/27/03

Benzene	8.57	0.50	ug/l	10.0		85.7	78-124			
Toluene	8.88	0.50	"	10.0		88.8	78-129			

Surrogate: 1,2-Dichloroethane-d4 4.66 " 5.00 93.2 78-129

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Project: ARCO #771, Livermore, Ca
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 Project Manager: Scott Robinson

MMA0388
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 02/19/03 07:48

BTEX 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 3A27011 - EPA 5030B P/T										
Laboratory Control Sample (3A27011-BS2)										
Prepared & Analyzed: 01/27/03										
Benzene	4.82	0.50	ug/l	5.44		88.6	78-124			
Toluene	28.0	0.50	"	32.8		85.4	78-129			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.84</i>		<i>"</i>	<i>5.00</i>		<i>96.8</i>	<i>78-129</i>			
Laboratory Control Sample Dup (3A27011-BSD1)										
Prepared & Analyzed: 01/27/03										
Benzene	8.93	0.50	ug/l	10.0		89.3	78-124	4.11	12	
Toluene	9.08	0.50	"	10.0		90.8	78-129	2.23	10	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.72</i>		<i>"</i>	<i>5.00</i>		<i>94.4</i>	<i>78-129</i>			
Laboratory Control Sample Dup (3A27011-BSD2)										
Prepared: 01/27/03 Analyzed: 01/28/03										
Benzene	4.93	0.50	ug/l	5.44		90.6	78-124	2.26	12	
Toluene	29.0	0.50	"	32.8		88.4	78-129	3.51	10	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.76</i>		<i>"</i>	<i>5.00</i>		<i>95.2</i>	<i>78-129</i>			

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 02/19/03 07:48

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 3A22033 - EPA 5030B P/T										
Blank (3A22033-BLK1)					Prepared: 01/22/03 Analyzed: 01/23/03					
Ethanol	ND	40	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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.77		"	5.00		95.4	78-129			
Laboratory Control Sample (3A22033-BS1)					Prepared: 01/22/03 Analyzed: 01/23/03					
Methyl tert-butyl ether	9.32	0.50	ug/l	10.0		93.2	63-137			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.57		"	5.00		91.4	78-129			
Laboratory Control Sample Dup (3A22033-BSD1)					Prepared: 01/22/03 Analyzed: 01/23/03					
Methyl tert-butyl ether	9.25	0.50	ug/l	10.0		92.5	63-137	0.754	13	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.56		"	5.00		91.2	78-129			

Sequoia Analytical - Morgan Hill

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Project: ARCO #771, Livermore, Ca
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Project Manager: Scott Robinson

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Reported:
02/19/03 07:48

Notes and Definitions

HC-21 Chromatogram Pattern: Gasoline C6-C10

O-11 The continuing calibration standard was outside of the acceptance criteria. This should be considered in evaluating the result for its intended purpose.

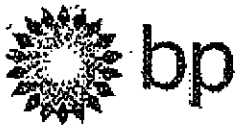
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record

MMA 0388

Project Name _____
 BP BU/GEM CO Portfolio: _____
 BP Laboratory Contract Number: _____
 Date: 1/13/03 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.: JS-00000771.01 00427
Lab PM: Latonya 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	Tele/Fax: _____	Invoice to: Consultant/Contractor or (BP/GEM) (Circle one)
BP/GEM Account No.:		BP/GEM Work Release No: INTRIM-50867

Item No.	Sample Description	Time	Matrix				Laboratory No.	Nn. 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	TPH-G/BTEX (8015/8021)	TPH-D (8015)	MTBE (8021)	MTBE, TAME, ETBE, DIPE, TBA (8260)		1,2-DCA & EDB (8260)
1	MW-4	1256	X			✓ 01	6					X			X			
2	MW-6	1222	X			✓ 02	6					X			X			
3	MW-7	1316	X			✓ 03	6					X			X			
4	RW-1	1200	X			✓ 04	6					X			X			
5	RW-1	1236	X			✓ 05	6					X			X			
6																		
7																		
8																		
9																		
10																		

