Quarterly Groundwater Monitoring Report
First Quarter 2002

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Prepared for

Mr. Paul Supple
ARCO Products Company

May 14, 2002

Prepared by

Shaw Environmental and Infrastructure, Inc.
1921 Ringwood Avenue
San Jose, California 95131-1721

Project 821803 (330-006)

Shaw Garakani
Project Manager

Andrew Lehane
Senior Engineer
RCE 55798

Date: May 14, 2002
Quarter: 1Q02

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0608	Address: 17601 Hesperian Boulevard at Hacienda Avenue San Lorenzo, California
ARCO Environmental Engineer:	Paul Supple
Consulting Co./Contact Person:	Shaw Environmental and Infrastructure, Inc.(Shaw) (formerly IT Corporation) / Shaw Garakani
Consultant Project No.:	821803 (330-006)
Primary Agency/Regulatory ID No.:	Alameda County Health Care Services Agency
Monitoring Events Performed to Date:	52

WORK PERFORMED THIS QUARTER (First – 2002):

1. Submitted fourth quarter 2001 groundwater monitoring report.
2. Shaw performed first quarter 2002 groundwater monitoring event on March 13, 2002.
3. Prepared first quarter 2002 groundwater monitoring and remedial system performance evaluation report.
4. Continued monthly payments to homeowners for not using domestic irrigation wells.
5. Continued homeowner quarterly monitoring results notification program.
6. Continued operation and maintenance of the groundwater extraction and treatment (GWET) system.
7. Submitted monthly flow data to Oro Loma Sanitary District.
8. Renewal of Special Discharge Permit SDP-037 from Oro Loma Sanitary District.

WORK PROPOSED FOR NEXT QUARTER (Second– 2002):

1. Prepare and submit first quarter 2002 groundwater monitoring and remedial system performance evaluation report.
2. Shaw will perform second quarter 2002 groundwater monitoring event.
3. Continue operation, maintenance and performance monitoring of GWET system.
4. Continue monthly payments to homeowners for not using domestic irrigation wells.
5. Destruction of domestic irrigation well located at 17497 Via Magdalena San Lorenzo, CA
6. Continue homeowner quarterly monitoring results notification program.
7. Submit monthly flow data to Oro Loma Sanitary District.

Current Phase of Project:	Remediation/Monitoring	(Assmnt, Remed., etc.)
Frequency of Groundwater Sampling:	Quarterly-Annually	(Quarterly, etc.)
Frequency of Groundwater Monitoring:	Quarterly	(Monthly, etc.)
Is Free Product (FP) Present On-Site:	No	(Yes/No)
FP Recovered this Quarter:	None	(gallons)
Cumulative FP Recovered to Date:	None	(gallons)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Bulk Soil Removed to Date:	200	(cubic yards)
Current Remediation Techniques:	GWET	(SVE/Sparge/FP Removal, etc.)
Approximate Depth to Groundwater:	8.56 to 11.96	(Measure Feet)
Groundwater Gradient:	West/0.003	(Direction/Magnitude)
Period TPPH-g/Benzene/MtBE Removed:	0.01/ 0.000/ 0.03	(gallons)
Cumulative TPPH-g/Benzene/MtBE Removed:	1.06/ 0.04/ 0.27	(gallons)

DISCUSSION:

- Please refer to Pacific Environmental Group, Inc.'s *Quarterly Groundwater Monitoring Report – Fourth Quarter 1996* for additional historical groundwater elevation and analytical data.
- Based on elevated concentrations of methyl tert-butyl ether (MtBE), the GWET system was reactivated on June 5, 2000. Performance evaluation of the GWET system is presented as Attachment C.
- MtBE concentration at onsite wells EA-1 and MW-5 and offsite well MW-8 has risen this quarter and will be closely monitored during future quarters.
- Effective June 1, 2002, at the request of ARCO, the management of this project has been transferred to URS Corporation. Please address your inquiries to the URS project manager identified in the cc: list below.

ATTACHMENTS:

- Table 1 - Groundwater Sampling Schedule
- Table 2 - Groundwater Elevation and Analytical Data – Groundwater Monitoring Wells
- Table 3 - Groundwater Analytical Data – Domestic Irrigation Wells
- Figure 1 – Site Map
- Figure 2 – Groundwater Elevation Contour Map – First Quarter 2002
- Figure 3 – TPPH-g/Benzene/MtBE Concentration Map – First Quarter 2002
- Attachment A – Field and Laboratory Procedures
- Attachment B – Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets
- Attachment C – Remedial System Performance Evaluation
- Attachment D – Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets for the Groundwater Extraction and Treatment System

cc: Mr. Amir K. Gholami, REHS, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, CA 94502
Mr. Ron Sykora/Mr. Robert L. Webster, David D. Bohannon Organization, 60 Hillsdale Mall, San Mateo, CA 94403
Mr. Chuck Headlee, Regional Water Quality Control Board - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Mr. Scott E. Robinson, URS Corporation, 500 12th Street, Suite 200, Oakland, CA 94607, (510) 893-3600

Table 1
Groundwater Sampling Schedule

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
MW-5	a	a	a	a	Quarterly
MW-7	----------Removed from Program----------				
MW-8	a	a	a	a	Quarterly
MW-9	a	a	a	a	Quarterly
MW-10	a	a	a	a	Quarterly
MW-11	a	a	a	a	Quarterly
E-1A	a	a	a	a	Quarterly
MW-13	----------Removed from Program----------				
MW-14	a				Annually
MW-15	a	a	a	a	Quarterly
MW-16	a	a	a	a	Quarterly
MW-17	----------Destroyed----------				
MW-18	a				Annually
MW-19	----------Removed from Program----------				
MW-20	----------Destroyed----------				
MW-21	a				Annually
MW-22	a	a	a	a	Quarterly
MW-23	a				Annually
MW-24	----------Removed from Program----------				
MW-25	a	a	a	a	Quarterly
MW-26	a				Annually
Domestic Irrigation Wells					
590H	----------Destroyed----------				
633H	----------Destroyed----------				
634H	a	a	a	a	Quarterly
642H	a	a	a	a	Quarterly
675H	a	a	a	a	Quarterly
17197 VM	a	a	a	a	Quarterly

Table 1
Groundwater Sampling Schedule

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Sampling Frequency
Domestic Irrigation Wells (cont.)					
17200 VM	----------Destroyed----------				
17203 VM	a	a	a	a	Quarterly
17302 VM	a	a	a	a	Quarterly
17348 VE	a	a	a	a	Quarterly
17349 VM	a	a	a	a	Quarterly
17371 VM	a	a	a	a	Quarterly
17372 VM	a	a	a	a	Quarterly
17393 VM	----------Destroyed----------				

a. Samples analyzed for TPPH-g, BTEX compounds, and MtBE according to EPA Methods 8015 (modified) and 8020.

