

October 15, 2002

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

Re: **Quarterly Groundwater Monitoring Report
Second Quarter 2002**
ARCO Service Station No. 0601
712, Lewelling Boulevard
San Leandro, California
URS Project # 38465882

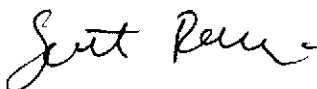
Dear Ms. Uchman:

On behalf of ARCO (affiliated to Group Environmental Management Company), URS Corporation (URS) is pleased to submit the Quarterly Groundwater Monitoring Report. This report presents the results of the second quarter 2002 groundwater monitoring program at ARCO Service Station No. 0601 located at 712, Lewelling Boulevard San Leandro, California. The monitoring program complies with the Alameda County Health Care Services Agency (ACHCSA) requirements regarding Underground Storage Tank (UST) investigations.

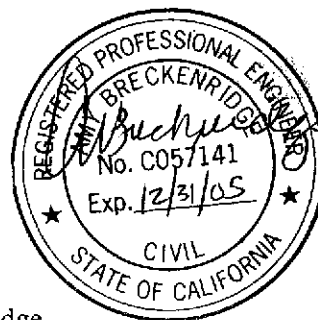
Please call us at 510-893-3600 if you have questions.

Sincerely,

URS CORPORATION



Scott Robinson
Project Manager



Amy Breckenridge
Portfolio Manager

Attachments: Monitoring and Remediation System Performance Report, Second Quarter 2002
SVE Quarterly Operation and Performance, Second Quarter 2002

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570
Mr. Mike Bakaldin - Alameda County Fire Department Environmental Services Division, City of San Leandro, 835 E. 14th St, San Leandro, CA 94577

Quarterly Groundwater Monitoring Report

Second Quarter 2002

**ARCO Service Station No. 601
712 Lewelling Boulevard,
San Leandro, California
URS Project # 38465882**

Prepared For:

Mr. Paul Supple
ARCO

October 15, 2002

Prepared By:

URS Corporation.
500 12th Street, Suite 200
Oakland, CA 94607-4014

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Station No.: 601	Address: 712 Lewelling Boulevard, San Leandro, CA
ARCO Environmental Engineer/Phone No.: Paul Supple 925-299-8891	
Consulting Co./Contact Person URS Corporation / Scott Robinson 510-893-3600	
Consultant Project No.: 38465882	
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency	

WORK PERFORMED THIS QUARTER (SECOND -- 2002)

1. Performed quarterly groundwater monitoring for second quarter 2002.
2. Prepared and submitted quarterly groundwater monitoring report for first quarter 2002.

WORK PROPOSED FOR NEXT QUARTER (THIRD -- 2002)

1. Prepare and submit quarterly groundwater monitoring report for second quarter 2002.
2. Perform quarterly groundwater monitoring and sampling for third quarter 2002.

QUARTERLY MONITORING:

Current Phase of Project	Monitoring/Remediation with ORC
Frequency of Groundwater Sampling:	Annual (1 st Quarter): MW-2, MW-11, MW-13
	Semi-Annual (1 st /3 rd Quarter) MW-9, MW-15
	Quarterly: MW-1, MW-3 through MW-8, MW-10
	MW-14
Frequency of Groundwater Monitoring:	Quarterly
Is Free Product (FP) Present On-Site:	No
FP Recovered this Quarter:	None
Cumulative FP Recovered to Date:	3.45 gallons, Well MW-1
Bulk Soil Removed This Quarter:	None
Bulk Soil Removed to Date:	1,565 cubic yards of TPH impacted soil
Current Remediation Techniques:	Natural Attenuation
Approximate Depth to Groundwater:	6.88 feet
Groundwater Gradient:	0.015 feet per foot toward East

DISCUSSION:

- Methyl tertiary butyl ether was reported in MW-4, MW-6 and MW-7 at concentrations of 3.7, 52, and 2.7 micrograms per liter (µg/L), respectively.
- Total petroleum hydrocarbons as gasoline was reported in MW-1, MW-5 and MW-6 at concentrations of 16,000; 17,000; 2,200 respectively.
- Benzene was reported in MW-1, MW-4 MW-5 and MW-6 at concentrations of 3,000; 0.57; 3200; and 440 µg/L, respectively.

ATTACHMENTS:

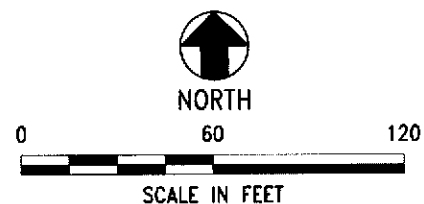
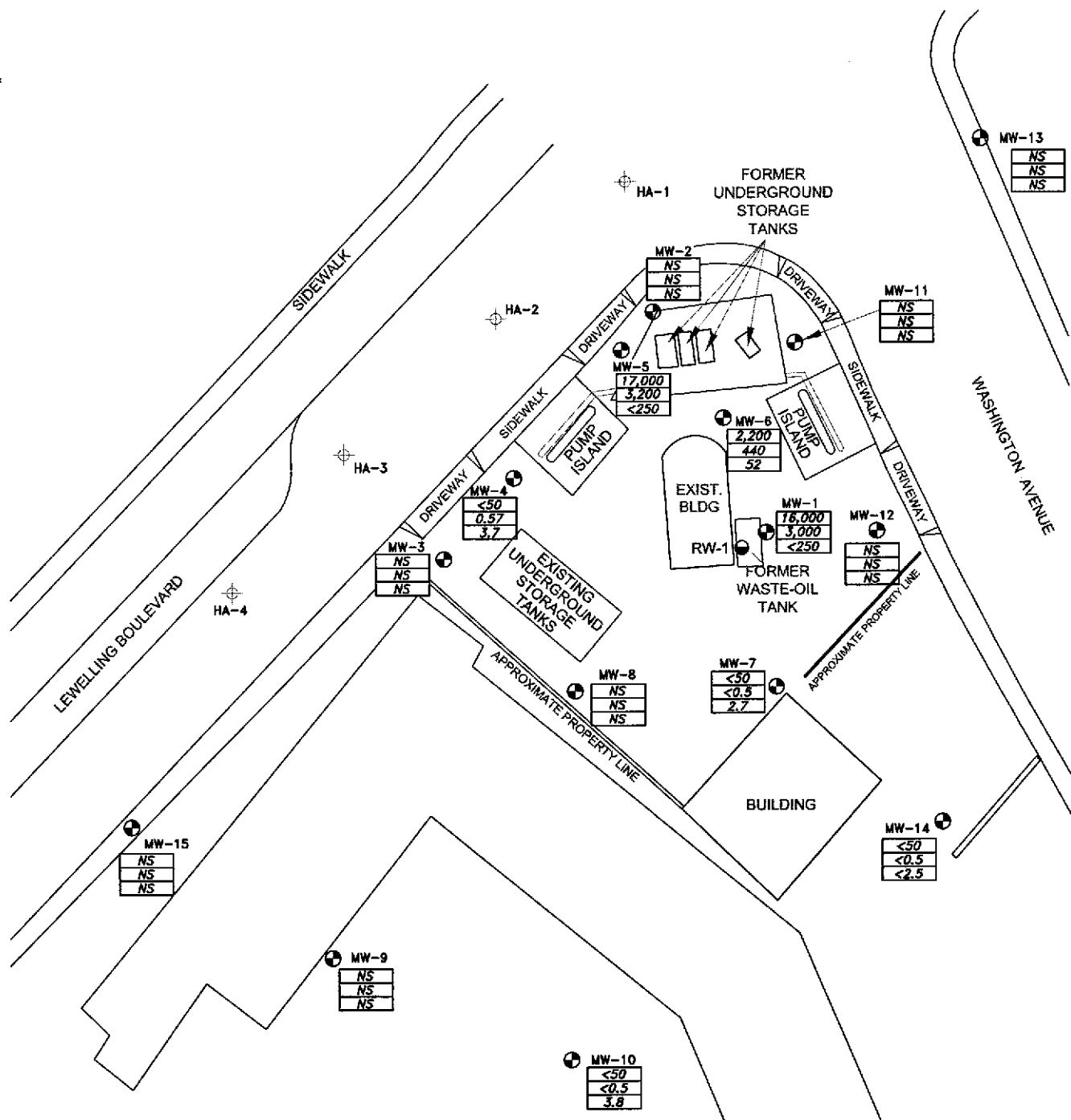
- Disclaimer Statement - Groundwater Monitoring Report
- Table 1 Summary of Groundwater Elevation and Analytical Data
- Table 2 Groundwater Flow Direction and Gradient
- Figure 1 Groundwater Analytical Summary Map
- Figure 2 Groundwater Elevation Contour Map
- Attachment A Groundwater Sampling Procedures
- Attachment B Historical Data Tables (Source : IT Corporation)
- Attachment C Certified Analytical Reports with Chain-of-Custody
- Attachment D Field Data Sheets
- Attachment E EDCC Report and EDF, Geowell Submittal Confirmation Number Page

**URS QUARTERLY MONITORING REPORT
DISCLAIMER
GROUP ENVIRONMENTAL MANAGEMENT COMPANY SITES**

This report is based on data, site conditions, and other information that are generally applicable as of the date of the report, and the conclusions and recommendations herein are therefore applicable only to that time frame.

Background information, including but not limited to previous field measurements, analytical results, site plans, and other data has been furnished to URS by Group Environmental Management Company, its previous consultants, and/or third parties that URS has used in preparing this report. URS has relied on this information as furnished. URS is not responsible for nor has it confirmed the accuracy of this information.

The analytical data provided by the laboratory approved by Group Environmental Management Company have been reviewed and verified by that laboratory. URS has not performed an independent review of the data and is neither responsible for nor has confirmed the accuracy of these data. Field measurements have been supplied by a groundwater sampling subcontractor. URS has not performed an independent review of the field sampling data and is neither responsible for nor has confirmed the accuracy of these data.



URS

Project No. 38465863

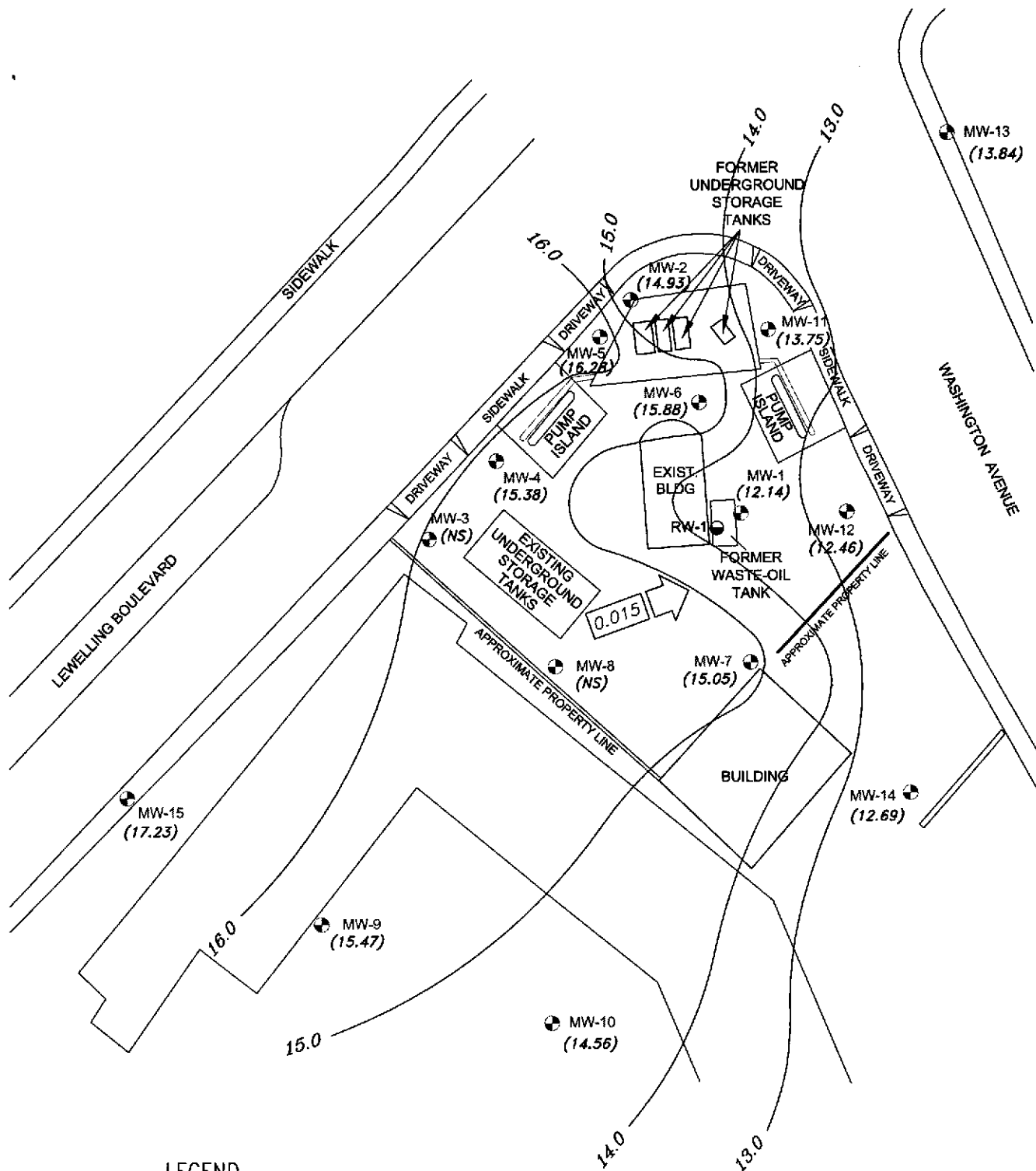
Arco Service Station 0601
712 Lewelling Boulevard
San Leandro, California

GROUNDWATER ANALYTICAL SUMMARY
Second Quarter 2002 (April 18, 2002)

FIGURE

1

X:\env\waste\BP_GEMA\Sheet\Scott_Robinson\Paul_Supple\0601\Reports\Monitoring\Qtr_2_2002\Drawings\2_GWEC_4-18-02.dwg



LEGEND

- MW-1 GROUNDWATER MONITORING WELL
- RW-1 SOIL VAPOR EXTRACTION WELL LOCATION
- 13.0 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MSL)
- (7.84) GROUNDWATER ELEVATION (FEET ABOVE MSL)
- 0.015 ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT



NORTH

0 60 120



SCALE IN FEET

URS

Project No. 38465882

Arco Service Station 0601
712 Lewelling Boulevard
San Leandro, California

GROUNDWATER ELEVATION CONTOUR MAP
Second Quarter 2002 (April 18, 2002)