Sampler's Name: <u>Ryan Hamstedt</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>1/16/03</u>	Time: <u>1312</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>1/16/03</u>	Time: <u>1312</u>
Sampler's Company: <u>Blaine Tech</u>	<u>[Signature]</u>	<u>1/16/03</u>	<u>1445</u>	<u>[Signature]</u>	<u>1/16/03</u>	<u>1445</u>
Instrument Date: _____						
Instrument Method: _____						
Tracking No: _____						

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

In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 4 °F(C) Trip Blank Yes No

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

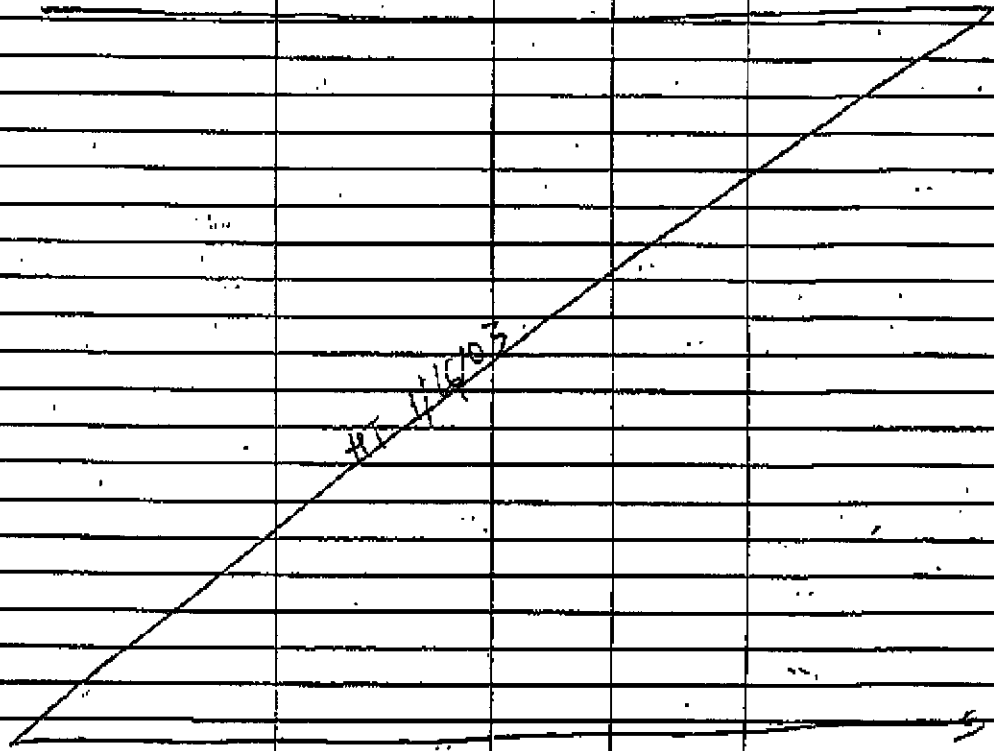
SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: URS
 REC. BY (PRINT) HT
 WORKORDER: mmA0388

DATE Received at Lab: 1/16/03
 TIME Received at Lab: 1445
 LOG IN DATE: 1-17-03

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

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (EFC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*	01		MW4	6 Vol + (0L)	L	1/15	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*	02		MWG	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent	03		MW7	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent	04		EW1	↓	↓	↓	
5. Airbill #:	05		VW1				
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent							
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody							
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*							
10. Sample received within hold time: <input checked="" type="checkbox"/> Yes / No*							
11. Proper Preservatives used: <input checked="" type="checkbox"/> Yes / No*							
12. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / No**							
(Acceptance range for samples requiring thermal pres.) **Exception (if any): Metals / DFB on ice? / DFB no ice? 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

03/25/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	ARCO #771, Livermore, Ca
Work Order Number:	MMA0388
Global ID:	T0600100113
Lab Report Number:	MMA0388021920030748