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number		Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-5	††	03/13,14/96		33.99	9.75	24.24	1,600	30	<10	13	<10	NA	NM
		05/28,29/96			11.48	22.51	240	2.4	<0.50	<0.50	<0.50	NA	NM
		08/28/96			12.58	21.41	250	210	8.0	<1.0	<1.0	210	NM
		11/25,26/96			12.07	21.92	<500	<5.0	<5.0	<5.0	<5.0	280	NM
		03/31/97	†		12.42	21.57	<50	<0.50	<0.50	<0.50	<0.50	41	NM
		06/25/97			12.64	21.35	NS	NS	NS	NS	NS	NS	NM
		09/09,10/97			12.75	21.24	<50	<0.50	<0.50	<0.50	<0.50	19	NM
		11/24,25/97			12.60	21.39	<50	0.9	<0.50	<0.50	<0.50	23	1.4
		03/19,20/98			10.43	23.56	61	1.0	0.56	0.55	<0.50	75	1.2
		06/04/98			11.24	22.75	150	<0.30	<0.30	0.32	0.74	20	1.4
		09/21,22/98			12.45	21.54	110	0.59	<0.50	<0.50	<0.50	25	1.8
		12/14,15/98			11.85	22.14	<200	<2.0	<2.0	<2.0	<2.0	600	1.2
		03/15,16/99			11.05	22.94	50.9	<0.50	<0.50	<0.50	<0.50	211	1.0
		06/14,15/99			12.25	21.74	211	<0.50	<0.50	<0.50	<0.50	212	1.2
		09/15,16/99			12.70	21.29	139	<0.50	<0.50	<0.50	<0.50	184	2.4
		12/08,09/99			12.56	21.43	87.4	<0.50	<0.50	<0.50	<0.50	197	1.2
		03/15/00			10.10	23.89	82.4	<0.50	0.710	<0.50	0.579	906	1.2
		03/15/00	a		–	–	–	–	–	–	–	1,230	–
		06/13/00	b		12.44	21.55	96.7	<0.50	<0.50	<0.50	<0.50	551	2.0
		9/19,20/00			12.45	21.54	<50.0	<0.50	<0.50	<0.50	<0.50	51	2.2
		12/14,15/00			12.03	21.96	152.0	1.33	0.56	<0.50	<0.50	<2.50	1.0
		3/8,9/01			10.81	23.18	<50.0	<0.50	<0.50	<0.50	<0.50	73.8	1.6
		06/14/01			12.25	21.74	<50.0	<0.50	<0.50	<0.50	<0.50	47.0	1.8
		09/26/01			12.83	21.16	<50.0	<0.50	<0.50	<0.50	<0.50	270.0	2.0
		12/29/01			10.97	23.02	<50.0	<0.50	<0.50	<0.50	0.95	370.0	2.4
		03/13/02			11.46	22.53	530	<2.5	<2.5	<2.5	<2.5	1100	3.00
MW-7		03/13,15/96		34.40	9.73	24.67	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28,29/96			11.60	22.80	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28,29/96			12.63	21.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25,26/96			12.10	22.30	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			11.72	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			12.98	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			12.25	22.15	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		11/24,25/97			12.57	21.83	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
		03/19,20/98			10.35	24.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
		06/04/98			11.30	23.10	<50	<0.30	<0.30	<0.30	<0.60	<10	0.7
		09/21,22/98			12.48	21.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
		12/14,15/98			11.90	22.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2
		03/15,16/99			11.10	23.30	<50	<0.50	<0.50	<0.50	<0.50	<	0.0
		06/14,15/99			Removed From Gauging and Sampling Program								
MW-8		03/13,14/96		32.79	8.90	23.89	670	5.1	<2.0	<2.0	<2.0	NA	NM
		05/28,29/96			10.58	22.21	490	<1.0	<1.0	0.91	0.91	NA	NM
		08/28/96			11.30	21.49	680	29	2.1	3.0	2.4	80	NM
		11/25/96			10.80	21.99	620	1.2	2.6	2.9	2.0	46	NM
		03/31-04/01/97			10.76	22.03	530	<1.0	1.7	2.0	3.8	380	NM
		06/25/97			11.65	21.14	480	6.7	0.69	0.8	0.71	88	NM
		09/09,10/97			11.67	21.12	570	57	<1.0	2.1	1.7	57	2.0
		09/09,10/97	a		–	–	–	–	–	–	–	48	–
		11/24,25/97			11.50	21.29	530	3.0	1.7	1.9	1.5	26	2.0
		03/19,20/98			9.40	23.39	440	1.4	<0.50	<0.50	3.7	140	2.2
		06/03/98			10.25	22.54	360	2.2	1.2	1.8	1.0	47	0.3
		09/21,22/98			11.37	21.42	380	<2.5	<2.5	<2.5	<2.5	620	0.0
		12/14,15/98			10.80	21.99	<50	<0.50	<0.50	<0.50	<0.50	1,600	0.0
		03/15,16/99			10.00	22.79	<500	<5.0	<5.0	<5.0	<5.0	625	0.0
		06/14,15/99			11.17	21.62	166	<0.50	<0.50	<0.50	<0.50	141	NM
		09/15,16/99			11.65	21.14	<500	<5.0	<5.0	<5.0	<5.0	2,380	2.4
		12/08,09/99			11.48	21.31	213	<0.50	<0.50	<0.50	<0.50	4,160	2.8
		03/15/00			9.38	23.41	133	<0.50	3.44	<0.50	0.548	1,350	2.2
		03/15/00	a		–	–	–	–	–	–	–	1,980	–
		06/13/00	b		11.93	20.86	227	<0.50	<0.50	<0.50	<0.50	657	1.0
		9/19,20/2000			11.46	21.33	191	1.7	3.2	<0.50	1.2	160	1.0
		12/14,15/00			10.97	21.82	243	<0.50	<0.50	<0.50	<0.50	243	2.0
		3/8,9/01			9.80	22.99	144	<0.50	<0.50	<0.50	<0.50	188	3.0
		06/14/01			11.22	21.57	150	3.2	0.75	<0.50	1.0	230	3.4
		09/26/01			10.80	21.99	140	<0.50	0.58	<0.50	1.9	170	0.6
		12/29/01			9.85	22.94	<50.0	<0.50	<0.50	<0.50	<0.50	560	4.2
		03/13/02			10.30	22.49	500	<2.5	<2.5	<2.5	<2.5	1,100	2.0