FIGURE

2

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA

ARCO Service Station No. 601
712 Lewelling Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
					Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)				
MW-1	06/20/00	19.19	8.20	10.99	23,000	2,400	50	1,800	680	<200	NA
	09/29/00		8.55	10.64	23,600	2,880	<50	2,130	871	<250	430 ^a /1,100 ^b
	12/17/00		8.28	10.91	21,600	1,980	<50	1,610	664	<250	270 ^a /900 ^b
	03/28/01		8.13	11.06	19,800	2,310	<100	2,010	517	<500	11(c)
	06/20/01		8.60	10.59	17,000	2,200	23	1,800	320	100	NA
	09/22/01		9.03	10.16	20,000	2,900	<200	2,500	270	<1000	360 ^a , 980 ^b
	12/27/01		7.93	11.26	15,000	2,000	<50	1,700	140	290	370 ^a , 1,200 ^b
	03/15/02		7.89	11.30	12,000	1,800	<50	1,400	79	<250	220 ^a , 880 ^b
	04/18/02		7.05	12.14	16,000	3,000	180	2,600	320	<250	250^a, 880^b
MW-2	06/20/00	21.12	7.12	14.00	NS	NS	NS	NS	NS	NS	NS
	09/29/00		7.60	13.52	NS	NS	NS	NS	NS	NS	NS
	12/17/00		7.42	13.70	NS	NS	NS	NS	NS	NS	NS
	03/28/01		6.84	14.28	838	18.1	<5.0	7.63	5.98	39.5	NA
	06/20/01		7.66	13.46	NS	NS	NS	NS	NS	NS	NS
	09/22/01		8.08	13.04	NS	NS	NS	NS	NS	NS	NA
	12/27/01		6.48	14.64	NS	NS	NS	NS	NS	NS	NS
	03/15/02		6.84	14.28	100	<0.5	<0.5	2.5	<0.5	75	NA
	04/18/02		6.19	14.93	NS	NS	NS	NS	NS	NS	NS

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San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
MW-3	06/20/00	22.99	6.22	16.77	45,000	670	990	2,400	12000	<500	NA
	09/29/00		7.20	15.79	51,000	860	1,120	2,720	12900	<250	NA
	12/17/00		NM	NM	NS	NS	NS	NS	NS	NS	NA
	03/28/01		6.10	16.89	43,500	804	<200	250	11,000	<1,000	NA
	06/20/01		6.14	16.85	62,000	1,000	850	2,800	13,000	<2,500	NA
	09/22/01		7.24	15.75	53,000	1,200	1,200	3,100	13,000	<1,000	NA
	12/27/01		7.00	15.99	44,000	860	840	2,300	10,000	<250	NA
	03/15/02		7.02	15.97	43,000	1,000	810	2,300	11,000	<250	NA
	04/18/02		NM	NM	NS	NS	NS	NS	NS	NS	NS
MW-4	06/20/00	22.38	6.46	15.92	2,700	210	20	94	520	46	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.49	14.89	DRY	DRY	DRY	DRY	DRY	DRY	NA
	06/20/01		7.21	15.17	13,000	690	170	330	1,400	110	NA
	09/22/01		7.43	14.95	6,700	650	110	410	1,800	100	NA
	12/27/01		7.32	15.06	1,200	47	15	46	250	15	NA
	03/15/02		7.43	14.95	490	34	7.4	26	110	12	NA
	04/18/02		7	15.38	<50	0.57	0.83	<0.5	1.1	3.7	NA

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Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
MW-5	06/20/00	22.45	6.78	15.67	10,000	3,000	650	260	700	<200	NA
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		6.48	15.97	23,400	4,160	3,450	728	3,090	<250	NA
	06/20/01		7.26	15.19	120,000	1,200	49	190	540	<100	NA
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
	12/27/01		6.56	15.89	16,000	1,500	2,700	730	3,200	<250	NA
	03/15/02		6.9	15.55	20,000	2,600	3,300	1,000	4,000	<250	NA
	04/18/02		6.17	16.28	17,000	3,200	2,900	790	3,000	<250	NA
MW-6	06/20/00	22.77	DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.57	15.2	DRY	DRY	DRY	DRY	DRY	DRY	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
	12/27/01		7.21	15.56	<50	3	1	1.1	2	<2.5	NA
	03/15/02		7.51	15.26	2,100	380	8.6	110	17	<25	NA
	04/18/02		6.89	15.88	2,200	440	12	96	14	52	NA

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Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
MW-7	06/20/00	22.89	DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	09/29/00		DRY	DRY	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.93	13.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/28/01		8.35	14.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	09/22/01		DRY	DRY	NS	NS	NS	NS	NS	NS	NA
	12/27/01		8.42	14.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/15/02		8.54	14.35	<50	1.3	2.6	1.1	5.4	<2.5	NA
	04/18/02		7.84	15.05	<50	<0.5	<0.5	<0.5	<0.5	2.7	NA
MW-8	06/20/00	20.89	7.23	13.66	150	<0.5	0.9	<0.5	<1.0	310	NA
	09/29/00		7.91	12.98	149	<0.5	<0.5	<0.5	<0.5	438	NA
	12/17/00		7.11	13.78	662	<5.0	<5.0	<5.0	<5.0	273	NA
	03/28/01		6.88	14.01	840	<5.0	<5.0	<5.0	<5.0	320	NA
	06/20/01		7.25	13.64	230	<0.5	<0.5	<0.5	0.65	330	NA
	09/22/01		8.14	12.75	<50	<0.5	<0.5	<0.5	<0.5	6.5	NA
	12/27/01		6.73	14.16	780	<0.5	<0.5	0.6	0.89	160	NA
	03/15/02		6.94	13.95	1,100	<10	<10	<10	<10	830	NA
	04/18/02		NM	NM	NS	NS	NS	NS	NS	NS	NS

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ARCO Service Station No. 601
712 Lewelling Boulevard
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Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
MW-9	06/20/00	22.26	8.01	14.25	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.44	13.82	<50	<0.5	<0.5	<0.5	<0.5	3.44	NA
	12/17/00		7.84	14.42	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.58	14.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		7.75	14.51	NS	NS	NS	NS	NS	NS	NS
	09/22/2001		8.69	13.57	<50	<0.5	<0.5	<0.5	<0.5	7.8	NA
	12/27/2001		7.15	15.11	NS	NS	NS	NS	NS	NS	NS
	03/15/02		7.23	15.03	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	04/18/02		6.79	15.47	NS	NS	NS	NS	NS	NS	NS
MW-10	06/20/00	21.33	7.99	13.34	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	NA
	09/29/00		8.40	12.93	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	12/17/00		7.91	13.42	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	03/28/01		7.47	13.86	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	06/20/01		8.11	13.22	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	09/22/01		8.77	12.56	<50	< 0.5	< 0.5	<0.5	<0.5	<2.5	NA
	12/27/01		6.94	14.39	<50	< 0.5	< 0.5	<0.5	<0.5	<2.5	NA
	03/15/02		7.48	13.85	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	04/18/02		6.77	14.56	<50	< 0.5	< 0.5	< 0.5	<0.5	3.8	NA

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ARCO Service Station No. 601
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San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH			Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
					as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)				
MW-11	06/20/00	20.97	8.18	12.79	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.60	12.37	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.48	12.49	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.88	13.09	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		8.48	12.49	NS	NS	NS	NS	NS	NS	NS
	09/22/01		9.11	11.86	NS	NS	NS	NS	NS	NS	NS
	12/27/01		7.50	13.47	NS	NS	NS	NS	NS	NS	NS
	03/15/02		7.87	13.1	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		7.22	13.75	NS	NS	NS	NS	NS	NS	NS
MW-12	06/20/00	20.11	8.55	11.56	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.98	11.13	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.76	11.35	NS	NS	NS	NS	NS	NS	NS
	03/28/01		8.31	11.8	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		9.10	11.01	NS	NS	NS	NS	NS	NS	NS
	09/22/01		9.48	10.63	NS	NS	NS	NS	NS	NS	NS
	12/27/01		7.78	12.33	NS	NS	NS	NS	NS	NS	NS
	03/15/02		8.22	11.89	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		7.65	12.46	NS	NS	NS	NS	NS	NS	NS

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Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
MW-13	06/20/00	20.75	7.56	13.19	NS	NS	NS	NS	NS	NS	NS
	09/29/00		8.27	12.48	NS	NS	NS	NS	NS	NS	NS
	12/17/00		8.09	12.66	NS	NS	NS	NS	NS	NS	NS
	03/28/01		7.69	13.06	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		8.46	12.29	NS	NS	NS	NS	NS	NS	NS
	09/22/01		8.57	12.18	NS	NS	NS	NS	NS	NS	NS
	12/27/01		7.14	13.61	NS	NS	NS	NS	NS	NS	NS
	03/15/02		7.62	13.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		6.91	13.84	NS	NS	NS	NS	NS	NS	NS
MW-14	06/20/00	20.90	9.16	11.74	<50	<0.5	<0.5	<0.5	<1.0	<10	NA
	09/29/00		9.48	11.42	<50	<0.5	<0.5	<0.5	<0.5	<2.50	NA
	12/17/00		9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/28/01		8.91	11.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	06/20/01		9.7	11.20	<50	<0.5	<0.5	<0.5	<0.5	3.1	NA
	09/22/01		10.04	10.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	12/27/01		8.33	12.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	03/15/02		8.75	12.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	04/18/02		8.21	12.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA

TABLE 1

SUMMARY OF GROUNDWATER ELEVATION AND ANALYTICAL DATA

ARCO Service Station No. 601
712 Lewelling Boulevard
San Leandro, California

Well Number	Date Sampled	Top of Riser Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Semi Volatiles (µg/L)
MW-15	06/20/00	22.08	5.98	16.10	NS	NS	NS	NS	NS	NS	NS
	09/29/00		6.50	15.58	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.50	NA
	12/17/00		5.89	16.19	NS	NS	NS	NS	NS	NS	NS
	03/28/01		5.78	16.30	<50	< 0.5	< 0.5	< 0.5	<0.5	11.1	NA
	06/20/01		5.72	16.36	NS	NS	NS	NS	NS	NS	NS
	09/22/01		6.79	15.29	<50	<0.5	<0.5	<0.5	<0.5	13	NA
	12/27/01		5.49	16.59	NS	NS	NS	NS	NS	NS	NS
	03/15/02		5.68	16.40	<50	< 0.5	< 0.5	< 0.5	<0.5	<2.5	NA
	04/18/02		4.85	17.23	NS	NS	NS	NS	NS	NS	NS

^a 2-methylnaphthalene

^b Naphthalene

^c Phenol

TPH = Total Petroleum Hydrocarbons

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021B unless otherwise noted

µg/L = Micrograms per liter

NA = Not analyzed

NS = Not sampled

TABLE 2

GROUNDWATER FLOW DIRECTION AND GRADIENT

ARCO Service Station 601

712 Lewelling Boulevard
San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
06/20/00	East-Southeast	0.023
09/29/00	East-Southeast	0.023
12/17/00	East-Southeast	0.010
03/28/01	East-Southeast	0.014
06/20/01	East-Southeast	0.022
09/22/01	East-Southeast	0.025
12/27/01	East-Southeast	0.025
03/15/02	East	0.015
04/18/02	East	0.015

Note: Please refer to Appendix B for Historical Groundwater Elevation and Analytical Data Tables developed by IT Corporation

ATTACHMENT A

GROUNDWATER SAMPLING PROCEDURES

ATTACHMENT A

GROUNDWATER SAMPLING 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 TeflonTM bailer or an oil-water interface probe. Wells not containing free product that do not have submerged screens are then sampled without purging. Wells that have submerged screens are purged of approximately three casing volumes of water (or to dryness) 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 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.

ATTACHMENT B

HISTORICAL DATA TABLES

(Source: IT Corporation)

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/Not Purged P/NP
MW-1	03-17-95	22.26	6.57	ND	15.69	03-17-95	120,000	5,300	370	1,500	13,000	--	--	48,000	6,200[1]		
MW-1	06-01-95	22.26	7.87	ND	14.39	06-01-95	250,000	7,100	950	3,500	21,000	--	--	38,000	190,000[1]		
MW-1	08-31-95	22.26	8.12	0.01	** 14.15	08-31-95	Not sampled: well contained floating product										
MW-1	11-27-95	22.26	8.42	Sheen	13.84	11-27-95	310,000	4,600	770	5,700	21,000	--	--	--	--		
MW-1	02-22-96	22.26	6.01	0.01	** 16.26	03-14-96	100,000	6,200	320	2,500	12,000	<1,000[1]	--	--	--		
MW-1	05-20-96	22.26	7.03	ND	15.23	05-21-96	340,000	6,600	240	4,500	22,000	<1,000	--	150	<2,500[1]		
MW-1	08-26-96	22.26	8.16	ND	14.10	08-26-96	210,000	7,900	320	3,400	15,000	<1,000	--	--	--		
MW-1	11-20-96	22.26	7.84	ND	14.42	11-20-96	62,000	5,900	77	2,000	7,700	<300	--	--	--		
MW-1	03-24-97	19.19	8.05	ND	11.14	03-24-97	170,000	6,500	<200	2,400	9,900	<1,000	--	--	--		
MW-1	05-23-97	19.19	8.42	ND	10.77	05-23-97	83,000	6,200	84	2,500	9,000	<300	--	--	--		
MW-1	08-19-97	19.19	8.65	ND	10.54	08-19-97	83,000	4,500	<100	2,200	8,100	<600	--	--	--		
MW-1	11-19-97	19.19	8.54	ND	10.65	11-19-97	250,000	4,400	<500	3,800	9,900	<3,000	--	--	--		
MW-1	02-19-98	19.19	5.57	ND	13.62	02-19-98	74,000	2,500	120	2,200	4,100	<300	--	--	--		
MW-1	04-23-98	19.19	6.92	ND	12.27	04-24-98	210,000	2,700	<500	4,200	8,300	<3,000	--	--	--	1.5	P
MW-1	07-27-98	19.19	8.14	ND	11.05	07-27-98	73,000	2,100	88	2,600	4,600	<300	--	--	--	1.0	P
MW-1	10-14-98	19.19	8.58	ND	10.61	10-14-98	47,000	2,900	<50	2,300	3,900	<300	--	--	--	1.5	P
MW-1	01-21-99	19.19	7.84	ND	11.35	01-22-99	45,000	1,400	64	2,100	2,400	<300	--	--	--	1.0	P
MW-1	05-06-99	19.19	8.00	ND	11.19	05-06-99	41,000	1,900	<20	2,800	3,400	<120	--	--	--	0.85	P
MW-1	08-23-99	19.19	8.56	ND	10.63	08-24-99	26,000	1,700	52	1,600	1,500	<75	--	--	--	0.72	P
MW-1	10-28-99	19.19	8.92	ND	10.27	10-28-99	38,000	2,500	35	2,400	2,500	<200	--	--	--	0.70	P
MW-1	02-04-00	19.19	8.48	Sheen	10.71	02-04-00	19,000	960	13	1,200	860	<60	--	--	--	2.11	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-2	03-17-95	21.33	6.12	ND	15.21	03-17-95	10,000	460	77	260	550	--	--	--	--		
MW-2	06-01-95	21.33	6.56	ND	14.77	06-01-95	13,000	400	78	210	410	--	--	--	--		
MW-2	08-31-95	21.33	7.18	ND	14.15	08-31-95	5,000	280	18	120	140	<50	--	--	--		
MW-2	11-27-95	21.33	7.39	ND	13.94	11-27-95	3,200	230	12	77	90	--	--	--	--		
MW-2	02-22-96	21.33	5.78	ND	15.55	03-14-96	11,000	290	67	190	330	<50	--	--	--		
MW-2	05-20-96	21.33	6.27	ND	15.06	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-2	08-26-96	21.33	7.30	ND	14.03	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-2	11-20-96	21.33	7.28	ND	14.05	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-2	03-24-97	21.12	7.11	ND	14.01	03-24-97	4,800	570	6	71	32	67	--	--	--		
MW-2	05-23-97	21.12	7.44	ND	13.68	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-2	08-19-97	21.12	7.64	ND	13.48	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-2	11-19-97	21.12	7.70	ND	13.42	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-2	02-19-98	21.12	5.22	ND	15.90	02-19-98	2,000	160	50	66	230	25	--	--	--		
MW-2	04-23-98	21.12	6.24	ND	14.88	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-2	07-27-98	21.12	7.02	ND	14.10	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-2	10-14-98	21.12	7.54	ND	13.58	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-2	01-21-99	21.12	7.15	ND	13.97	01-22-99	1,700	84	4	31	10	13	--	--	--	0.5	P
MW-2	05-06-99	21.12	6.95	ND	14.17	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-2	08-23-99	21.12	7.49	ND	13.63	08-24-99	Not sampled: well sampled annually, during the first quarter										0.68
MW-2	10-28-99	21.12	7.92	ND	13.20	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-2	02-04-00	21.12	6.61	ND	14.51	02-05-00	Not sampled: well inaccessible										