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMA03880219200 MW-4 30748		MMA038801	W	CS	8260+OX	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 MW-4 30748		MMA038801	W	CS	SW8015	SW5030B	01/15/03	01/28/03	01/28/03	3A28002	1	
MMA03880219200 MW-4 30748		MMA038801	W	CS	SW8260B	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 MW-6 30748		MMA038802	W	CS	8260+OX	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 MW-6 30748		MMA038802	W	CS	SW8015	SW5030B	01/15/03	01/24/03	01/24/03	3A24001	1	
MMA03880219200 MW-6 30748		MMA038802	W	CS	SW8260B	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 MW-7 30748		MMA038803	W	CS	8260+OX	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 MW-7 30748		MMA038803	W	CS	SW8015	SW5030B	01/15/03	01/24/03	01/24/03	3A24001	1	
MMA03880219200 MW-7 30748		MMA038803	W	CS	SW8260B	SW5030B	01/15/03	01/27/03	01/28/03	3A27011	1	
MMA03880219200 RW-1 30748		MMA038804	W	CS	8260+OX	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 RW-1 30748		MMA038804	W	CS	SW8015	SW5030B	01/15/03	01/24/03	01/24/03	3A24001	1	
MMA03880219200 RW-1 30748		MMA038804	W	CS	SW8260B	SW5030B	01/15/03	01/27/03	01/28/03	3A27011	1	
MMA03880219200 VW-1 30748		MMA038805	W	CS	8260+OX	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
MMA03880219200 VW-1 30748		MMA038805	W	CS	SW8015	SW5030B	01/15/03	01/24/03	01/24/03	3A24001	1	
MMA03880219200 VW-1 30748		MMA038805	W	CS	SW8260B	SW5030B	01/15/03	01/22/03	01/23/03	3A22033	1	
		MMA0388203	W	NC	SW8015	SW5030B	//	01/24/03	01/24/03	3A24001	1	
		MMA040603	W	NC	SW8015	SW5030B	//	01/28/03	01/28/03	3A28002	1	
		3A22033BSD1	WQ	BD1	8260+OX	SW5030B	//	01/22/03	01/23/03	3A22033	1	
		3A22033BSD1	WQ	BD1	SW8260B	SW5030B	//	01/22/03	01/23/03	3A22033	1	
		3A22033BS1	WQ	BS1	8260+OX	SW5030B	//	01/22/03	01/23/03	3A22033	1	
		3A22033BS1	WQ	BS1	SW8260B	SW5030B	//	01/22/03	01/23/03	3A22033	1	
		3A22033BLK1	WQ	LB1	8260+OX	SW5030B	//	01/22/03	01/23/03	3A22033	1	
		3A22033BLK1	WQ	LB1	SW8260B	SW5030B	//	01/22/03	01/23/03	3A22033	1	
		3A24001BS1	WQ	BS1	SW8015	SW5030B	//	01/24/03	01/24/03	3A24001	1	
		3A24001BLK1	WQ	LB1	SW8015	SW5030B	//	01/24/03	01/24/03	3A24001	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
		3A24001MS1	W	MS1	SW8015	SW5030B	//	01/24/03	01/24/03	3A24001	1
		3A24001MSD1	W	SD1	SW8015	SW5030B	//	01/24/03	01/24/03	3A24001	1
		3A27011BSD1	WQ	BD1	SW8260B	SW5030B	//	01/27/03	01/27/03	3A27011	1
		3A27011BSD2	WQ	BD2	SW8260B	SW5030B	//	01/27/03	01/28/03	3A27011	1
		3A27011BS1	WQ	BS1	SW8260B	SW5030B	//	01/27/03	01/27/03	3A27011	1
		3A27011BS2	WQ	BS2	SW8260B	SW5030B	//	01/27/03	01/27/03	3A27011	1
		3A27011BLK1	WQ	LB1	SW8260B	SW5030B	//	01/27/03	01/28/03	3A27011	1
		3A28002BS1	WQ	BS1	SW8015	SW5030B	//	01/28/03	01/28/03	3A28002	1
		3A28002BS2	WQ	BS2	SW8015	SW5030B	//	01/28/03	01/28/03	3A28002	1
		3A28002BLK1	WQ	LB1	SW8015	SW5030B	//	01/28/03	01/28/03	3A28002	1
		3A28002MS1	W	MS1	SW8015	SW5030B	//	01/28/03	01/28/03	3A28002	1
		3A28002MSD1	W	SD1	SW8015	SW5030B	//	01/28/03	01/28/03	3A28002	1