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17501 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number		Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-9		03/13,15/96		32.11	7.65	24.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			9.67	22.44	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28,29/96			10.78	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			10.24	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			9.95	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			10.85	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			10.87	21.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		11/24,25/97			10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
		03/19,20/98			8.63	23.48	<50	<0.50	<0.50	<0.50	<0.50	58	4.8
		06/04/98			9.35	22.76	<50	<0.30	<0.30	<0.30	<0.60	<10	2.0
		09/21,22/98			10.55	21.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		12/14,15/98			9.98	22.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
		03/15,16/99			9.10	23.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.0
		06/14,15/99			10.32	21.79	<50	<0.50	<0.50	<0.50	<0.50	3.27	2.2
		09/15,16/99			10.83	21.28	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.2
		12/08,09/99			10.70	21.41	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6
		03/15/00			8.58	23.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		06/13/00	b		10.48	21.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		9/19,20/00			10.53	21.58	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		12/14,15/00			10.35	21.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		3/8,9/01			9.05	23.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
		06/14/01			10.33	21.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
		09/26/01			10.82	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		12/29/01			8.82	23.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		03/13/02			9.49	22.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
MW-10	††	03/13,14/96		31.67	7.78	23.89	870	35	<5.0	5.2	7.0	NA	NM
		05/29/96			10.00	21.67	800	<1.0	<1.0	<1.0	<1.0	NA	NM
		08/28/96			10.93	20.74	NS	NS	NS	NS	NS	NS	NM
		11/25,26/96			10.45	21.22	1,100	6.0	4.9	3.8	9.5	200	NM
		03/31/97	†		10.15	21.52	160	<0.50	<0.50	<0.50	<0.50	140	NM
		06/25/97			10.99	20.68	800	4.2	1.4	1.5	1.4	170	NM
		09/09,10/97			11.08	20.59	950	<1.2	3.3	2.5	3.7	240	2.0
		09/09,10/97	a		--	--	--	--	--	--	--	210	--
		11/24,25/97			10.85	20.82	920	5.7	6.7	<5.0	<5.0	160	2.4
		11/24,25/97			--	--	--	--	--	--	--	160	--
		03/19/98			8.78	22.89	330	1.7	<0.50	<0.50	<0.50	130	1.0
		06/04/98			9.59	22.08	680	<0.30	4.8	2.3	8.6	79	0.0
		09/21,22/98			10.77	20.90	650	<0.50	<0.50	3.5	1.3	99	0.0
		12/14/98			10.18	21.49	828	<1.0	<1.0	3.39	<1.0	152	0.4
		03/15,16/99			9.30	22.37	910	17.6	1.3	5.24	<1.0	268	0.0
		06/14,15/99			10.57	21.10	643	<0.50	0.761	1.13	1.35	232	NM
		09/15,16/99			11.03	20.64	655	<1.25	1.26	<1.25	<1.25	315	5.8
		12/08,09/99			10.88	20.79	898	5.7	1.29	<1.0	<1.0	236	5.6
		03/15/00			8.68	22.99	459	<1.0	<1.0	<1.0	<1.0	266	2.2
		03/15/00	a		--	--	--	--	--	--	--	342	--
		06/13/00	b		10.85	20.82	617	6.82	2.77	3.07	1.92	437	1.0
		9/19,20/00			10.70	20.97	527	<0.50	0.86	0.99	1.19	413	2.2
		12/14,15/00			10.35	21.32	456	10.50	1.01	0.60	<0.50	145	4.0
		3/8,9/01			9.12	22.55	509	<0.50	21.90	3.16	3.55	151	3.2
		06/14/01			10.55	21.12	710	9.20	2.60	<0.50	1.50	290	3.0
		09/26/01			10.98	20.69	580	<0.50	1.60	1.50	1.60	250	2.6
		12/29/01			9.06	22.61	410	<0.50	6.70	2.50	2.90	950	3.2
		03/13/02			9.68	21.99	680	<5.0	<5.0	<5.0	<5.0	570	3.2
MW-11		03/13,14/96		32.54	8.60	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			10.55	21.99	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96			11.52	21.02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			10.88	21.66	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			11.65	20.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			11.75	20.79	80	<0.50	<0.50	<0.50	0.65	<2.5	2.0
		11/24,25/97			11.50	21.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	2.4
		03/19/98			9.43	23.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		06/03/98			10.27	22.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8
		09/21,22/98			11.43	21.11	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
		12/14/98			10.85	21.69	<50	<0.50	<0.50	<0.50	<0.50	<2.0	1.4
		03/15,16/99			10.05	22.49	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17501 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number		Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-11		06/14,15/99			11.25	21.29	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
(cont.)		09/15/99			11.68	20.86	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.4
		12/08,09/99			11.53	21.01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
		03/15/00			9.32	23.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7
		06/13/00	b		11.05	21.49	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
		9/19,20/00			11.37	21.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		3/8,9/01			11.00	21.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
		3/8,9/01			9.78	22.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
		06/14/01			11.23	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4
		09/26/01			11.70	20.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
		12/29/01			9.91	22.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
		03/13/02			10.38	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
E-1A	††	03/13,14/96		33.06	10.35	22.71	2,700	38	<5.0	130	6.2	NA	NM
(MW-12)		05/28,29/96			11.50	21.56	1,400	410	18	55	5.5	NA	NM
		08/28/96			11.70	21.36	NS	NS	NS	NS	NS	NS	NM
		11/25,26/96			11.18	21.88	4,300	13	<5.0	100	20	220	NM
		03/31/97	†		12.65	20.41	1,900	7.9	<2.0	62	3.5	140	NM
		06/25/97			11.82	21.24	4,900	21	<5.0	53	6.8	160	NM
		09/09,10/97			11.85	21.21	3,200	9.0	<5.0	45	<5.0	85	2.0
		09/09,10/97	a		--	--	--	--	--	--	--	70	--
		11/24,25/97			11.75	21.31	2,000	10	<2.5	42	2.8	65	1.0
		03/19,20/98			9.65	23.41	11,000	1,300	<0.50	550	380	220	6.2
		06/04/98	b		10.47	22.59	4,500	3.3	0.92	41	4.0	51	1.5
		09/21,22/98			11.60	21.46	3,300	1.7	<0.50	29	3.6	52	1.8
		12/14,15/98			11.10	21.96	3,100	21	6.7	28	<5.0	140	1.0
		03/15,16/99			10.25	22.81	3,900	24.5	<20	41.2	<20	296	1.0
		06/14,15/99			11.47	21.59	5,090	<5.0	<5.0	6.01	<5.0	234	1.4
		09/15,16/99			11.90	21.16	2,200	7.93	<5.0	10.50	<5.0	142	3.2
		12/08,09/99			11.75	21.31	1,490	6.57	1.36	9.21	<1.25	364	NM
		03/15/00			9.52	23.54	4,430	26.1	<10.0	15.3	<10.0	786	1.8
		03/15/00	a		--	--	--	--	--	--	--	908	--