Table 1
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Petroleum Hydrocarbons and Their Constituents
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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-3	03-17-95	20.11	5.46	ND	14.65	03-17-95	370,000	4,800	12,000	5,800	34,000	--	--	--	--		
MW-3	06-01-95	20.11	6.34	ND	13.77	06-01-95	270,000	6,000	11,000	5,200	28,000	--	--	--	--		
MW-3	08-31-95	20.11	6.60	0.02	** 13.52	08-31-95	Not sampled: well contained floating product										
MW-3	11-27-95	20.11	6.76	0.01	** 13.36	11-27-95	150,000	5,100	8,800	3,900	21,000	--	--	--	--		
MW-3	02-22-96	20.11	5.14	0.01	** 14.98	03-14-96	150,000	4,400	7,600	4,100	22,000	<3,000	--	--	--		
MW-3	05-20-96	20.11	5.17	ND	14.94	05-21-96	410,000	4,700	8,000	6,300	36,000	<3,000	--	--	--		
MW-3	08-26-96	20.11	7.04	ND	13.07	08-26-96	260,000	4,000	6,100	4,200	24,000	<2,000	--	--	--		
MW-3	11-20-96	20.11	6.26	ND	13.85	11-20-96	190,000	3,200	5,800	3,300	20,000	<1,000	--	--	--		
MW-3	03-24-97	22.99	6.94	ND	16.05	03-24-97	430,000	2,700	7,600	7,000	39,000	<5,000	--	--	--		
MW-3	05-23-97	22.99	6.98	ND	16.01	05-23-97	130,000	2,100	4,300	3,500	19,000	<700	--	--	--		
MW-3	08-19-97	22.99	7.25	ND	15.74	08-19-97	100,000	2,000	3,200	<100	19,000	<600	--	--	--		
MW-3	11-19-97	22.99	7.25	ND	15.74	11-19-97	93,000	1,700	2,400	2,800	16,000	<600	--	--	--		
MW-3	02-19-98	22.99	5.24	ND	17.75	02-19-98	80,000	620	1,200	2,500	13,000	<600	--	--	--		
MW-3	04-23-98	22.99	6.60	ND	16.39	04-24-98	130,000	1,500	2,400	3,500	18,000	<600	--	--	--	3.5	P
MW-3	07-27-98	22.99	7.00	ND	15.99	07-27-98	140,000	920	1,500	2,400	13,000	<600	--	--	--	1.0	P
MW-3	10-14-98	22.99	7.04	ND	15.95	10-14-98	300,000	1,200	2,400	5,700	32,000	970	--	--	--	1.0	P
MW-3	01-21-99	22.99	6.50	ND	16.49	01-22-99	120,000	860	1,500	2,600	14,000	<600	--	--	--	0.5	P
MW-3	05-06-99	22.99	6.90	ND	16.09	05-06-99	49,000	670	1,400	2,500	11,000	170	--	--	--	1.03	NP
MW-3	08-23-99	22.99	6.53	ND	16.46	08-24-99	51,000	440	930	2,200	9,200	<150	--	--	--	0.67	NP
MW-3	10-28-99	22.99	7.50	ND	15.49	10-28-99	1,400,000	830	4,100	15,000	78,000	<5,000	--	--	--	0.77	P
MW-3	02-04-00	22.99	6.21	ND	16.78	02-04-00	<50	<0.5	<0.5	<0.5	<1	650	--	--	--	1.61	P

Table 1
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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-4	03-17-95	20.75	6.65	ND	14.10	03-17-95	16,000	1,800	970	310	2,500	--	--	--	--		
MW-4	06-01-95	20.75	7.25	ND	13.50	06-01-95	16,000	2,800	870	380	2,700	--	--	--	--		
MW-4	08-31-95	20.75	7.75	ND	13.00	08-31-95	9,000	2,000	270	270	1,400	<100	--	--	--		
MW-4	11-27-95	20.75	7.87	ND	12.88	11-27-95	3,800	890	130	130	550	--	--	--	--		
MW-4	02-22-96	20.75	7.29	ND	13.46	03-14-96	940	150	82	19	130	<20	--	--	--		
MW-4	05-20-96	20.75	7.30	ND	13.45	05-21-96	6,700	1,100	330	120	1,100	<100	--	--	--		
MW-4	08-26-96	20.75	7.57	ND	13.18	08-26-96	14,000	2,400	510	350	2,100	<100	--	--	--		
MW-4	11-20-96	20.75	7.89	ND	12.86	11-20-96	420	55	17	11	62	<3	--	--	--		
MW-4	03-24-97	22.38	6.90	ND	15.48	03-24-97	6,800	620	150	81	1,300	<50	--	--	--		
MW-4	05-23-97	22.38	7.80	ND	14.58	05-23-97	9,000	1,300	240	200	1,600	<60	--	--	--		
MW-4	08-19-97	22.38	DRY	ND	N/A	08-19-97	Not sampled: well is dry										
MW-4	11-19-97	22.38	DRY	ND	N/A	11-19-97	3,700[1]	600	93	120	710	<60	--	--	--		
MW-4	02-19-98	22.38	6.78	ND	15.60	02-19-98	1,800	93	51	29	420	110	--	--	--		
MW-4	04-23-98	22.38	6.47	ND	15.91	04-23-98	6,500	700	110	180	1,300	93	--	--	--	0.5	P
MW-4	07-27-98	22.38	7.22	ND	15.16	07-27-98	10,000	1,400	140	290	1,900	<120	--	--	--	1.5	P
MW-4	10-14-98	22.38	7.60	ND	14.78	10-14-98	6,500	900	63	200	1,200	63	--	--	--	1.0	P
MW-4	01-21-99	22.38	7.43	ND	14.95	01-22-99	1,700	140	22	56	320	13	--	--	--	0.5	P
MW-4	05-06-99	22.38	6.55	ND	15.83	05-06-99	3,300	250	36	73	890	41	--	--	--	1.28	P
MW-4	08-23-99	22.38	7.16	ND	15.22	08-24-99	7,400	500	73	230	1,700	57	--	--	--	0.89	P
MW-4	10-28-99	22.38	8.28	ND	14.10	10-28-99	370	41	5.7	14	52	16	--	--	--	0.92	NP
MW-4	02-04-00	22.38	8.23	ND	14.15	02-04-00	310	33	7.5	11	65	8	--	--	--	2.43	P

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MW-5	03-17-95	20.90	5.51	ND	15.39	03-17-95	48,000	6,400	2,000	740	5,100	--	--	--	--		
MW-5	06-01-95	20.90	6.55	ND	14.35	06-01-95	76,000	11,000	5,400	1,400	7,700	--	--	--	--		
MW-5	08-31-95	20.90	6.80	ND	14.10	08-31-95	53,000	12,000	1,600	1,000	6,000	<500	--	--	--		
MW-5	11-27-95	20.90	7.13	ND	13.77	11-27-95	43,000	7,900	3,300	950	4,900	--	--	--	--		
MW-5	02-22-96	20.90	5.12	ND	15.78	03-14-96	52,000	9,100	3,300	940	5,000	<500	--	--	--		
MW-5	05-20-96	20.90	5.87	ND	15.03	05-21-96	55,000	9,300	3,800	1,100	5,400	<500	--	--	--		
MW-5	08-26-96	20.90	7.15	ND	13.75	08-26-96	47,000	5,300	2,100	780	3,200	<300	--	--	--		
MW-5	11-20-96	20.90	6.88	ND	14.02	11-20-96	53,000	8,700	5,700	920	4,400	<500	--	--	--		
MW-5	03-24-97	22.45	7.13	ND	15.32	03-24-97	39,000	8,200	3,200	720	3,100	<500	--	--	--		
MW-5	05-23-97	22.45	7.42	ND	15.03	05-23-97	29,000	6,600	1,700	400	1,500	<600	--	--	--		
MW-5	08-19-97	22.45	7.58	ND	14.87	08-19-97	16,000	4,600	790	<50	1,300	<300	--	--	--		
MW-5	11-19-97	22.45	7.58	ND	14.87	11-19-97	22,000	5,800	1,300	380	1,300	<300	--	--	--		
MW-5	02-19-98	22.45	4.65	ND	17.80	02-19-98	40,000	5,100	3,800	620	2,900	<300	--	--	--		
MW-5	04-23-98	22.45	6.25	ND	16.20	04-23-98	45,000	8,000	4,000	970	4,200	<600	--	--	--	1.5	P
MW-5	07-27-98	22.45	6.71	ND	15.74	07-27-98	30,000	8,000	2,000	590	1,900	<600	--	--	--	1.5	P
MW-5	10-14-98	22.45	7.19	ND	15.26	10-14-98	33,000	7,400	1,900	550	1,700	<300	--	--	--	1.5	P
MW-5	01-21-99	22.45	7.03	ND	15.42	01-22-99	34,000	6,200	2,600	630	2,300	<600	--	--	--	2.5	P
MW-5	05-06-99	22.45	7.02	ND	15.43	05-06-99	7,900	2,400	200	240	580	12	--	--	--	1.07	NP
MW-5	08-23-99	22.45	7.04	ND	15.41	08-24-99	25,000	5,800	2,300	570	2,000	67	--	--	--	1.04	P
MW-5	10-28-99	22.45	7.90	ND	14.55	10-28-99	20,000	5,900	1,100	450	1,100	<250	--	--	--	0.87	P
MW-5	02-04-00	22.45	6.71	ND	15.74	02-04-00	32,000	2,500	3,800	770	4,200	<75	--	--	--	2.33	P

Table 1
Groundwater Elevation and Analytical Data
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ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-6	03-17-95	22.08	6.66	ND	15.42	03-17-95	45,000	9,300	<100	1,900	3,600	--	--	--	--		
MW-6	06-01-95	22.08	7.60	ND	14.48	06-01-95	23,000	5,600	<50	1,300	1,900	--	--	--	--		
MW-6	08-31-95	22.08	7.92	ND	14.16	08-31-95	26,000	8,000	<100	1,900	900	<500	--	--	--		
MW-6	11-27-95	22.08	8.21	ND	13.87	11-27-95	6,700	1,800	<20	480	230	--	--	--	--		
MW-6	02-22-96	22.08	6.21	ND	15.87	03-14-96	17,000	3,100	69	810	1,500	<300	--	--	--		
MW-6	05-20-96	22.08	7.07	ND	15.01	05-21-96	16,000	3,700	<50	1,100	1,100	<300	--	--	--		
MW-6	08-26-96	22.08	7.93	ND	14.15	08-26-96	23,000	5,800	<50	2,000	560	<300	--	--	--		
MW-6	11-20-96	22.08	8.02	ND	14.06	11-20-96	11,000	3,300	<50[1]	480	370	<300	--	--	--		
MW-6	03-24-97	22.77	7.95	ND	14.82	03-24-97	9,700	1,900	<20	800	270	<100	--	--	--		
MW-6	05-23-97	22.77	8.17	ND	14.60	05-23-97	16,000	4,300	<50	1,400	180	<300	--	--	--		
MW-6	08-19-97	22.77	-	ND	NA	08-19-97	Not sampled: well is dry										
MW-6	11-19-97	22.77	-	ND	NA	11-19-97	Not sampled: well is dry										
MW-6	02-19-98	22.77	5.78	ND	16.99	02-19-98	2,600	540	8	90	88	<30	--	--	--		
MW-6	04-23-98	22.77	6.83	ND	15.94	04-24-98	7,600	1,300	13	520	190	<60	--	--	--	0.5	P
MW-6	07-27-98	22.77	7.80	ND	14.97	07-27-98	15,000	3,600	<25	1,100	230	<150	--	--	--	1.0	P
MW-6	10-14-98	22.77	8.31	ND	14.46	10-14-98	8,700	2,400	<20	220	36	<120	--	--	--	2.0	P
MW-6	01-21-99	22.77	7.90	ND	14.87	01-22-99	4,800	1,100	<25	340	79	<150	--	--	--	2.0	P
MW-6	05-06-99	22.77	7.70	ND	15.07	05-06-99	1,300	240	2.3	85	19	5	--	--	--	1.18	P
MW-6	08-23-99	22.77	8.24	ND	14.53	08-24-99	4,200	970	12	110	29	<15	--	--	--	0.90	P
MW-6	10-28-99	22.77	-	ND	NA	10-28-99	Not sampled: well is dry										
MW-6	02-04-00	22.77	7.31	ND	15.46	02-04-00	110	<0.5	0.6	1.5	1.9	11	--	--	--	1.10	P