EDFSAMP: Error Summary Log

03/25/03

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

EDFTEST: Error Summary Log

03/25/03

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

EDFRES: Error Summary Log

03/25/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	3A24001MS1	MS1	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	3A24001MS1	MS1	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	3A24001MSD1	SD1	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	3A24001MSD1	SD1	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	3A28002MS1	MS1	W	SW8015	PR	01/28/03	1	AAATFBZME
Warning: extra parameter	3A28002MS1	MS1	W	SW8015	PR	01/28/03	1	GROC6C10
Warning: extra parameter	3A28002MSD1	SD1	W	SW8015	PR	01/28/03	1	AAATFBZME
Warning: extra parameter	3A28002MSD1	SD1	W	SW8015	PR	01/28/03	1	GROC6C10
Warning: extra parameter	MMA038203	NC	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	MMA038203	NC	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	MMA038801	CS	W	SW8015	PR	01/28/03	1	AAATFBZME
Warning: extra parameter	MMA038801	CS	W	SW8015	PR	01/28/03	1	GROC6C10
Warning: extra parameter	MMA038801	CS	W	SW8260B	PR	01/23/03	1	XYLENES
Warning: extra parameter	MMA038802	CS	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	MMA038802	CS	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	MMA038802	CS	W	SW8260B	PR	01/23/03	1	XYLENES
Warning: extra parameter	MMA038803	CS	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	MMA038803	CS	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	MMA038803	CS	W	SW8260B	PR	01/28/03	1	XYLENES
Warning: extra parameter	MMA038804	CS	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	MMA038804	CS	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	MMA038804	CS	W	SW8260B	PR	01/28/03	1	XYLENES
Warning: extra parameter	MMA038805	CS	W	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	MMA038805	CS	W	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	MMA038805	CS	W	SW8260B	PR	01/23/03	1	XYLENES
Warning: extra parameter	MMA040603	NC	W	SW8015	PR	01/28/03	1	AAATFBZME

Error type	LabsampId	Qcocode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMA040603	NC	W	SW8015	PR	01/28/03	1	GROC6C10
Warning: extra parameter	3A22033BLK1	LB1	WQ	SW8260B	PR	01/23/03	1	XYLENES
Warning: extra parameter	3A24001BLK1	LB1	WQ	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	3A24001BLK1	LB1	WQ	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	3A24001BS1	BS1	WQ	SW8015	PR	01/24/03	1	AAATFBZME
Warning: extra parameter	3A24001BS1	BS1	WQ	SW8015	PR	01/24/03	1	GROC6C10
Warning: extra parameter	3A27011BLK1	LB1	WQ	SW8260B	PR	01/28/03	1	XYLENES
Warning: extra parameter	3A28002BLK1	LB1	WQ	SW8015	PR	01/28/03	1	AAATFBZME
Warning: extra parameter	3A28002BLK1	LB1	WQ	SW8015	PR	01/28/03	1	GROC6C10
Warning: extra parameter	3A28002BS1	BS1	WQ	SW8015	PR	01/28/03	1	AAATFBZME
Warning: extra parameter	3A28002BS2	BS2	WQ	SW8015	PR	01/28/03	1	AAATFBZME
Warning: extra parameter	3A28002BS2	BS2	WQ	SW8015	PR	01/28/03	1	GROC6C10

EDFQC: Error Summary Log

03/25/03

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

EDFCL: Error Summary Log

03/25/03

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

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