		06/13/00	b		22.31	10.75	262	9.52	0.584	0.535	<0.5	534	3.4
		9/19,20/00			23.15	9.91	143	1.01	<0.50	<0.50	<0.50	76	2.8
		12/14,15/00			NA	NA	181	<0.50	<0.50	0.789	<0.50	100	1.4
		3/8,9/01			23.80	9.26	370	1.78	<0.50	0.765	<0.50	76	1.6
		06/14/01			21.10	11.96	180	<0.50	<0.50	0.54	<0.50	100	2.6
		09/26/01			19.95	13.11	<50.0	<0.50	<0.50	<0.50	<0.50	210	1.8
		12/29/01			22.40	10.66	<50.0	<0.50	<0.50	<0.50	<0.50	190	2.0
		03/13/02			21.75	11.31	200	<0.50	<0.50	<0.50	<0.50	310	3.4
MW-13		03/13,15/96		35.42	10.90	24.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28,29/96			12.90	22.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96			13.89	21.53	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			13.41	22.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			13.11	22.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			13.98	21.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			14.09	21.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		11/24,25/97			13.90	21.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		03/19,20/98			11.80	23.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
		06/04/98			12.63	22.79	<50	<0.30	<0.30	<0.30	<0.60	<10	1.3
		09/21,22/98			13.77	21.65	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		12/14,15/98			13.28	22.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
		03/15,16/99	b		12.48	22.94	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
		06/14,15/99			Removed From Gauging and Sampling Program								
MW-14		03/13,15/96		30.46	6.63	23.83	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96			8.83	21.63	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96			9.83	20.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96			9.33	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		03/31-04/01/97			9.04	21.42	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		06/25/97			9.94	20.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/09,10/97			10.08	20.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
		11/24,25/97			9.78	20.68	<50	<0.50	<0.50	<0.50	<0.50	2.9	2.6
		03/19/98			7.92	22.54	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
		06/03/98			8.52	21.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1
		09/21,22/98			9.72	20.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.8
		12/14/98			9.15	21.31	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.8
		03/15,16/99			8.20	22.26	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-14 (cont.)	06/14,15/99			9.54	20.92	Well Sampled Annually						
	09/15/99			9.98	20.48	Well Sampled Annually						
	12/08,09/99			9.84	20.62	Well Sampled Annually						
	03/15/00			7.78	22.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	06/13/00	b		9.45	21.01	Well Sampled Annually						
	9/19,20/00			9.68	20.78	Well Sampled Annually						
	12/14,15/00			9.14	21.32	Well Sampled Annually						
	3/8,9/01			8.10	22.36	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	06/14/01			9.51	20.95	Well Sampled Annually						
	09/26/01			9.96	20.50	Well Sampled Annually						
	12/29/01			7.62	22.84	Well Sampled Annually						
	03/13/02			8.56	21.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
MW-15	03/13,15/96		31.41	8.13	23.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96			10.30	21.11	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			11.30	20.11	<50	<0.50	<0.50	<0.50	<0.50	5.3	NM
	11/25/96			10.83	20.58	<50	<0.50	<0.50	<0.50	<0.50	12	NM
	03/31-04/01/97			10.45	20.96	<50	<0.50	<0.50	<0.50	<0.50	7.2	NM
	06/25/97			11.39	20.02	<50	<0.50	<0.50	<0.50	<0.50	7.0	NM
	09/09,10/97			11.50	19.91	Well Inaccessible						
	11/24,25/97					Well Inaccessible						
	03/19/98			9.15	22.26	<50	<0.50	<0.50	<0.50	<0.50	5.3	2.2
	06/04/98			NM		Well Inaccessible						
	09/21,22/98			NM		Well Inaccessible						
	12/14/98			10.63	20.78	<50	<0.50	<0.50	<0.50	<0.50	48.2	1.8
	03/15,16/99			NM		Well Inaccessible						
	06/14,15/99			NM		Well Inaccessible						
	09/15, 16/99			NM		Well Inaccessible						
	12/08,09/99			11.28	20.13	<50	<0.5	<0.5	<0.5	<0.5	167.0	NM
	03/15/00			9.03	22.38	<50	<0.5	<0.5	<0.5	<0.5	82.1	1.5
	03/15/00	a		--	--	--	--	--	--	--	105	--
	06/13/00	b		10.96	20.45	<50	<0.5	0.703	<0.5	0.870	69.8	2.0
	9/19,20/00			11.10	20.31	<50	<0.5	<0.5	<0.5	<0.5	156.0	2.2
	12/14,15/00			NM	NA	Well Inaccessible						
	3/8,9/01			9.48	21.93	<50	<0.5	<0.5	<0.5	<0.5	63.8	2.6
	06/14/01			10.95	20.46	<50	<0.5	<0.5	<0.5	<0.5	26.0	3.0
	09/26/01			11.38	20.03	<50	<0.5	<0.5	<0.5	<0.5	17.0	1.2
	12/29/01			9.41	22.00	<50	<0.5	<0.5	<0.5	<0.5	30.0	2.2
	03/13/02			10.03	21.38	<50	<0.5	<0.5	<0.5	<0.5	21.0	1.2
MW-16	03/13/96		31.39	8.62	22.77	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			10.90	20.49	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			11.84	19.55	<50	<0.50	<0.50	<0.50	<0.50	89	NM
	11/25/96			11.32	20.07	<50	<0.50	<0.50	<0.50	<0.50	66	NM
	03/31-04/01/97			11.06	20.33	<50	<0.50	<0.50	<0.50	<0.50	49	NM
	06/25/97			11.92	19.47	<50	<0.50	<0.50	<0.50	<0.50	59	NM
	09/09,10/97			12.03	19.36	<50	<0.50	<0.50	<0.50	<0.50	63	3.0
	09/09,10/97	a		--	--	--	--	--	--	--	86	--
	11/24,25/97			11.78	19.63	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	03/19/98			9.80	21.59	<50	<0.50	<0.50	<0.50	<0.50	8.4	3.0
	06/03/98			10.55	20.84	<50	<0.50	<0.50	<0.50	<0.50	22	1.5
	09/21,22/98			11.77	19.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.2
	12/14/98			11.20	20.19	<50	<0.50	<0.50	<0.50	<0.50	25	1.0
	03/15,16/99			10.30	21.09	<50	<0.50	<0.50	<0.50	<0.50	<5.0	3.6
	06/14,15/99			11.55	19.84	<50	<0.50	<0.50	<0.50	<0.50	3.13	3.4
	09/15/99			11.99	19.40	<50	<0.50	<0.50	<0.50	<0.50	8.70	3.8
	12/08,09/99			11.80	19.59	<50	<0.50	<0.50	<0.50	<0.50	10.1	2.4
	03/15/00			9.55	21.84	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/13/00	b		11.64	19.75	<50	<0.50	0.517	<0.50	0.603	6.29	1.0
	9/19,20/00			11.64	19.75	<50	<0.50	<0.50	<0.50	<0.50	5.01	2.0
	12/14,15/00			11.25	20.14	<50	<0.50	<0.50	<0.50	<0.50	6.14	2.0
	3/8,9/01			10.01	21.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	06/14/01			11.47	19.92	<50	<0.50	<0.50	<0.50	<0.50	2.5	2.6
	09/26/01			11.93	19.46	<50	<0.50	<0.50	<0.50	<0.50	3.8	1.8
	12/29/01			9.71	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/13/02			10.51	20.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
MW-17	Well Destroyed											
MW-18	03/13/96		29.70	7.53	22.17	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			9.88	19.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			10.82	18.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM