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MW-7	03-17-95	22.89	7.68	ND	15.21	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-7	06-01-95	22.89	8.40	ND	14.49	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-7	08-31-95	22.89	9.09	ND	13.80	08-31-95	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--		
MW-7	11-27-95	22.89	9.15	ND	13.74	11-27-95	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--		
MW-7	02-22-96	22.89	7.44	ND	15.45	03-14-96	110	1.4	<0.5	3.8	3.0	<3	--	--	--		
MW-7	05-20-96	22.89	8.47	ND	14.42	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-7	08-26-96	22.89	8.81	ND	14.08	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-7	11-20-96	22.89	9.17	ND	13.72	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-7	03-24-97	22.89	8.31	ND	14.58	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-7	05-23-97	22.89	9.26	ND	13.63	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-7	08-19-97	22.89	-	ND	NA	08-19-97	Not sampled: well is dry										
MW-7	11-19-97	22.89	-	ND	NA	11-19-97	Not sampled: well is dry										
MW-7	02-19-98	22.89	6.13	ND	16.76	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-7	04-23-98	22.89	7.44	ND	15.45	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-7	07-27-98	22.89	8.75	ND	14.14	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-7	10-14-98	22.89	9.22	ND	13.67	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-7	01-21-99	22.89	9.07	ND	13.82	01-22-99	52	<0.5	<0.5	<0.5	0.27	<3	--	--	--	3.0	P
MW-7	05-06-99	22.89	8.32	ND	14.57	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.83	P
MW-7	08-23-99	22.89	9.25	ND	13.64	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.42	P
MW-7	10-28-99	22.89	Not surveyed			10-28-99	Not sampled: well is dry										
MW-7	02-04-00	22.89	8.79	ND	14.10	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	4.46	P

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MW-8	03-17-95	20.97	6.14	ND	14.83	03-17-95	5,400	<5	<5	35	<5	--	--	--	--		
MW-8	06-01-95	20.97	6.50	ND	14.47	06-01-95	2,600	<2.5	<2.5	15	<2.5	--	--	--	--		
MW-8	08-31-95	20.97	7.35	ND	13.62	08-31-95	1,400	<3	<3	5	<3	520	--	900	--		
MW-8	11-27-95	20.97	7.60	ND	13.37	11-27-95	620	<0.5	<0.5	<0.5	0.5	--	560	900	510[1]		
MW-8	02-22-96	20.97	5.35	ND	15.62	03-14-96	5,800	<5	<5	28	<5	110	--	1,900	6,800[1]		
MW-8	05-20-96	20.97	5.92	ND	15.05	05-21-96	6,100	<5	<5	26	<5	240	--	--	--		
MW-8	08-26-96	20.97	7.08	ND	13.89	08-26-96	970	<1	<1	3	<1	710	--	--	--		
MW-8	11-20-96	20.97	7.01	ND	13.96	11-20-96	3,900	<2.5	<2.5	12	<2.5	930	--	--	--		
MW-8	03-24-97	20.89	7.33	ND	13.56	03-24-97	1,400	<10	<10	<10	12	1,300	--	--	--		
MW-8	05-23-97	20.89	7.55	ND	13.34	05-23-97	730	<5	<5	<5	<5	630	--	--	--		
MW-8	08-19-97	20.89	7.87	ND	13.02	08-19-97	<500	<5	<5	<5	<5	290	--	--	--		
MW-8	11-19-97	20.89	7.87	ND	13.02	11-19-97	<200	<2	<2	<2	<2	260	--	--	--		
MW-8	02-19-98	20.89	4.46	ND	16.43	02-19-98	2,000	<2	<2	9	<2	140	--	--	--		
MW-8	04-23-98	20.89	6.35	ND	14.54	04-24-98	4,500	<5	<5	<5	11	590	--	--	--	0.5	P
MW-8	07-27-98	20.89	7.43	ND	13.46	07-27-98	Not sampled										
MW-8	10-14-98	20.89	7.79	ND	13.10	10-14-98	Not sampled										
MW-8	01-21-99	20.89	6.54	ND	14.35	01-22-99	2,000	<2	<2	3	<2	320	--	--	--	2.5	P
MW-8	05-06-99	20.89	7.30	ND	13.59	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	160	--	--	--	12.76	NP
MW-8	08-23-99	20.89	7.45	ND	13.44	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	5	--	--	--	7.85	NP
MW-8	10-28-99	20.89	8.22	ND	12.67	10-28-99	160	<0.5	<0.5	<0.5	<1	45	--	--	--	0.84	P
MW-8	02-04-00	20.89	8.47	ND	12.42	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.92	P

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MW-9	03-17-95	20.89	6.94	ND	13.95	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	06-01-95	20.89	8.15	ND	12.74	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	08-31-95	20.89	8.10	ND	12.79	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-27-95	20.89	8.38	ND	12.51	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-9	02-22-96	20.89	7.36	ND	13.53	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	05-20-96	20.89	7.81	ND	13.08	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	08-26-96	20.89	8.00	ND	12.89	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-20-96	20.89	7.06	ND	13.83	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	03-24-97	22.26	7.74	ND	14.52	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	05-23-97	22.26	8.28	ND	13.98	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	08-19-97	22.26	8.32	ND	13.94	08-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	11-19-97	22.26	8.32	ND	13.94	11-19-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	02-19-98	22.26	7.11	ND	15.15	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-9	04-23-98	22.26	8.18	ND	14.08	04-23-98	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	07-27-98	22.26	7.97	ND	14.29	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	3.6	P
MW-9	10-14-98	22.26	8.29	ND	13.97	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	2.5	P
MW-9	01-21-99	22.26	7.63	ND	14.63	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-9	05-06-99	22.26	7.27	ND	14.99	05-06-99	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	08-23-99	22.26	8.24	ND	14.02	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.93	P
MW-9	10-28-99	22.26	8.63	ND	13.63	10-28-99	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-9	02-04-00	22.26	8.01	ND	14.25	02-05-00	<50	<0.5	1.6	<0.5	<1	<3	--	--	--	1.47	P

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MW-10	03-17-95	21.12	6.26	ND	14.86	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	06-01-95	21.12	7.63	ND	13.49	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	08-31-95	21.12	8.17	ND	12.95	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-27-95	21.12	8.38	ND	12.74	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-10	02-22-96	21.12	5.41	ND	15.71	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	05-20-96	21.12	6.78	ND	14.34	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	08-26-96	21.12	8.00	ND	13.12	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-20-96	21.12	7.81	ND	13.31	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	03-24-97	21.33	7.87	ND	13.46	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	05-23-97	21.33	8.33	ND	13.00	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-10	08-19-97	21.33	8.39	ND	12.94	08-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	11-19-97	21.33	8.39	ND	12.94	11-19-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	02-19-98	21.33	4.65	ND	16.68	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-10	04-23-98	21.33	6.28	ND	15.05	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-10	07-27-98	21.33	7.97	ND	13.36	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	3.3	P
MW-10	10-14-98	21.33	8.41	ND	12.92	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-10	01-21-99	21.33	6.65	ND	14.68	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-10	05-06-99	21.33	7.74	ND	13.59	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.76	P
MW-10	08-23-99	21.33	8.37	ND	12.96	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.21	P
MW-10	10-28-99	21.33	8.73	ND	12.60	10-28-99	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.12	P
MW-10	02-04-00	21.33	8.78	ND	12.55	02-05-00	<50	<0.5	1.0	<0.5	<1	<3	--	--	--	2.84	P

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MW-11	03-17-95	22.38	6.94	ND	15.44	03-17-95	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-11	06-01-95	22.38	7.90	ND	14.48	06-01-95	210	<0.5	<0.5	0.9	0.7	--	--	--	--		
MW-11	08-31-95	22.38	8.18	ND	14.20	08-31-95	680	<0.5	<0.5	4	1.8	<3	--	--	--		
MW-11	11-27-95	22.38	8.48	ND	13.90	11-27-95	340	<0.5	<0.5	2.2	1.6	--	--	--	--		
MW-11	02-22-96	22.38	6.63	ND	15.75	03-14-96	150	<0.5	<0.5	<0.8	0.8	<3	--	--	--		
MW-11	05-20-96	22.38	7.25	ND	15.13	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-11	08-26-96	22.38	8.22	ND	14.16	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-11	11-20-96	22.38	8.37	ND	14.01	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-11	03-24-97	20.97	8.15	ND	12.82	03-24-97	63	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-11	05-23-97	20.97	8.48	ND	12.49	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-11	08-19-97	20.97	8.67	ND	12.30	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-11	11-19-97	20.97	8.67	ND	12.30	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-11	02-19-98	20.97	6.25	ND	14.72	02-19-98	<50	<0.5	1.6	<0.5	1.8	7	--	--	--		
MW-11	04-23-98	20.97	7.23	ND	13.74	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-11	07-27-98	20.97	8.05	ND	12.92	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-11	10-14-98	20.97	8.58	ND	12.39	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-11	01-21-99	20.97	8.25	ND	12.72	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-11	05-06-99	20.97	7.95	ND	13.02	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-11	08-23-99	20.97	8.51	ND	12.46	08-24-99	Not sampled: well sampled annually, during the first quarter										0.86
MW-11	10-28-99	20.97	8.95	ND	12.02	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-11	02-04-00	20.97	7.88	ND	13.09	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	3.29	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-12	03-17-95	22.77	7.09	ND	15.68	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-12	06-01-95	22.77	8.40	ND	14.37	06-01-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-12	08-31-95	22.77	8.55	ND	14.22	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	11-27-95	22.77	8.95	ND	13.82	11-27-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-12	02-22-96	22.77	6.81	ND	15.96	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	05-20-96	22.77	7.56	ND	15.21	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-12	08-26-96	22.77	8.63	ND	14.14	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-12	11-20-96	22.77	8.38	ND	14.39	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-12	03-24-97	20.11	8.75	ND	11.36	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	05-23-97	20.11	8.92	ND	11.19	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-12	08-19-97	20.11	9.20	ND	10.91	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-12	11-19-97	20.11	9.20	ND	10.91	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-12	02-19-98	20.11	6.28	ND	13.83	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-12	04-23-98	20.11	7.52	ND	12.59	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-12	07-27-98	20.11	8.52	ND	11.59	07-27-98	Not sampled: well sampled annually, during the first quarter										
MW-12	10-14-98	20.11	9.06	ND	11.05	10-14-98	Not sampled: well sampled annually, during the first quarter										
MW-12	01-21-99	20.11	8.20	ND	11.91	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-12	05-06-99	20.11	8.47	ND	11.64	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-12	08-23-99	20.11	9.04	ND	11.07	08-24-99	Not sampled: well sampled annually, during the first quarter										0.85
MW-12	10-28-99	20.11	9.40	ND	10.71	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-12	02-04-00	20.11	8.38	ND	11.73	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	3.34	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-13	03-17-95	22.45	6.91	ND	15.54	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-13	06-01-95	22.45	7.72	ND	14.73	06-01-95	Not sampled: well sampled annually, during the first quarter										
MW-13	08-31-95	22.45	7.58	ND	14.87	08-31-95	Not sampled: well sampled annually, during the first quarter										
MW-13	11-27-95	22.45	7.98	ND	14.47	11-27-95	Not sampled: well sampled annually, during the first quarter										
MW-13	02-22-96	22.45	6.71	ND	15.74	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	05-20-96	22.45	6.98	ND	15.47	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-13	08-26-96	22.45	7.85	ND	14.60	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-13	11-20-96	22.45	7.76	ND	14.69	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-13	03-24-97	20.75	7.85	ND	12.90	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	05-23-97	20.75	8.16	ND	12.59	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-13	08-19-97	20.75	8.40	ND	12.35	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-13	11-19-97	20.75	8.40	ND	12.35	11-19-97	Not sampled: well sampled annually, during the first quarter										
MW-13	02-19-98	20.75	6.44	ND	14.31	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-13	04-23-98	20.75	6.80	ND	13.95	04-23-98	Not sampled: well sampled annually, during the first quarter										
MW-13	07-27-98	20.75	7.52	ND	13.23	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-13	10-14-98	20.75	8.15	ND	12.60	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	2.0	P
MW-13	01-21-99	20.75	7.85	ND	12.90	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-13	05-06-99	20.75	7.82	ND	12.93	05-06-99	Not sampled: well sampled annually, during the first quarter										
MW-13	08-23-99	20.75	8.29	ND	12.46	08-24-99	Not sampled: well sampled annually, during the first quarter										0.94
MW-13	10-28-99	20.75	8.55	ND	12.20	10-28-99	Not sampled: well sampled annually, during the first quarter										
MW-13	02-04-00	20.75	8.11	ND	12.64	02-05-00	<50	<0.5	0.6	<0.5	<1	<3	--	--	--	1.27	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-14	03-17-95	22.99	8.17	ND	14.82	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-14	06-01-95	22.99	8.57	ND	14.42	06-01-95	Not sampled: well sampled annually, during the first quarter										
MW-14	08-31-95	22.99	9.05	ND	13.94	08-31-95	Not sampled: well sampled annually, during the first quarter										
MW-14	11-27-95	22.99	9.19	ND	13.80	11-27-95	Not sampled: well sampled annually, during the first quarter										
MW-14	02-22-96	22.99	6.52	ND	16.47	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	05-20-96	22.99	7.88	ND	15.11	05-21-96	Not sampled: well sampled annually, during the first quarter										
MW-14	08-26-96	22.99	8.83	ND	14.16	08-26-96	Not sampled: well sampled annually, during the first quarter										
MW-14	11-20-96	22.99	8.95	ND	14.04	11-20-96	Not sampled: well sampled annually, during the first quarter										
MW-14	03-24-97	20.90	8.98	ND	11.92	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	05-23-97	20.90	9.61	ND	11.29	05-23-97	Not sampled: well sampled annually, during the first quarter										
MW-14	08-19-97	20.90	9.80	ND	11.10	08-19-97	Not sampled: well sampled annually, during the first quarter										
MW-14	11-19-97	20.90	9.80	ND	11.10	11-19-97	<50	1.7	<0.5	0.6	3	<3					
MW-14	02-19-98	20.90	6.27	ND	14.63	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-14	04-23-98	20.90	7.75	ND	13.15	04-23-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.5	P
MW-14	07-27-98	20.90	9.24	ND	11.66	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-14	10-14-98	20.90	9.73	ND	11.17	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.0	P
MW-14	01-21-99	20.90	8.90	ND	12.00	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	1.5	P
MW-14	05-06-99	20.90	8.98	ND	11.92	05-06-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.73	P
MW-14	08-23-99	20.90	9.68	ND	11.22	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	0.91	P
MW-14	10-28-99	20.90	10.00	ND	10.90	10-28-99	<50	<0.5	<0.5	<0.5	<1	<10	--	--	--	1.06	P
MW-14	02-04-00	20.90	8.19	ND	12.71	02-05-00	<50	<0.5	0.5	<0.5	<1	<3	--	--	--	1.21	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
MW-15	03-17-95	19.19	5.21	ND	13.98	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	06-01-95	19.19	5.84	ND	13.35	06-01-95	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	08-31-95	19.19	6.18	ND	13.01	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-15	11-27-95	19.19	6.42	ND	12.77	11-27-95	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	02-22-96	19.19	4.84	ND	14.35	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--		
MW-15	05-20-96	19.19	5.31	ND	13.88	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	08-26-96	19.19	6.05	ND	13.14	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--		
MW-15	11-20-96	19.19	5.46	ND	13.73	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	03-24-97	22.08	6.00	ND	16.08	03-24-97	<50	<0.5	<0.5	<0.5	<0.5	15	--	--	--		
MW-15	05-23-97	22.08	6.25	ND	15.83	05-23-97	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	08-19-97	22.08	6.34	ND	15.74	08-19-97	99[1]	<0.5	<0.5	<0.5	0.7	6	--	--	--		
MW-15	11-19-97	22.08	6.34	ND	15.74	11-19-97	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	02-19-98	22.08	4.66	ND	17.42	02-19-98	<50	<0.5	<0.5	<0.5	<0.5	48	--	--	--		
MW-15	04-23-98	22.08	5.18	ND	16.90	04-23-98	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	07-27-98	22.08	6.02	ND	16.06	07-27-98	<50	<0.5	<0.5	<0.5	<0.5	50	--	--	--	1.0	P
MW-15	10-14-98	22.08	6.26	ND	15.82	10-14-98	<50	<0.5	<0.5	<0.5	<0.5	27	--	--	--	1.5	P
MW-15	01-21-99	22.08	5.33	ND	16.75	01-22-99	<50	<0.5	<0.5	<0.5	<0.5	6	--	--	--	1.0	P
MW-15	05-06-99	22.08	5.82	ND	16.26	05-06-99	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	08-23-99	22.08	6.24	ND	15.84	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	21	--	--	--	1.14	P
MW-15	10-28-99	22.08	6.60	ND	15.48	10-28-99	Not sampled: well sampled semi-annually, during the first and third quarters									--	
MW-15	02-04-00	22.08	7.02	ND	15.06	02-04-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	1.09	P