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San Lorenzo, California

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-18	03/31-04/01/97			10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
(cont.)	06/25/97			10.94	18.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			11.00	18.70	<50	<0.50	<0.50	<0.50	<0.50	<2.5	4.0
	11/24,25/97			10.65	19.05	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.4
	03/19/98			8.95	20.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98			9.57	20.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8
	09/21,22/98			10.80	18.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	12/14/98			10.18	19.52	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.6
	03/15,16/99			9.20	20.50	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99			10.60	19.10	Well Sampled Annually						
	09/15/99			10.96	18.74	Well Sampled Annually						
	12/08,09/99			10.79	18.91	Well Sampled Annually						
	03/15/00			8.80	20.90	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/13/00	b		10.60	19.10	Well Sampled Annually						
	9/19,20/00			10.63	19.07	Well Sampled Annually						
	12/14,15/00			10.39	19.31	Well Sampled Annually						
	3/8,9/01			9.03	20.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	06/14/01			10.40	19.30	Well Sampled Annually						
	09/26/01			10.91	18.79	Well Sampled Annually						
	12/29/01			8.24	21.46	Well Sampled Annually						
	03/13/02			9.46	20.24	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
MW-19	03/13/96		29.02	7.05	21.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			9.42	19.60	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			10.33	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			9.67	19.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			9.65	19.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			10.41	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			10.47	18.55	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24,25/97			10.35	18.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19/98			8.67	20.35	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/03/98			9.15	19.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2
	09/21,22/98			10.28	18.74	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	12/14/98			9.70	19.32	<50	<0.50	<0.50	0.588	0.647	<2.0	2.4
	03/15,16/99			Well Inaccessible								
	06/14,15/99			Removed From Gauging and Sampling Program								
MW-20				Well Destroyed								
MW-21	03/13/96		28.72	7.58	21.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96			9.85	18.87	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			10.00	18.72	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			10.03	18.69	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			10.83	17.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			10.90	17.82	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24,25/97			10.50	18.22	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98			9.08	19.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.08
	06/03/98			9.57	19.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6
	09/21,22/98			10.75	17.97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14/98			10.11	18.61	<50	<0.50	<0.50	<0.50	<0.50	<2.0	0.6
	03/15,16/99			9.10	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99			10.58	18.14	Well Sampled Annually						
	09/15/99			10.93	17.79	Well Sampled Annually						
	12/08,09/99			10.70	18.02	Well Sampled Annually						
	03/15/00			8.95	19.77	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.3
	06/13/00	b		10.97	17.75	Well Sampled Annually						
	9/19,20/00			10.66	18.06	Well Sampled Annually						
	12/14,15/00			10.30	18.42	Well Sampled Annually						
	3/8,9/01			9.00	19.72	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	06/14/01			10.40	18.32	Well Sampled Annually						
	09/26/01			10.75	17.97	Well Sampled Annually						
	12/29/01			7.86	20.86	Well Sampled Annually						
	03/13/02			9.40	19.32	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.2
MW-22	03/13/96		29.29	7.83	21.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			10.33	18.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			11.28	18.01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			10.61	18.68	<50	<0.50	<0.50	<0.50	<0.50	3.0	NM
	12/30/96			10.61	18.68	NA	NA	NA	NA	NA	3.3	NM
	03/31-04/01/97			10.56	18.73	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			11.51	17.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			11.45	17.84	<50	<0.50	<0.50	<0.50	<0.50	3.4	1.0
	11/24,25/97			11.08	18.21	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.6
	03/19/98			9.40	19.89	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	06/03/98			10.00	19.29	<50	<0.50	<0.50	<0.50	<0.50	0.87	3.2
	09/21,22/98			11.27	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.1	2.8
	12/14/98			10.65	18.64	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15,16/99			9.67	19.62	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	06/14,15/99			11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	5.05	1.0
	09/15/99	a		11.46	17.83	<50	<0.50	<0.50	<0.50	<0.50	49.2	1.2
	12/08,09/99			11.25	18.04	<50	<0.50	<0.50	<0.50	<0.50	17.9	1.4

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled		Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-22	03/15/00			9.20	20.09	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.1
(cont.)	06/13/00	b		11.06	18.23	<50	<0.50	<0.50	<0.50	<0.50	6.85	1.0
	9/19,20/00			11.12	18.17	<50	<0.50	<0.50	<0.50	<0.50	3.18	1.8
	12/14,15/00			10.85	18.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	3/8,9/01			9.43	19.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	06/14/01			10.98	18.31	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	09/26/01			11.41	17.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	12/29/01			8.78	20.51	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/13/02			9.86	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
MW-23	03/13/96		30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			11.37	19.62	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			12.31	18.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			11.76	19.23	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			11.56	19.43	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			12.39	18.60	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			12.53	18.46	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.0
	11/24,25/97			12.13	18.86	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98			10.22	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4
	06/03/98			11.03	19.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3
	09/21,22/98			12.31	18.68	<50	<0.50	0.54	1.9	<0.50	<2.5	2.2
	12/14/98			11.67	19.32	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.0
	03/15,16/99			10.82	20.17	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.6
	06/14,15/99			12.08	18.91	Well Sampled Annually						
	09/15/99			12.48	18.51	Well Sampled Annually						
	12/08,09/99			12.29	18.70	Well Sampled Annually						
	03/15/00			10.04	20.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	06/13/00	b		11.95	19.04	Well Sampled Annually						
	9/19,20/00			12.15	18.84	Well Sampled Annually						
	12/14,15/00			12.25	18.74	Well Sampled Annually						
	3/8,9/01			10.49	20.50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01			11.97	19.02	Well Sampled Annually						
	09/26/01			12.40	18.59	Well Sampled Annually						
	12/29/01			10.42	20.57	Well Sampled Annually						
	03/13/02			11.01	19.98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.0
MW-24	03/13,15/96		34.38	10.10	24.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			12.25	22.13	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96			13.28	21.10	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			12.71	21.67	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			12.50	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			13.38	21.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09,10/97			13.46	20.92	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
	11/24,25/97			13.25	21.13	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19,20/98			11.32	23.06	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	06/04/98			12.00	22.38	<50	<0.30	<0.30	<0.30	<0.60	<10	0.8
	09/21,22/98			13.13	21.25	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.4
	12/14,15/98			12.53	21.85	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.2
	03/15,16/99			11.58	22.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0	0.0
	06/14,15/99			Removed From Gauging and Sampling Program								
MW-25	03/13,14/96		34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28,29/96			11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96			12.32	21.80	<50	<0.50	<0.50	<0.50	<0.50	51	NM
	11/25/96			11.83	22.29	<50	<0.50	<0.50	<0.50	<0.50	110	NM
	03/31-04/01/97			11.55	22.57	<50	<0.50	<0.50	<0.50	<0.50	39	NM
	06/25/97			14.57	19.55	<50	<0.50	<0.50	<0.50	<0.50	49	NM
	09/09,10/97			12.45	21.67	<50	<0.50	<0.50	<0.50	<0.50	78	1.0
	09/09,10/97	a		--	--	--	--	--	--	--	79	--
	11/24,25/97			12.30	21.82	<50	<0.50	<0.50	<0.50	<0.50	130	0.0
	03/19,20/98			10.18	23.94	<50	<0.50	<0.50	<0.50	<0.50	96	1.8
	06/04/98			11.00	23.12	<50	<0.30	<0.30	<0.30	<0.60	44	0.8
	09/21,22/98			12.13	21.99	<50	<0.50	<0.50	<0.50	<0.50	150	0.4
	12/14,15/98			11.60	22.52	<50	<0.50	<0.50	<0.50	<0.50	44	1.0
	03/15,16/99			10.78	23.34	<50	<0.50	<0.50	<0.50	<0.50	26.6	2.0
	06/14,15/99			11.97	22.15	<50	<0.50	<0.50	<0.50	<0.50	98.9	2.2
	09/15,16/1999			12.34	21.78	<50	<0.50	<0.50	<0.50	<0.50	66.4	NM
	12/08,09/99			12.25	21.87	<50	<0.50	<0.50	<0.50	<0.50	55.5	0.0
	03/15/00			10.16	23.96	<50	<0.50	<0.50	<0.50	<0.50	154	1.0
	03/15/00	a		--	--	--	--	--	--	--	206	--
	06/13/00	b		11.72	22.40	<50	<0.50	<0.50	<0.50	<0.50	77.7	1.0
	9/19,20/00			12.08	22.04	<50	1	<0.50	<0.50	<0.50	192	1.2
	12/14,15/00			11.74	22.38	<50	<0.50	<0.50	<0.50	<0.50	134	4.0
	3/8,9/01			10.53	23.59	<50	<0.50	<0.50	<0.50	<0.50	140	2.6
	06/14/01			11.95	22.17	<50	<0.50	<0.50	<0.50	<0.50	150	2.6
	09/26/01			12.22	21.90	<50	<0.50	<0.50	<0.50	<0.50	84	1.0
	12/29/01	c	33.81	10.32	23.49	73	<0.50	<0.50	1	7	94	2.2
	03/13/02			10.99	22.82	57	<0.50	<0.50	<0.50	<0.50	89	2.6
MW-26	03/13,15/96		33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96			11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28,29/96			12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	11/25/96			12.03	21.68	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31-04/01/97			11.84	21.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			12.94	20.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM

Table 2
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Number	Date Sampled	Well Elevation (feet, MSL)	Depth to Water (feet, TOB)	Groundwater Elevation (feet, MSL)	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
MW-26	09/09,10/97		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0
(cont.)	11/24,25/97		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
	03/19,20/98		10.55	23.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/04/98		11.22	22.49	<50	<0.30	<0.30	<0.30	<0.60	<10	2.1
	09/21,22/98		12.45	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	12/14,15/98		11.83	21.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	03/15,16/99		10.86	22.85	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	06/14,15/99		12.17	21.54	Well Sampled Annually						
	09/15/99		12.70	21.01	Well Sampled Annually						
	12/08,09/99		12.57	21.14	Well Sampled Annually						
	03/15/00		10.50	23.21	<50	<0.50	<0.50	<0.50	<0.50	6.55	1.4
	06/13/00	b	12.20	21.51	Well Sampled Annually						
	9/19,20/00		12.38	21.33	Well Sampled Annually						
	12/14,15/00		11.88	21.83	Well Sampled Annually						
	3/8,9/01		10.78	22.93	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.6
	06/14/01		12.17	21.54	Well Sampled Annually						
	09/26/01		12.70	21.01	Well Sampled Annually						
	12/29/01		10.41	23.30	Well Sampled Annually						
	03/13/02		11.27	22.44	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.4

MtBE = Methyl tert-butyl ether
MSL = Mean sea level
TOB = Top of box
ppb = Parts per billion
ppm = Parts per million
< = Less than laboratory detection limit
† = Well sampled without purging.
†† = ORC program initiated September 21, 1995 and discontinued on May 15, 1997.

NA = Not analyzed
NM = Not measured
NS = Not sampled
a. = MtBE result confirmed by EPA Method 8260.
b. = Depths to water originally measured from TOC. Depth to water adjusted to reflect a TOB measurement by adding the average difference between TOB and TOC measurements over the last four gauging events.
c. = well elevation changed during station reconstruction. well resurveyed 11/6/2001

Please see certified analytical reports for laboratory notes and definitions.