Table 1
Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Floating Product Thickness feet	Groundwater Elevation ft-MSL	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8021B* µg/L	Toluene EPA 8021B* µg/L	Ethylbenzene EPA 8021B* µg/L	Total Xylenes EPA 8021B* µg/L	MTBE EPA 8021B* µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L	Dissolved Oxygen mg/L	Purged/ Not Purged P/NP
ft-MSL: elevation in feet, relative to mean sea level TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method MTBE: Methyl tert-butyl ether TRPH: total recoverable petroleum hydrocarbons TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method µg/L: micrograms per liter mg/L: milligrams per liter ND: none detected DRY: dry well; groundwater was not detected -- : not analyzed (1): Sample contains a higher boiling point hydrocarbon mixture quantitated as gasoline. The chromatogram did not match the typical gasoline fingerprint. *: EPA method 8020 prior to 10/28/99 **: [corrected elevation (Z')] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water ***: For previous historical groundwater elevation and analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i>, (EMCON, March 14, 1996).																	

Table 2
Groundwater Flow Direction and Gradient

ARCO Service Station No. 601
712 Lewelling Boulevard, San Leandro, California

Date Measured	Average Flow Direction	Average Hydraulic Gradient
03/17/95	West-Southwest	0.006
06/01/95	Southwest	0.003
08/31/95	South-Southwest	0.005
11/27/95	South-Southwest	0.004
02/22/96	Northwest	0.007
05/20/96	Southwest	0.007
08/26/96	South-Southwest	0.004
11/20/96	South-Southeast	0.004
03/24/97	Southeast	0.013
05/23/97	Southeast	0.014
08/19/97	Southeast	0.04
11/19/97	Southeast	0.016
02/19/98	East	Variable
04/23/98	Variable	Variable
07/27/98	Southeast	0.05
10/14/98	Southeast	0.02
01/21/99	East	0.04
05/06/99	Southeast	0.05
08/23/99	Southeast	0.02
10/28/99	Southeast	0.04
02/04/00	East-Southeast	0.053

Table 3
Historical Groundwater Analytical Data
Metals*
1995 - Present**

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Sample Field Date	Cadmium EPA 6010 µg/L	Chromium EPA 6010 µg/L	Lead EPA 7421 µg/L	Nickel EPA 6010 µg/L	Zinc EPA 6010 µg/L
MW-1	03-17-95	<5	20	20	<40	60
MW-1	06-01-95	<5	20	22	70	100
MW-1	08-31-95	Not sampled: well contained floating product				
MW-1	11-27-95	Not sampled: well contained floating product				
MW-1	03-14-96	Not sampled: well contained floating product				
MW-1	05-21-96	0.006	<0.01	<0.005	<0.02	<0.02
MW-1	08-26-96	--	--	--	--	--
MW-1	11-20-96	--	--	--	--	--
MW-1	03-24-97	--	--	--	--	--
MW-1	05-23-97	Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1				
MW-1	08-19-97	--	--	--	--	--
MW-1	11-19-97	--	--	--	--	--
MW-1	02-19-98	<0.01	<0.01	<0.05	<0.02	<0.02
MW-1	04-23-98	--	--	--	--	--
MW-1	07-27-98	--	--	--	--	--
MW-1	10-14-98	--	--	--	--	--
MW-1	01-22-99	<0.005	<0.01	<0.05	<0.02	<0.02
MW-1	05-06-99	--	--	--	--	--
MW-1	08-24-99	--	--	--	--	--
MW-1	10-28-99	--	--	--	--	--
MW-1	02-04-00	Not analyzed for metals				
MW-8	08-31-95	<5	40	16	50	90
MW-8	11-27-95	<5	130	77	170	280
MW-8	03-14-96	<5	30	7	40	60
MW-8	05-23-97	<0.005	<0.01	<0.005	<0.02	<0.02

EPA: United States Environmental Protection Agency

mg/L: micrograms per liter

-- : not analyzed

*: Historically samples were analyzed for total metals. Since March 14, 1996, the samples were filtered and analyzed for dissolved metals

**: For previous historical analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California*, (EMCON, March 14, 1996).

Table 4
Historical Groundwater Analytical Data
Volatile and Semivolatile Organic Compounds
1995 - Present*

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation	Water Sample Field Date	Volatile Organic Compounds by EPA Method 601/8010 or 624/8240							Semivolatile Organic Compounds by EPA Method 3520/8270				
		Methylene Chloride μg/L	1,2-Dichloro-ethane μg/L	1,1-Dichloro-ethane μg/L	Benzene μg/L	Toluene μg/L	Ethylbenzene μg/L	Total Xylenes μg/L	Naphthalene μg/L	2-Methyl-naphthalene μg/L	Bis (2-ethylhexyl) Phthalate μg/L	Phenol μg/L	2,4-Di-methyl-phenol μg/L
MW-1	03-17-95	--	--	--	--	--	--	--	1300	730	<50	ND	150
MW-1	06-01-95	--	--	--	--	--	--	--	2200	1700	<100	240	<100
MW-1	08-31-95	Not sampled: well contained floating product											
MW-1	11-27-95	Not sampled: well contained floating product											
MW-1	03-14-96	Not sampled: well contained floating product											
MW-1	05-21-96	--	--	--	--	--	--	--	1200	860	<50	<50	<50
MW-1	08-26-96	--	--	--	--	--	--	--	2300	1800	<500	<500	<1000
MW-1	11-20-96	--	--	--	--	--	--	--	590	250	91	<50	<100
MW-1	03-24-97	--	--	--	--	--	--	--	730	610	<50	<50	<100
MW-1	05-23-97	Not analyzed: well MW-8 was sampled for additional parameters in lieu of well MW-1											
MW-1	08-19-97	--	--	--	--	--	--	--	1,300	790	<50	<50	<100
MW-1	11-19-97	--	--	--	--	--	--	--	<5	<5	5	<5	<10
MW-1	02-19-98	--	--	--	--	--	--	--	870	330	<50	<50	<100
MW-1	04-23-98	Not analyzed											
MW-1	07-27-98	Not analyzed											
MW-1	10-14-98	Not analyzed											
MW-1	01-28-99**	--	--	--	--	--	--	--	950	580	<50	<50	<100
MW-1	05-06-99	Not analyzed											
MW-1	08-24-99	--	--	--	--	--	--	--	1,200	400	<50	<50	<100
MW-1	10-28-99	--	--	--	--	--	--	--	1,100	320	<50	<50	<100
MW-1	02-04-00	--	--	--	--	--	--	--	780	330	<50	<50	<100

Table 4
Historical Groundwater Analytical Data
Volatile and Semivolatile Organic Compounds
1995 - Present*

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Designation Water Sample Field Date	Volatile Organic Compounds by EPA Method 601/8010 or 624/8240							Semivolatile Organic Compounds by EPA Method 3520/8270				
	Methylene Chloride µg/L	1,2-Dichloro- ethane µg/L	1,1-Dichloro- ethane µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Naphthalene µg/L	2-Methyl- naphthalene µg/L	Bis (2-ethylhexyl) Phthalate µg/L	Phenol µg/L	2,4-Di-methyl- phenol µg/L
MW-8 08-31-95	--	--	--	--	--	--	--	62	8	<5	<5	<5
MW-8 11-27-95	--	--	--	--	--	--	--	15	<5	<5	<5	<5
MW-8 03-14-96	--	--	--	--	--	--	--	400	55	<50	<50	<50
MW-8 05-23-97	--	--	--	--	--	--	--	26	<5	<5	<5	<10
EPA: United States Environmental Protection Agency µg/L: micrograms per liter -- : not analyzed < = less than the laboratory detection limit stated to the right *: For previous historical analytical data please refer to <i>Fourth Quarter 1995 Groundwater Monitoring Program Results, ARCO Service Station 601, San Leandro, California</i> , (EMCON, March 14, 1996). **: Sampling date is different from Groundwater Monitoring Field Date												

Table 5
Approximate Cumulative Floating Product Recovered

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Well Desig- nation	Date	Floating Product Recovered gallons
MW-1	1991	3.43
MW-1	1992	0.02
MW-1	1993	0.00
MW-1	1994	0.00
MW-1	1995	0.00
MW-1	1996	0.00
MW-1	1997	0.00
MW-1	1998	0.00
MW-1	1999	0.00
MW-1	2000	0.00
1991 to 2000 Total:		3.45

ATTACHMENT C

**CERTIFIED ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY**



**Sequoia
Analytical**

819 Striker Avenue, Suite 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

30 April, 2002

Steven Meeks
Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670

RE: ARCO 601, San Leandro, CA
Sequoia Report: S204355

Enclosed are the results of analyses for samples received by the laboratory on 04/19/02 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lito Diaz
Laboratory Director

CA ELAP Certificate #1624



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10	S204355-01	Water	04/18/02 06:50	04/19/02 15:20

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:36

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (S204355-01) Water Sampled: 04/18/02 06:50 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2040344	04/26/02	04/26/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.8	2.5	"	"	"	"	"	"	C-07
Surrogate: a,a,a-Trifluorotoluene		94.8 %	60-140		"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:36

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2040344 - EPA 5030B (P/T)

Blank (2040344-BLK1)

Prepared & Analyzed: 04/26/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	10.3		"	10.0		103	60-140			

LCS (2040344-BS1)

Prepared & Analyzed: 04/26/02

Benzene	11.2	0.50	ug/l	10.0		112	70-130			
Toluene	10.1	0.50	"	10.0		101	70-130			
Ethylbenzene	10.3	0.50	"	10.0		103	70-130			
Xylenes (total)	32.4	0.50	"	30.0		108	70-130			
Methyl tert-butyl ether	12.4	2.5	"	10.0		124	70-130			
Surrogate: a,a,a-Trifluorotoluene	11.2		"	10.0		112	60-140			

Matrix Spike (2040344-MS1)

Source: S204354-05

Prepared & Analyzed: 04/26/02

Benzene	10.3	0.50	ug/l	10.0	ND	103	60-140			
Toluene	9.68	0.50	"	10.0	ND	96.8	60-140			
Ethylbenzene	10.1	0.50	"	10.0	ND	101	60-140			
Xylenes (total)	31.8	0.50	"	30.0	ND	106	60-140			
Methyl tert-butyl ether	10.3	2.5	"	10.0	ND	103	60-140			
Surrogate: a,a,a-Trifluorotoluene	10.2		"	10.0		102	60-140			

Matrix Spike Dup (2040344-MSD1)

Source: S204354-05

Prepared & Analyzed: 04/26/02

Benzene	9.99	0.50	ug/l	10.0	ND	99.9	60-140	3.06	25	
Toluene	9.40	0.50	"	10.0	ND	94.0	60-140	2.94	25	
Ethylbenzene	9.75	0.50	"	10.0	ND	97.5	60-140	3.53	25	
Xylenes (total)	31.0	0.50	"	30.0	ND	103	60-140	2.55	25	
Methyl tert-butyl ether	14.7	2.5	"	10.0	ND	147	60-140	35.2	25	QM-07
Surrogate: a,a,a-Trifluorotoluene	10.6		"	10.0		106	60-140			



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
04/30/02 17:36

Notes and Definitions

C-07 The reported compound(s) have been confirmed by a second (dissimilar) column or detector.