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
590 H	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96 a	NS	NS	NS	NS	NS	NA		NM
	11/26/96	NS	NS	NS	NS	NS	NS		NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	06/25/97 a	NS	NS	NS	NS	NS	NS		NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.0
	11/24/97 a	NS	NS	NS	NS	NS	NS		NM
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5		1.0
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50		3.8
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5		3.2
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0		2.2
	03/15/99 a	NS	NS	NS	NS	NS	NS		NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/15/99 a	NS	NS	NS	NS	NS	NS		NM
	12/08/99 a	NS	NS	NS	NS	NS	NS		NM
	03/15/00 a	NS	NS	NS	NS	NS	NS		NM
	06/13/00 a	NS	NS	NS	NS	NS	NS		NM
			Well Destroyed						
633 H	03/14/96	480	10	11	1.8	140	NA		NM
	05/13/96 b	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	3.70		NM
	12/30/96	--	--	--	--	--	4.9	c	NM
	03/31/97	NS	NS	NS	NS	NS	NS		NM
	06/25/97 a	NS	NS	NS	NS	NS	NS		NM
	09/10/97	<50	<0.50	<0.50	<0.50	0.66	<2.5		1.0
	11/24/97	110	2.0	2.1	1.0	4.2	<2.5	c	NM
	03/19/98	150	1.8	0.62	<0.50	28	77		NM
	03/19/98	--	--	--	--	--	<2.0	c	NM
	06/03/98	480	6.2	4.3	2.9	120	28		1.3
	09/21/98	<50	<0.50	<0.50	<0.50	0.66	<2.5		1.2
	12/14/98	<50	<0.50	<0.50	<0.50	2.21	11.7		NM
	03/15/99	<50	0.513	<0.50	<0.50	0.542	31		NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	7.93		NM
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	5.65		0.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0		1.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	17.5		1.2
	06/13/00	240	5.03	1.01	2.39	63.8	10.5		NM
			Well Destroyed						
634 H	03/13/96 a	NS	NS	NS	NS	NS	NA		NM
	05/27/96 a	NS	NS	NS	NS	NS	NA		NM
	08/29/96 a	NS	NS	NS	NS	NS	NA		NM
	11/26/96	NS	NS	NS	NS	NS	NS		NM
	03/31/97	NS	NS	NS	NS	NS	NS		NM
	06/25/97 a	NS	NS	NS	NS	NS	NS		NM
	09/09/97 g	NS	NS	NS	NS	NS	NS		NM
	11/24/97 g	NS	NS	NS	NS	NS	NS		NM
	03/19/98 e	NS	NS	NS	NS	NS	NS		NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
634 H	06/03/98 e	NS	NS	NS	NS	NS	NS	NM
(cont.)	09/21/98 e	NS	NS	NS	NS	NS	NS	NM
	12/14/98 e	NS	NS	NS	NS	NS	NS	NM
	03/15/99 e	NS	NS	NS	NS	NS	NS	NM
	06/14/99 e	NS	NS	NS	NS	NS	NS	NM
	09/15/99 e	NS	NS	NS	NS	NS	NS	NM
	12/08/99 e	NS	NS	NS	NS	NS	NS	NM
	03/15/00 e	NS	NS	NS	NS	NS	NS	NM
	06/13/00 e	NS	NS	NS	NS	NS	NS	NM
	09/19/00 e	NS	NS	NS	NS	NS	NS	NM
	12/14/00 e	NS	NS	NS	NS	NS	NS	NM
	03/08/01 e	NS	NS	NS	NS	NS	NS	NM
	06/14/01 e	NS	NS	NS	NS	NS	NS	NM
	09/26/01 e	NS	NS	NS	NS	NS	NS	NM
	12/29/01 e	NS	NS	NS	NS	NS	NS	NM
	03/13/02 e	NS	NS	NS	NS	NS	NS	NM
642 H	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	NS	NS	NS	NS	NS	NS	NM
	09/09/97 a	NS	NS	NS	NS	NS	NS	NM
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/19/98 a	NS	NS	NS	NS	NS	NS	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NM
	09/21/98 a	NS	NS	NS	NS	NS	NS	NM
	12/14/98 a	NS	NS	NS	NS	NS	NS	NM
	03/15/99 a	NS	NS	NS	NS	NS	NS	NM
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.2
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.8
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00 a	NS	NS	NS	NS	NS	NS	NM
	12/14/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	03/08/01 a	NS	NS	NS	NS	NS	NS	NM
	06/14/01 a	NS	NS	NS	NS	NS	NS	NM
	09/26/01 a	NS	NS	NS	NS	NS	NS	NM
	12/29/01 a	NS	NS	NS	NS	NS	NS	NM
	03/13/02 a	NS	NS	NS	NS	NS	NS	NM
675 H	03/13/96 a	NS	NS	NS	NS	NS	NA	NM
	05/27/96 a	NS	NS	NS	NS	NS	NA	NM
	08/29/96 d	NS	NS	NS	NS	NS	NA	NM
	11/26/96	NS	NS	NS	NS	NS	NS	NM
	03/31/97	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98 f	NS	NS	NS	NS	NS	NS	NM
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 a,f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)	Dissolved Oxygen (ppm)
675 H	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
(cont.)	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/02 f	NS	NS	NS	NS	NS	NS	NM
17197 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.4
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	2.2
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2
	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
	12/14/98	<50	<0.50	<0.50	<0.50	<0.50	<2.0	2.4
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0	1.0
	12/08/99 a	NS	NS	NS	NS	NS	NS	NM
	03/15/00 a	NS	NS	NS	NS	NS	NS	NM
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/02 f	NS	NS	NS	NS	NS	NS	NM
17200 VM	03/15/96	730	<1.0	<1.0	1.5	1.7	NA	NM
	05/27/96	200	<0.50	<0.50	1.4	1.8	NA	NM
	08/29/96	Well Destroyed						
17203 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	03/31/97 f	NS	NS	NS	NS	NS	NS	NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/09/97 f	NS	NS	NS	NS	NS	NS	NM
	11/24/97 f	NS	NS	NS	NS	NS	NS	NM
	03/19/98	Well Dry						
	06/03/98 f	NS	NS	NS	NS	NS	NS	NM
	09/21/98 f	NS	NS	NS	NS	NS	NS	NM
	12/14/98 f	NS	NS	NS	NS	NS	NS	NM
	03/15/99 f	NS	NS	NS	NS	NS	NS	NM
	06/14/99 f	NS	NS	NS	NS	NS	NS	NM
	09/15/99 f	NS	NS	NS	NS	NS	NS	NM
	12/08/99 f	NS	NS	NS	NS	NS	NS	NM
	03/15/00 f	NS	NS	NS	NS	NS	NS	NM
	06/13/00 f	NS	NS	NS	NS	NS	NS	NM
	09/19/00 f	NS	NS	NS	NS	NS	NS	NM
	12/14/00 f	NS	NS	NS	NS	NS	NS	NM
	03/08/01 f	NS	NS	NS	NS	NS	NS	NM
	06/14/01 f	NS	NS	NS	NS	NS	NS	NM
	09/26/01 f	NS	NS	NS	NS	NS	NS	NM
	12/29/01 f	NS	NS	NS	NS	NS	NS	NM
	03/13/20 f	NS	NS	NS	NS	NS	NS	NM
17302 VM	03/15/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
17302 VM	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
(cont.)	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/09/97 f	NS	NS	NS	NS	NS	NS		NM
	11/24/97 f	NS	NS	NS	NS	NS	NS		NM
	03/19/98 f	NS	NS	NS	NS	NS	NS		NM
	06/03/98 f	NS	NS	NS	NS	NS	NS		NM
	09/21/98 f	NS	NS	NS	NS	NS	NS		NM
	12/14/98 f	NS	NS	NS	NS	NS	NS		NM
	03/15/99 f	NS	NS	NS	NS	NS	NS		NM
	06/14/99 f	NS	NS	NS	NS	NS	NS		NM
	09/15/99 f	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	03/15/00 f	NS	NS	NS	NS	NS	NS		NM
	06/13/00 f	NS	NS	NS	NS	NS	NS		NM
	09/19/00 f	NS	NS	NS	NS	NS	NS		NM
	12/14/00 f	NS	NS	NS	NS	NS	NS		NM
	03/08/01 f	NS	NS	NS	NS	NS	NS		NM
	06/14/01 f	NS	NS	NS	NS	NS	NS		NM
	09/26/01 f	NS	NS	NS	NS	NS	NS		NM
	12/29/01 f	NS	NS	NS	NS	NS	NS		NM
	03/13/02 f	NS	NS	NS	NS	NS	NS		NM
17348 VE	03/13/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96		Well Dry						
	08/29/96		Well Dry						
	11/26/96		Well Dry						
	03/31/97		Well Dry						
	06/25/97		Well Inaccessible						
	09/09/97 g	NS	NS	NS	NS	NS	NS		NM
	11/24/97 g	NS	NS	NS	NS	NS	NS		NM
	03/19/98 a	NS	NS	NS	NS	NS	NS		NM
	06/03/98 a	NS	NS	NS	NS	NS	NS		NM
	09/21/98 a	NS	NS	NS	NS	NS	NS		NM
	12/14/98 a	NS	NS	NS	NS	NS	NS		NM
	03/15/99 a	NS	NS	NS	NS	NS	NS		NM
	06/14/99 f	NS	NS	NS	NS	NS	NS		NM
	09/15/99 f	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	03/15/00 a	NS	NS	NS	NS	NS	NS		NM
	06/13/00 f	NS	NS	NS	NS	NS	NS		NM
	09/19/00 f	NS	NS	NS	NS	NS	NS		NM
	12/14/00 f	NS	NS	NS	NS	NS	NS		NM
	03/08/01 f	NS	NS	NS	NS	NS	NS		NM
	06/14/01 f	NS	NS	NS	NS	NS	NS		NM
	09/26/01 f	NS	NS	NS	NS	NS	NS		NM
	12/29/01 f	NS	NS	NS	NS	NS	NS		NM
	03/13/02 f	NS	NS	NS	NS	NS	NS		NM
17349 VM	03/15/96	1,700	<2.0	<2.0	2.5	13	NA		NM
	05/27/96	320	4.2	1.3	0.95	0.71	NA		NM
	08/29/96	410	7.5	<0.50	<0.50	1.1	NA		NM
	11/26/96	300	<1.0	1.7	<1.0	2.1	55	*	NM
	03/31/97	430	<1.0	2.7	<1.0	1.0	57	c	NM
	06/25/97 **	2,100	30	<5.0	<5.0	6.7	140		NM
	08/18/97	320	2.0	<0.5	<0.5	<0.5	34		NM
	08/18/97	--	--	--	--	--	31	c	NM
	09/09/97	380	6.0	1.4	0.98	<0.50	38		3.0
	09/09/97	--	--	--	--	--	34	c	NM
	11/24/97	240	<1.0	1.1	<1.0	1.4	53		2.4
	11/24/97	--	--	--	--	--	33	c†	NM
	03/19/98	1,300	14	<0.50	<0.50	1.2	250		1.0
	03/19/98	--	--	--	--	--	27	c	NM