QM-07 The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

Steven M. McKee

638 2085

(Consultant) 638 8385

Address
(Consultant)

Sequoia

Contract number

Method of shipment

Special detection
Limit reporting

Special QA/QC

Remarks

Type of Work

- ☐ Dispenser Work
☐ Line Job
☐ Routine Sampling
☐ Site Acquisitions
☐ Site Assessment
☐ UST Removal
☐ UST Replacement
☐ Other

Lab number

Turnaround time

Priority Rush
1 Business Day

**Rush
2 Business Days**

**Expedited
5 Business Days**

Standard
10 Business Days

[illegible]

Condition of sample:

Relinquished by sampler

Retracted

Relinquished by

Temperature received:

Received by

Received by

Received by laboratory

Date _____

Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3282 12-011

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME:

REC. BY (PRINT)

WORKORDER:

Della Env
monica
S204355

DATE Received at Lab:

TIME Received at Lab:

LOG IN DATE:

4/19/02
1530
4/22/02

(Drinking water) for

regulatory purposes:

YES ☒ NO

(Wastewater) for

regulatory purposes:

YES ☒ NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present ☒ Absent Intact / Broken*	S204355	01	MW-ID	VOA-	w	4/18/02	
2. Chain-of-Custody	☒ Present / Absent*							
3. Traffic Reports or Packing List:	Present ☒ Absent							
4. Airbill:	Airbill / Sticker Present ☒ Absent							
5. Airbill #:								
6. Sample Labels:	☒ Present / Absent							
7. Sample IDs:	☒ Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	☒ Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree?	☒ Yes / No*							
10. Sample received within hold time:	☒ Yes / No*							
11. Proper Preservatives used:	☒ Yes / No*							
12. Temp Rec. at Lab:								
(Acceptance range for samples requiring thermal pres.: 4+/-2°C)	Yes / No*							

*If Circled, contact Project Manager and attach record of resolution.



**Sequoia
Analytical**

819 Striker Avenue, Suite 8
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3 May, 2002

Steven Meeks
Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA 95670

RE: ARCO 601, San Leandro, CA
Sequoia Report: S204365

Enclosed are the results of analyses for samples received by the laboratory on 04/19/02 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lito Diaz
Laboratory Director

CA ELAP Certificate #1624



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	S204365-01	Water	04/18/02 09:05	04/19/02 15:20
MW-4	S204365-02	Water	04/18/02 08:40	04/19/02 15:20
MW-5	S204365-03	Water	04/18/02 08:10	04/19/02 15:20
MW-6	S204365-04	Water	04/18/02 07:50	04/19/02 15:20
MW-7	S204365-05	Water	04/18/02 07:15	04/19/02 15:20
MW-14	S204365-06	Water	04/18/02 06:15	04/19/02 15:20
TB	S204365-07	Water	04/18/02 05:00	04/19/02 15:20

Sequoia Analytical - Sacramento

Ron Chew, Client Services Representative

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Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S204365-01) Water Sampled: 04/18/02 09:05 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	16000	5000	ug/l	100	2050003	04/30/02	04/30/02	DHS LUFT	HC-12
Benzene	3000	50	"	"	"	"	"	"	
Toluene	180	50	"	"	"	"	"	"	
Ethylbenzene	2600	50	"	"	"	"	"	"	
Xylenes (total)	320	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		121 %	60-140		"	"	"	"	
MW-4 (S204365-02) Water Sampled: 04/18/02 08:40 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050003	04/30/02	04/30/02	DHS LUFT	
Benzene	0.57	0.50	"	"	"	"	"	"	
Toluene	0.83	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	1.1	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.7	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %	60-140		"	"	"	"	
MW-5 (S204365-03) Water Sampled: 04/18/02 08:10 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	17000	5000	ug/l	100	2050003	04/30/02	04/30/02	DHS LUFT	
Benzene	3200	50	"	"	"	"	"	"	
Toluene	2900	50	"	"	"	"	"	"	
Ethylbenzene	790	50	"	"	"	"	"	"	
Xylenes (total)	3000	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		115 %	60-140		"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (S204365-04) Water Sampled: 04/18/02 07:50 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	2200	1000	ug/l	20	2050008	05/01/02	05/01/02	DHS LUFT	
Benzene	440	10	"	"	"	"	"	"	
Toluene	12	10	"	"	"	"	"	"	
Ethylbenzene	96	10	"	"	"	"	"	"	
Xylenes (total)	14	10	"	"	"	"	"	"	
Methyl tert-butyl ether	52	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	60-140		"	"	"	"	
MW-7 (S204365-05) Water Sampled: 04/18/02 07:15 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050003	04/30/02	04/30/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	2.7	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	60-140		"	"	"	"	
MW-14 (S204365-06) Water Sampled: 04/18/02 06:15 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050003	04/30/02	04/30/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	60-140		"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB (S204365-07) Water Sampled: 04/18/02 05:00 Received: 04/19/02 15:20									
Purgeable Hydrocarbons	ND	50	ug/l	1	2050003	04/30/02	04/30/02	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	1.6	0.50	"	"	"	"	"	"	C-07
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	0.81	0.50	"	"	"	"	"	"	C-07
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		115 %	60-140		"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

**Total Metals by EPA 200 Series Methods
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S204365-01) Water Sampled: 04/18/02 09:05 Received: 04/19/02 15:20									
Cadmium	ND	0.0050	mg/l	1	2040318	04/26/02	05/01/02	EPA 200.7	
Copper	0.022	0.0050	"	"	"	"	"	"	
Nickel	ND	0.020	"	"	"	"	"	"	
Lead	ND	0.050	"	"	"	"	"	"	
Zinc	0.082	0.020	"	"	"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S204365-01) Water Sampled: 04/18/02 09:05 Received: 04/19/02 15:20									
Acenaphthene	ND	5.0	ug/l	1	2D25011	04/25/02	04/26/02	EPA 8270C	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
Aniline	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	5.0	"	"	"	"	"	"	
Benzoic acid	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.0	"	"	"	"	"	"	
Benzo[a]pyrene	ND	5.0	"	"	"	"	"	"	
Benzyl alcohol	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	50	"	"	"	"	"	"	
4-Chloroaniline	ND	25	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	5.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Chrysene	ND	5.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	5.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	10	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	5.0	"	"	"	"	"	"	
Diethyl phthalate	ND	5.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S204365-01) Water Sampled: 04/18/02 09:05 Received: 04/19/02 15:20									
Fluorene	ND	5.0	ug/l	1	2D25011	04/25/02	04/26/02	EPA 8270C	
Hexachlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	250	50	"	10	"	"	04/29/02	"	
2-Methylphenol	ND	5.0	"	1	"	"	04/26/02	"	
4-Methylphenol	ND	5.0	"	"	"	"	"	"	
Naphthalene	880	50	"	10	"	"	04/29/02	"	
2-Nitroaniline	ND	10	"	1	"	"	04/26/02	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	5.0	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	5.0	"	"	"	"	"	"	
Phenol	ND	5.0	"	"	"	"	"	"	
Pyrene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		38 %		21-110	"	"	"	"	
<i>Surrogate: Phenol-d6</i>		27 %		10-110	"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		69 %		35-114	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		78 %		43-116	"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		96 %		10-123	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		74 %		33-141	"	"	"	"	



Delta Environmental Consultants (Rancho Cordova)
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Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050003 - EPA 5030B (P/T)

Blank (2050003-BLK1)

Prepared & Analyzed: 04/30/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							

Surrogate: a,a,a-Trifluorotoluene 10.8 " 10.0 108 60-140

LCS (2050003-BS1)

Prepared & Analyzed: 04/30/02

Benzene	11.7	0.50	ug/l	10.0		117	70-130			
Toluene	10.8	0.50	"	10.0		108	70-130			
Ethylbenzene	11.2	0.50	"	10.0		112	70-130			
Xylenes (total)	32.3	0.50	"	30.0		108	70-130			
Methyl tert-butyl ether	11.8	2.5	"	10.0		118	70-130			

Surrogate: a,a,a-Trifluorotoluene 11.8 " 10.0 118 60-140

Matrix Spike (2050003-MS1)

Source: S204377-10

Prepared & Analyzed: 04/30/02

Benzene	12.2	0.50	ug/l	10.0	1.2	110	60-140			
Toluene	10.3	0.50	"	10.0	ND	101	60-140			
Ethylbenzene	10.7	0.50	"	10.0	ND	107	60-140			
Xylenes (total)	30.9	0.50	"	30.0	ND	102	60-140			
Methyl tert-butyl ether	52.5	2.5	"	10.0	41	115	60-140			

Surrogate: a,a,a-Trifluorotoluene 10.6 " 10.0 106 60-140

Matrix Spike Dup (2050003-MSD1)

Source: S204377-10

Prepared & Analyzed: 04/30/02

Benzene	13.1	0.50	ug/l	10.0	1.2	119	60-140	7.11	25	
Toluene	11.1	0.50	"	10.0	ND	109	60-140	7.48	25	
Ethylbenzene	11.5	0.50	"	10.0	ND	115	60-140	7.21	25	
Xylenes (total)	33.5	0.50	"	30.0	ND	110	60-140	8.07	25	
Methyl tert-butyl ether	53.2	2.5	"	10.0	41	122	60-140	1.32	25	

Surrogate: a,a,a-Trifluorotoluene 10.5 " 10.0 105 60-140



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2050008 - EPA 5030B (P/T)									
Blank (2050008-BLK1)					Prepared & Analyzed: 05/01/02				
Purgeable Hydrocarbons	ND	50	ug/l						
Benzene	ND	0.50	"						
Toluene	ND	0.50	"						
Ethylbenzene	ND	0.50	"						
Xylenes (total)	ND	0.50	"						
Methyl tert-butyl ether	ND	2.5	"						
Surrogate: a,a,a-Trifluorotoluene	9.93		"	10.0		99.3	60-140		
LCS (2050008-BS1)					Prepared & Analyzed: 05/01/02				
Benzene	10.6	0.50	ug/l	10.0		106	70-130		
Toluene	10.5	0.50	"	10.0		105	70-130		
Ethylbenzene	10.3	0.50	"	10.0		103	70-130		
Xylenes (total)	31.7	0.50	"	30.0		106	70-130		
Methyl tert-butyl ether	11.5	2.5	"	10.0		115	70-130		
Surrogate: a,a,a-Trifluorotoluene	10.6		"	10.0		106	60-140		
LCS Dup (2050008-BSD1)					Prepared & Analyzed: 05/01/02				
Benzene	9.93	0.50	ug/l	10.0		99.3	70-130	6.53	25
Toluene	9.82	0.50	"	10.0		98.2	70-130	6.69	25
Ethylbenzene	9.66	0.50	"	10.0		96.6	70-130	6.41	25
Xylenes (total)	29.5	0.50	"	30.0		98.3	70-130	7.19	25
Methyl tert-butyl ether	10.1	2.5	"	10.0		101	70-130	13.0	25
Surrogate: a,a,a-Trifluorotoluene	9.24		"	10.0		92.4	60-140		



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Reported:
05/03/02 15:26

**Total Metals by EPA 200 Series Methods - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2040318 - EPA 3010A

Blank (2040318-BLK1)

Prepared: 04/26/02 Analyzed: 05/01/02

Cadmium	ND	0.0050	mg/l							
Copper	ND	0.0050	"							
Lead	ND	0.050	"							
Nickel	ND	0.020	"							
Zinc	ND	0.020	"							

LCS (2040318-BS1)

Prepared: 04/26/02 Analyzed: 05/01/02

Cadmium	0.510	0.0050	mg/l	0.500		102	80-120			
Copper	0.490	0.0050	"	0.500		98.0	80-120			
Lead	0.526	0.050	"	0.500		105	80-120			
Nickel	0.514	0.020	"	0.500		103	80-120			
Zinc	0.511	0.020	"	0.500		102	80-120			

Matrix Spike (2040318-MS1)

Source: S204365-01

Prepared: 04/26/02 Analyzed: 05/01/02

Cadmium	0.503	0.0050	mg/l	0.500	ND	101	80-120			
Copper	0.504	0.0050	"	0.500	0.022	96.4	80-120			
Lead	0.502	0.050	"	0.500	ND	100	80-120			
Nickel	0.487	0.020	"	0.500	ND	97.4	80-120			
Zinc	0.582	0.020	"	0.500	0.082	100	80-120			

Matrix Spike Dup (2040318-MSD1)

Source: S204365-01

Prepared: 04/26/02 Analyzed: 05/01/02

Cadmium	0.500	0.0050	mg/l	0.500	ND	100	80-120	0.598	20	
Copper	0.502	0.0050	"	0.500	0.022	96.0	80-120	0.398	20	
Lead	0.511	0.050	"	0.500	ND	102	80-120	1.78	20	
Nickel	0.491	0.020	"	0.500	ND	98.2	80-120	0.818	20	
Zinc	0.588	0.020	"	0.500	0.082	101	80-120	1.03	20	



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

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Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D25011 - EPA 3510B Sep Funnel

Blank (2D25011-BLK1)

Prepared: 04/24/02 Analyzed: 04/25/02

Acenaphthene	ND	5.0	ug/l
Acenaphthylene	ND	5.0	"
Aniline	ND	5.0	"
Anthracene	ND	5.0	"
Benzoic acid	ND	10	"
Benzo (a) anthracene	ND	5.0	"
Benzo (b) fluoranthene	ND	5.0	"
Benzo (k) fluoranthene	ND	5.0	"
Benzo (ghi) perylene	ND	5.0	"
Benzo[a]pyrene	ND	5.0	"
Benzyl alcohol	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
Bis(2-ethylhexyl)phthalate	ND	10	"
4-Bromophenyl phenyl ether	ND	5.0	"
Butyl benzyl phthalate	ND	50	"
4-Chloroaniline	ND	25	"
2-Chloronaphthalene	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
2-Chlorophenol	ND	5.0	"
4-Chlorophenyl phenyl ether	ND	5.0	"
Chrysene	ND	5.0	"
Dibenz (a,h) anthracene	ND	10	"
Dibenzofuran	ND	5.0	"
Di-n-butyl phthalate	ND	10	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	10	"
3,3'-Dichlorobenzidine	ND	10	"
2,4-Dichlorophenol	ND	5.0	"
Diethyl phthalate	ND	5.0	"
2,4-Dimethylphenol	ND	5.0	"
Dimethyl phthalate	ND	5.0	"
4,6-Dinitro-2-methylphenol	ND	10	"
2,4-Dinitrophenol	ND	10	"

Sequoia Analytical - Sacramento

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Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova, CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D25011 - EPA 3510B Sep Funnel

Blank (2D25011-BLK1)

Prepared: 04/24/02 Analyzed: 04/25/02

2,4-Dinitrotoluene	ND	10	ug/l							
2,6-Dinitrotoluene	ND	10	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	5.0	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	10	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	5.0	"							
2-Methylnaphthalene	ND	5.0	"							
2-Methylphenol	ND	5.0	"							
4-Methylphenol	ND	5.0	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	5.0	"							
2-Nitrophenol	ND	5.0	"							
4-Nitrophenol	ND	10	"							
N-Nitrosodimethylamine	ND	5.0	"							
N-Nitrosodiphenylamine	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Pentachlorophenol	ND	10	"							
Phenanthrene	ND	5.0	"							
Phenol	ND	5.0	"							
Pyrene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
Surrogate: 2-Fluorophenol	58.4		"	150		39	21-110			
Surrogate: Phenol-d6	39.4		"	150		26	10-110			
Surrogate: Nitrobenzene-d5	61.7		"	100		62	35-114			
Surrogate: 2-Fluorobiphenyl	63.3		"	100		63	43-116			
Surrogate: 2,4,6-Tribromophenol	112		"	150		75	10-123			



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Rancho Cordova CA, 95670

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Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D25011 - EPA 3510B Sep Funnel

Blank (2D25011-BLK1)

Prepared: 04/24/02 Analyzed: 04/25/02

Surrogate: *p*-Terphenyl-*d*14 101 ug/l 100 101 33-141

Blank (2D25011-BLK2)

Prepared: 04/25/02 Analyzed: 04/26/02

Acenaphthene	ND	5.0	ug/l
Acenaphthylene	ND	5.0	"
Aniline	ND	5.0	"
Anthracene	ND	5.0	"
Benzoic acid	ND	10	"
Benzo (a) anthracene	ND	5.0	"
Benzo (b) fluoranthene	ND	5.0	"
Benzo (k) fluoranthene	ND	5.0	"
Benzo (ghi) perylene	ND	5.0	"
Benzo[a]pyrene	ND	5.0	"
Benzyl alcohol	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
Bis(2-ethylhexyl)phthalate	ND	10	"
4-Bromophenyl phenyl ether	ND	5.0	"
Butyl benzyl phthalate	ND	50	"
4-Chloroaniline	ND	25	"
2-Chloronaphthalene	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
2-Chlorophenol	ND	5.0	"
4-Chlorophenyl phenyl ether	ND	5.0	"
Chrysene	ND	5.0	"
Dibenz (a,h) anthracene	ND	10	"
Dibenzofuran	ND	5.0	"
Di-n-butyl phthalate	ND	10	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	10	"
3,3'-Dichlorobenzidine	ND	10	"
2,4-Dichlorophenol	ND	5.0	"
Diethyl phthalate	ND	5.0	"
2,4-Dimethylphenol	ND	5.0	"

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Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2D25011 - EPA 3510B Sep Funnel										
Blank (2D25011-BLK2)				Prepared: 04/25/02 Analyzed: 04/26/02						
Dimethyl phthalate	ND	5.0	ug/l							
4,6-Dinitro-2-methylphenol	ND	10	"							
2,4-Dinitrophenol	ND	10	"							
2,4-Dinitrotoluene	ND	10	"							
2,6-Dinitrotoluene	ND	10	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	5.0	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	10	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	5.0	"							
2-Methylnaphthalene	ND	5.0	"							
2-Methylphenol	ND	5.0	"							
4-Methylphenol	ND	5.0	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	5.0	"							
2-Nitrophenol	ND	5.0	"							
4-Nitrophenol	ND	10	"							
N-Nitrosodimethylamine	ND	5.0	"							
N-Nitrosodiphenylamine	ND	5.0	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
Pentachlorophenol	ND	10	"							
Phenanthrene	ND	5.0	"							
Phenol	ND	5.0	"							
Pyrene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
Surrogate: 2-Fluorophenol	69.6		"	150		46	21-110			
Surrogate: Phenol-d6	48.6		"	150		32	10-110			

Sequoia Analytical - Sacramento

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Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D25011 - EPA 3510B Sep Funnel

Blank (2D25011-BLK2)

Prepared: 04/25/02 Analyzed: 04/26/02

Surrogate: Nitrobenzene-d5	71.4		ug/l	100		71	35-114		
Surrogate: 2-Fluorobiphenyl	82.6		"	100		83	43-116		
Surrogate: 2,4,6-Tribromophenol	122		"	150		81	10-123		
Surrogate: p-Terphenyl-d14	90.7		"	100		91	33-141		

LCS (2D25011-BS1)

Prepared: 04/24/02 Analyzed: 04/25/02

Acenaphthene	65.2	5.0	ug/l	100		65	46-118		
4-Chloro-3-methylphenol	76.9	5.0	"	150		51	23-97		
2-Chlorophenol	74.2	5.0	"	150		49	27-123		
1,4-Dichlorobenzene	51.3	10	"	100		51	36-97		
2,4-Dinitrotoluene	76.1	10	"	100		76	24-96		
4-Nitrophenol	37.2	10	"	150		25	10-80		
N-Nitrosodi-n-propylamine	54.2	5.0	"	100		54	41-116		
Pentachlorophenol	92.8	10	"	150		62	9-103		
Phenol	33.2	5.0	"	150		22	12-110		
Pyrene	98.0	5.0	"	100		98	26-127		
1,2,4-Trichlorobenzene	53.6	5.0	"	100		54	39-98		
Surrogate: 2-Fluorophenol	50.2		"	150		33	21-110		
Surrogate: Phenol-d6	36.5		"	150		24	10-110		
Surrogate: Nitrobenzene-d5	61.7		"	100		62	35-114		
Surrogate: 2-Fluorobiphenyl	64.6		"	100		65	43-116		
Surrogate: 2,4,6-Tribromophenol	101		"	150		67	10-123		
Surrogate: p-Terphenyl-d14	83.5		"	100		84	33-141		

LCS (2D25011-BS2)

Prepared: 04/25/02 Analyzed: 04/26/02

Acenaphthene	76.3	5.0	ug/l	100		76	46-118		
4-Chloro-3-methylphenol	109	5.0	"	150		73	23-97		
2-Chlorophenol	105	5.0	"	150		70	27-123		
1,4-Dichlorobenzene	71.5	10	"	100		72	36-97		
2,4-Dinitrotoluene	90.4	10	"	100		90	24-96		
4-Nitrophenol	52.6	10	"	150		35	10-80		
N-Nitrosodi-n-propylamine	59.5	5.0	"	100		60	41-116		
Pentachlorophenol	119	10	"	150		79	9-103		
Phenol	42.6	5.0	"	150		28	12-110		
Pyrene	84.3	5.0	"	100		84	26-127		
1,2,4-Trichlorobenzene	70.5	5.0	"	100		70	39-98		
Surrogate: 2-Fluorophenol	68.8		"	150		46	21-110		

Sequoia Analytical - Sacramento

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D25011 - EPA 3510B Sep Funnel

LCS (2D25011-BS2)

Prepared: 04/25/02 Analyzed: 04/26/02

Surrogate: Phenol-d6	47.2		ug/l	150		31	10-110			
Surrogate: Nitrobenzene-d5	70.6		"	100		71	35-114			
Surrogate: 2-Fluorobiphenyl	78.1		"	100		78	43-116			
Surrogate: 2,4,6-Tribromophenol	126		"	150		84	10-123			
Surrogate: p-Terphenyl-d14	86.8		"	100		87	33-141			

LCS Dup (2D25011-BSD1)

Prepared: 04/24/02 Analyzed: 04/25/02

Acenaphthene	70.4	5.0	ug/l	100		70	46-118	8	30	
4-Chloro-3-methylphenol	101	5.0	"	150		67	23-97	27	30	
2-Chlorophenol	89.3	5.0	"	150		60	27-123	18	30	
1,4-Dichlorobenzene	51.4	10	"	100		51	36-97	0.2	30	
2,4-Dinitrotoluene	83.6	10	"	100		84	24-96	9	30	
4-Nitrophenol	44.6	10	"	150		30	10-80	18	30	
N-Nitrosodi-n-propylamine	57.2	5.0	"	100		57	41-116	5	30	
Pentachlorophenol	110	10	"	150		73	9-103	17	30	
Phenol	36.2	5.0	"	150		24	12-110	9	30	
Pyrene	105	5.0	"	100		105	26-127	7	30	
1,2,4-Trichlorobenzene	54.3	5.0	"	100		54	39-98	1	30	
Surrogate: 2-Fluorophenol	58.4		"	150		39	21-110			
Surrogate: Phenol-d6	39.5		"	150		26	10-110			
Surrogate: Nitrobenzene-d5	62.2		"	100		62	35-114			
Surrogate: 2-Fluorobiphenyl	67.8		"	100		68	43-116			
Surrogate: 2,4,6-Tribromophenol	127		"	150		85	10-123			
Surrogate: p-Terphenyl-d14	64.8		"	100		65	33-141			



Delta Environmental Consultants (Rancho Cordova)
3164 Gold Camp Drive Ste. 200
Rancho Cordova CA, 95670

Project: ARCO 601, San Leandro, CA
Project Number: 601, San Leandro, CA
Project Manager: Steven Meeks

Reported:
05/03/02 15:26

Notes and Definitions

C-07 The reported compound(s) have been confirmed by a second (dissimilar) column or detector.

HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

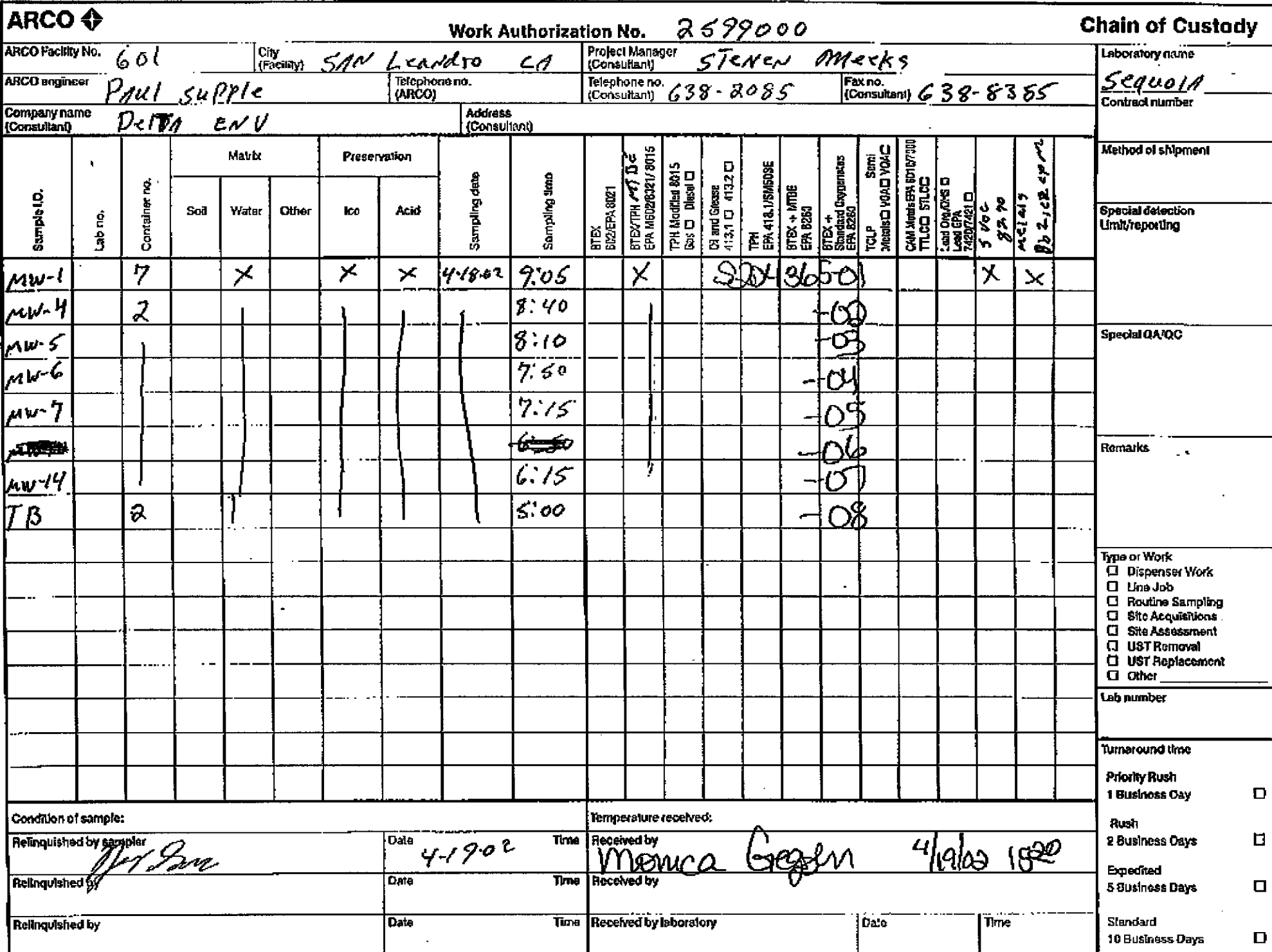
DET Analyte DETECTED

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



SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Delta Env
 REC. BY (PRINT) monica
 WORKORDER: 8204365

DATE Received at Lab: 4/19/02
 TIME Received at Lab: 1:30
 LOG IN DATE: 4/22/02

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

CIRCLE THE APPROPRIATE RESPONSE		JAR SAMPLE #	#	CLIENT ID	DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	CONDITION (ETC.)
1. Custody Seal(s)	Present / <u>Absent</u> Intact / Broken*	8204365	01	mw-1	UGA	W	4/18/02	
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	-14				
7. Sample IDs:	<u>Listed</u> / Not Listed on Chain-of-Custody		07	NS				
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does 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:	82.70 was preserved pH=1 <u>Yes</u> / No*							
12. Temp Rec. at Lab:								
(Acceptance range for samples requiring thermal pres.: 4 +/- 2°C)	Yes / No*							

*If Circled, contact Project Manager and attach record of resolution.

ATTACHMENT D

FIELD DATA SHEETS



Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670
Direct: (916) 638-2085
Fax: (916) 638-8385

Site Contact & Phone _____

Arco Site Address: 712 Lewelling Blvd.

San Leandro, CA

Arco Project Manager: Paul Supple

Site Sampled By: Doulos

Arco Site Number: 601

Delta Project No.: D000-303

Delta Project PM: Steven W. Weeks

Date Sampled: 4-18-02

Water Level Data						Purge Volume Calculations					Sampling Analytes					Sample Record		
Well ID	Time	Depth to Water (feet)	Top of Screen Interval (feet)	Total Depth of Well (feet)	Check if Purge Not Required	Casing Water Column (A)	Well Diameter (inches)	Multiplier Value (B)	Three Casing Volumes (gallons)	Actual Water Purged (gallons)	BTEX (8020) VOA	TPH-g (8015M) VOA	MTBE (8020) VOA	SVOCs (8270) VOA	Dissolved Oxygen (mg/L)	Sample Frequency (A, S, Q)	Sample I.D.	Sample Time
MW-1		7.05	7.0	10.8	☒		4 inch	2.0			☒	☒	☒	☒	1.26	Q/2,5,8,11	MW-1	9:05
MW-2		6.19	8.0	12.1	☐		4 inch	2.0			☐	☐	☐	☐	NM	A/2		
MW-3			8.0	NM	☐		4 inch	2.0	cor. Packed over well		☒	☒	☒	☐	NM	Q/2,5,8,11	MW-3	
MW-4		7.0	NM	8.3	☐		4 inch	2.0		2.6	☒	☒	☒	☐	NM	Q/2,5,8,11	MW-4	8:40
MW-5		6.17	NM	8.0	☐		4 inch	2.0		3.6	☒	☒	☒	☐	NM	Q/2,5,8,11	MW-5	8:10
MW-6		6.89	NM	8.4	☐		4 inch	2.0		3.0	☒	☒	☒	☐	NM	Q/2,5,8,11	MW-6	7:50
MW-7		7.84	NM	9.4	☐		4 inch	2.0		3.1	☒	☒	☒	☐	3.32	Q/2,5,8,11	MW-7	7:15
MW-8			NM	10.1	☐		4 inch	2.0	cor. Packed over well		☒	☒	☒	☐	1.59	Q/2,5,8,11	MW-8	
MW-9		6.79	NM	15.9	☐		2 inch	0.5			☐	☐	☐	☐	NM	S/2,8		
MW-10		6.77	NM	11.9	☐		2 inch	0.5		2.5	☒	☒	☒	☐	1.22	Q/2,5,8,11	MW-10	6:50
MW-11		7.22	7.0	11.6	☐		4 inch	2.0			☐	☐	☐	☐	NM	A/2		
MW-12		7.65	7.5	11.1	☐		4 inch	2.0			☐	☐	☐	☐	NM	A/2		
MW-13	1550	6.91	NM	12.7	☐		2 inch	0.5			☐	☐	☐	☐	NM	A/2		
MW-14		8.21	7.5	12.6	☒		2 inch	0.5			☒	☒	☒	☐	NM	Q/2,5,8,11	MW-14	6:15
MW-15		4.85	NM	9.8	☐		2 inch	0.5			☐	☐	☐	☐	0.66	S/2,8		
					☐	Note: Use Separate COC for Samples collected from wells MW-9 and MW-10					☐	☐	☐	☐				
					☐						☐	☐	☐	☐				
					☐						☐	☐	☐	☐				
					☐	Note: Sample well MW-1 for Metals Annually in February (Cd, Cr, Pb, Ni & Zn)					☐	☐	☐	☐				
					☐						☐	☐	☐	☐				

(A)-Casing Water Column: Depth to Bottom - Depth to Water (B)-Multiplier Values: (2" Well: 0.5) (4" Well: 2.0) (6" Well: 4.4)

Sampling Sequence: Annual: MW-11, MW-12, MW-13, MW-2; Semi-Annual: MW-9, MW-15 Quarterly: MW-10, MW-14, MW-7, MW-8, MW-4, MW-6, MW-5, MW-1, MW-3

Sampling Notes: List depth of Sample on C.O.C. (i.e. MW-1(30)) Make Sure to Note on C.O.C. "Provide Lowest Reporting Limit Available." Original Copies of Field Sampling Sheets are Located in Project File
If the water level is below the top of the screen, take a grab sample and check box for NO PURGE (NP). If the water level is above the screen, purge as normal. *Sample MW-1 for Metals Annually in February.



3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670
Direct: (916) 638-2085
Fax: (916) 638-8385

Arco Site Address: 712 Lewelling Blvd.

San Leandro, CA

Arco Project Manager: Paul Supple

Site Sampled By: Doulos

Arco Site Number: 601

Delta Project No.: D000-303

Delta Project PM: Steven W. Meeks

Date Sampled: 4-18-02

Site Contact & Phone Number:

Well ID	Time	Temp °F	pH Units	Sp. Cond.	Gallons	Well ID	Time	Temp °F	pH Units	Sp. Cond.	Gallons	Well ID	Time	Temp °F	pH Units	Sp. Cond.	Gallons
MW-1		N	P			MW-8						MW-15					
MW-2						MW-9											
MW-3						MW-10	6:35	16.6	698	814	0.9						
							6:36	17.4	698	730	1.6						
							6:37	17.8	700	734	2.5						
MW-4	8:30	17.0	696	717	0.8	MW-11											
	8:31	17.0	694	717	1.6												
	8:32	17.1	694	718	2.6												
MW-5	7:55	18.7	727	1104	1	MW-12											
	7:56	18.9	719	1123	2												
	7:57	19.3	715	1219	3.6												
MW-6	7:40	15.9	703	1047	1	MW-13											
	7:41	15.9	703	1049	2												
	7:42	15.9	704	1052	3.0												
MW-7	7:00	13.7	698	767	1	MW-14											
	7:01	13.6	701	961	2												
	7:02	13.6	714	986	3.1												

Notes: NP = NO PURGE

Original Copies of Field Sampling Sheets are Located in Project File

ATTACHMENT E

**EDCC REPORT
AND
EDF, GEOWELL SUBMITTAL CONFIRMATION NUMBER**

Error Summary Log

09/12/02

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Sacramento, CA
Project Name:	ARCO 601, San Leandro, CA
Work Order Number:	S204365
Global ID:	T0600100108
Lab Report Number:	S204365050320021522

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
S20436505032002 MW-1 1522		S20436501	W	CS	E200.7	SW3010A	04/18/02	04/26/02	05/01/02	2040318	1	
S20436505032002 MW-1 1522		S20436501	W	CS	SW8021B	SW5030B	04/18/02	04/30/02	04/30/02	2050003	1	
S20436505032002 MW-1 1522		S20436501	W	CS	SW8270C	SW3510B	04/18/02	04/25/02	04/26/02	2D25011	1	SEQW
S20436505032002 MW-1 1522		S20436501	W	CS	SW8270C	SW3510B	04/18/02	04/25/02	04/29/02	2D25011	2	SEQW
S20436505032002 MW-14 1522		S20436506	W	CS	SW8021B	SW5030B	04/18/02	04/30/02	04/30/02	2050003	1	
S20436505032002 MW-4 1522		S20436502	W	CS	SW8021B	SW5030B	04/18/02	04/30/02	04/30/02	2050003	1	
S20436505032002 MW-5 1522		S20436503	W	CS	SW8021B	SW5030B	04/18/02	04/30/02	04/30/02	2050003	1	
S20436505032002 MW-6 1522		S20436504	W	CS	SW8021B	SW5030B	04/18/02	05/01/02	05/01/02	2050008	1	
S20436505032002 MW-7 1522		S20436505	W	CS	SW8021B	SW5030B	04/18/02	04/30/02	04/30/02	2050003	1	
S20436505032002 TB 1522		S20436507	W	CS	SW8021B	SW5030B	04/18/02	04/30/02	04/30/02	2050003	1	
		S20437710	W	NC	SW8021B	SW5030B	//	04/30/02	04/30/02	2050003	1	
		2040318BS1	WQ	BS1	E200.7	SW3010A	//	04/26/02	05/01/02	2040318	1	
		2040318BLK1	WQ	LB1	E200.7	SW3010A	//	04/26/02	05/01/02	2040318	1	
		2040318MS1	W	MS1	E200.7	SW3010A	//	04/26/02	05/01/02	2040318	1	
		2040318MSD1	W	SD1	E200.7	SW3010A	//	04/26/02	05/01/02	2040318	1	
		2050003BS1	WQ	BS1	SW8021B	SW5030B	//	04/30/02	04/30/02	2050003	1	
		2050003BLK1	WQ	LB1	SW8021B	SW5030B	//	04/30/02	04/30/02	2050003	1	
		2050003MS1	W	MS1	SW8021B	SW5030B	//	04/30/02	04/30/02	2050003	1	
		2050003MSD1	W	SD1	SW8021B	SW5030B	//	04/30/02	04/30/02	2050003	1	
		2050008BSD1	WQ	BD1	SW8021B	SW5030B	//	05/01/02	05/01/02	2050008	1	
		2050008BS1	WQ	BS1	SW8021B	SW5030B	//	05/01/02	05/01/02	2050008	1	
		2050008BLK1	WQ	LB1	SW8021B	SW5030B	//	05/01/02	05/01/02	2050008	1	
		2D25011BSD1	WQ	BD1	SW8270C	SW3510B	//	04/24/02	04/25/02	2D25011	1	SEQW
		2D25011BS1	WQ	BS1	SW8270C	SW3510B	//	04/24/02	04/25/02	2D25011	1	SEQW
		2D25011BS2	WQ	BS2	SW8270C	SW3510B	//	04/25/02	04/26/02	2D25011	1	SEQW
		2D25011BLK1	WQ	LB1	SW8270C	SW3510B	//	04/24/02	04/25/02	2D25011	1	SEQW
		2D25011BLK2	WQ	LB2	SW8270C	SW3510B	//	04/25/02	04/26/02	2D25011	1	SEQW

EDFSAMP: Error Summary Log

09/12/02

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

EDFTEST: Error Summary Log

09/12/02

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

EDFRES: Error Summary Log

09/12/02

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2050003MS1	MS1	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	2050003MS1	MS1	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	2050003MS1	MS1	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	2050003MSD1	SD1	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	2050003MSD1	SD1	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	2050003MSD1	SD1	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20436501	CS	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20436501	CS	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	S20436501	CS	W	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	S20436501	CS	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20436501	CS	W	SW8270C	PR	04/26/02	1	DN46M
Warning: extra parameter	S20436502	CS	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20436502	CS	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	S20436502	CS	W	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	S20436502	CS	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20436503	CS	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20436503	CS	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	S20436503	CS	W	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	S20436503	CS	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20436504	CS	W	SW8021B	PR	05/01/02	1	AAATFBZME
Warning: extra parameter	S20436504	CS	W	SW8021B	PR	05/01/02	1	MTBE
Warning: extra parameter	S20436504	CS	W	SW8021B	PR	05/01/02	1	PHCG
Warning: extra parameter	S20436504	CS	W	SW8021B	PR	05/01/02	1	XYLENES
Warning: extra parameter	S20436505	CS	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20436505	CS	W	SW8021B	PR	04/30/02	1	MTBE

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	S20436505	CS	W	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	S20436505	CS	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20436506	CS	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20436506	CS	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	S20436506	CS	W	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	S20436506	CS	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20436507	CS	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20436507	CS	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	S20436507	CS	W	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	S20436507	CS	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	S20437710	NC	W	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	S20437710	NC	W	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	S20437710	NC	W	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	2050003BLK1	LB1	WQ	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	2050003BLK1	LB1	WQ	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	2050003BLK1	LB1	WQ	SW8021B	PR	04/30/02	1	PHCG
Warning: extra parameter	2050003BLK1	LB1	WQ	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	2050003BS1	BS1	WQ	SW8021B	PR	04/30/02	1	AAATFBZME
Warning: extra parameter	2050003BS1	BS1	WQ	SW8021B	PR	04/30/02	1	MTBE
Warning: extra parameter	2050003BS1	BS1	WQ	SW8021B	PR	04/30/02	1	XYLENES
Warning: extra parameter	2050008BLK1	LB1	WQ	SW8021B	PR	05/01/02	1	AAATFBZME
Warning: extra parameter	2050008BLK1	LB1	WQ	SW8021B	PR	05/01/02	1	MTBE
Warning: extra parameter	2050008BLK1	LB1	WQ	SW8021B	PR	05/01/02	1	PHCG
Warning: extra parameter	2050008BLK1	LB1	WQ	SW8021B	PR	05/01/02	1	XYLENES
Warning: extra parameter	2050008BS1	BS1	WQ	SW8021B	PR	05/01/02	1	AAATFBZME
Warning: extra parameter	2050008BS1	BS1	WQ	SW8021B	PR	05/01/02	1	MTBE
Warning: extra parameter	2050008BS1	BS1	WQ	SW8021B	PR	05/01/02	1	XYLENES
Warning: extra parameter	2050008BSD1	BD1	WQ	SW8021B	PR	05/01/02	1	AAATFBZME
Warning: extra parameter	2050008BSD1	BD1	WQ	SW8021B	PR	05/01/02	1	MTBE

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2050008BSD1	BD1	WQ	SW8021B	PR	05/01/02	1	XYLENES
Warning: extra parameter	2D25011BLK1	LB1	WQ	SW8270C	PR	04/25/02	1	DN46M
Warning: extra parameter	2D25011BLK2	LB2	WQ	SW8270C	PR	04/26/02	1	DN46M

EDFQC: Error Summary Log

09/12/02

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

EDFCL: Error Summary Log

09/12/02

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

Error Summary Log

09/12/02

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Sacramento, CA
Project Name:	ARCO 601, San Leandro, CA
Work Order Number:	S204355
Global ID:	T0600100108
Lab Report Number:	S204355043020021735

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdat	Anadate	Lablotctl	Run Sub
S20435504302002 MW-10 1735		S20435501	W	CS	SW8021B	SW5030B	04/18/02	04/26/02	04/26/02	2040344	1
		S20435405	W	NC	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1
		2040344BS1	WQ	BS1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1
		2040344BLK1	WQ	LB1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1
		2040344MS1	W	MS1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1
		2040344MSD1	W	SD1	SW8021B	SW5030B	//	04/26/02	04/26/02	2040344	1

EDFSAMP: Error Summary Log

09/12/02

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

EDFTEST: Error Summary Log

09/12/02

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

EDFRES: Error Summary Log

09/12/02

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	2040344MS1	MS1	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344MS1	MS1	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344MS1	MS1	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	2040344MSD1	SD1	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344MSD1	SD1	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344MSD1	SD1	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435405	NC	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435405	NC	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435405	NC	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	S20435501	CS	W	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	S20435501	CS	W	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	S20435501	CS	W	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	S20435501	CS	W	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	PHCG
Warning: extra parameter	2040344BLK1	LB1	WQ	SW8021B	PR	04/26/02	1	XYLENES
Warning: extra parameter	2040344BS1	BS1	WQ	SW8021B	PR	04/26/02	1	AAATFBZME
Warning: extra parameter	2040344BS1	BS1	WQ	SW8021B	PR	04/26/02	1	MTBE
Warning: extra parameter	2040344BS1	BS1	WQ	SW8021B	PR	04/26/02	1	XYLENES

EDFCL: Error Summary Log

09/12/02

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

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UPLOADING A GEO_WELL FILE

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

Submittal Title: geowell report for site 0601

Submittal Date/Time: 10/24/2002 12:24:46 PM

Confirmation Number: 7538303971

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Confirmation Number: 1860550284

Date/Time of Submittal: 10/24/2002 10:27:24 AM

Facility Global ID: T0600100108

Facility Name: ARCO

Submittal Title: EDCC report for site 0601

Submittal Type: GW Monitoring Report

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