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
17349 VM	06/03/98	860	8.7	<0.50	0.7	8.0	38		4.9
(cont.)	07/29/98	860	20	2.1	<1.2	<1.2	27		NM
	07/29/98	--	--	--	--	--	25	c	NM
	09/21/98	200	<0.50	<0.50	<0.50	14	14		5.2
	12/14/98	254	<0.50	6.92	0.604	1.58	21.7		1.0
	03/15/99	172	1.35	<0.50	<0.50	<0.50	24.2		3.6
	06/14/99	91	<0.50	3.53	<0.50	<0.50	88.3		2.8
	09/15/99 a	133	<0.50	<0.50	<0.50	<0.50	184		2.2
	12/08/99	136	0.681	<0.50	<0.50	<0.50	267	c	2.4
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	82.1	c	2.8
	06/13/00	319	5.28	<0.5	<0.50	<0.50	97.1		NM
	06/13/00	--	--	--	--	--	85.1	c	NM
	09/19/00	106	<0.50	2	<0.50	<0.50	204.0		NM
	09/19/00	--	--	--	--	--	84.0	c	NM
	12/14/00	65.9	0.61	<0.50	<0.50	<0.50	188.0		1.8
	12/14/00	--	--	--	--	--	197.0	c	NM
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	91.8		1.8
	03/08/01	--	--	--	--	--	98.3	c	NM
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	68.0		2.8
	06/14/01	--	--	--	--	--	99.0	c	NM
	09/26/01	52	0.53	<0.50	<0.50	<0.50	49.0		1.8
	09/26/01	--	--	--	--	--	54.0	c	
	12/29/01	<50.0	<0.50	0.78	<0.50	<0.50	58.0		NM
	12/29/01	--	--	--	--	--	48.0	c	NM
	03/13/02	<50.0	1	<0.50	<0.50	<0.50	49.0		2.0
	03/13/02	--	--	--	--	--	47.0	c	NM
17371 VM	03/13/96 e	NS	NS	NS	NS	NS	NA		NM
	05/27/96 e	NS	NS	NS	NS	NS	NA		NM
	08/29/96 e	NS	NS	NS	NS	NS	NA		NM
	11/26/96 e	NS	NS	NS	NS	NS	NS		NM
	03/31/97 e	NS	NS	NS	NS	NS	NS		NM
	06/25/97 e	NS	NS	NS	NS	NS	NS		NM
	09/09/97 e	NS	NS	NS	NS	NS	NS		NM
	11/24/97 e	NS	NS	NS	NS	NS	NS		NM
	03/19/98 e	NS	NS	NS	NS	NS	NS		NM
	06/03/98 e	NS	NS	NS	NS	NS	NS		NM
	09/21/98 e	NS	NS	NS	NS	NS	NS		NM
	12/14/98 e	NS	NS	NS	NS	NS	NS		NM
	03/15/99 e	NS	NS	NS	NS	NS	NS		NM
	06/14/99 e	NS	NS	NS	NS	NS	NS		NM
	09/15/99 e	NS	NS	NS	NS	NS	NS		NM
	12/08/99 f	NS	NS	NS	NS	NS	NS		NM
	03/15/00 f	NS	NS	NS	NS	NS	NS		NM
	06/13/00 f	NS	NS	NS	NS	NS	NS		NM
	09/19/00 f	NS	NS	NS	NS	NS	NS		NM
	12/14/00 f	NS	NS	NS	NS	NS	NS		NM
	03/08/01 f	NS	NS	NS	NS	NS	NS		NM
	06/14/01 f	NS	NS	NS	NS	NS	NS		NM
	09/26/01 f	NS	NS	NS	NS	NS	NS		NM
	12/29/01 f	NS	NS	NS	NS	NS	NS		NM
	03/13/02 f	NS	NS	NS	NS	NS	NS		NM
17372 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	03/31/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/09/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		4.0
	11/24/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.0
	03/19/98	<50	<0.50	<0.50	<0.50	<0.50	1,200		1.8
	03/19/98	--	--	--	--	--	1,400	c	NM
	06/03/98	<50	<0.50	<0.50	<0.50	<0.50	16,000		1.8
	07/29/98	<200	<2.0	<2.0	<2.0	<2.0	940		NM

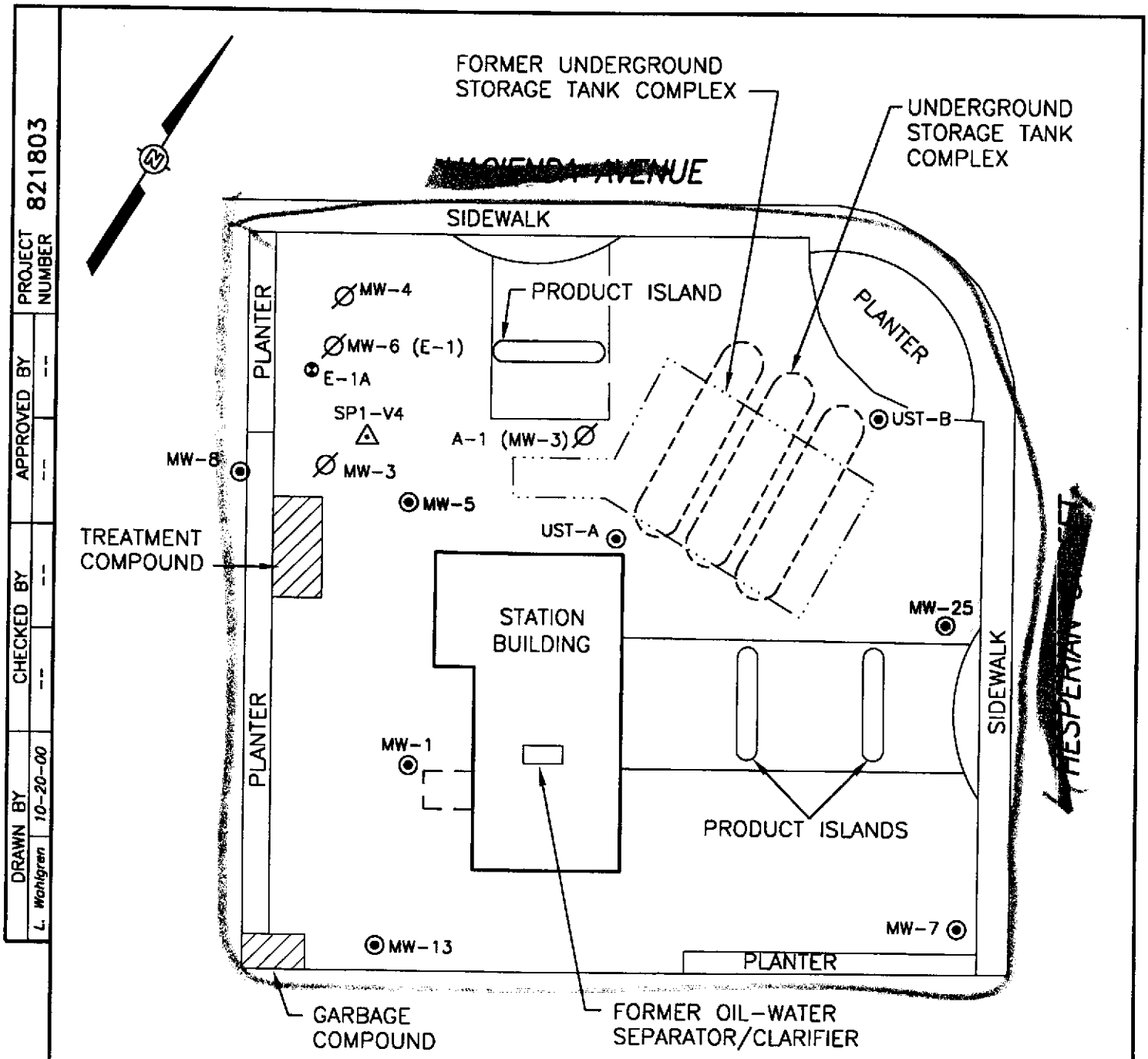
Table 3
Groundwater Analytical Data
Domestic Irrigation Wells

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Well Address	Date Sampled	TPPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MtBE (ppb)		Dissolved Oxygen (ppm)
17372 VM	07/29/98	--	--	--	--	--	1,100	c	NM
(cont.)	09/21/98	<50	<0.50	<0.50	<0.50	<0.50	200		1.6
	09/21/98	--	--	--	--	--	360	c	NM
	12/14/98	<50	<0.50	0.823	<0.50	<0.50	20.1		3.8
	03/15/99	<50	<0.50	<0.50	<0.50	<0.50	6.66		4.6
	06/14/99	<50	<0.50	<0.50	<0.50	<0.50	3.33		4.0
	09/15/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0		2.0
	12/08/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0		NM
	03/15/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5		1.6
	06/13/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	09/19/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	12/14/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.0
	03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.4
	06/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.8
	09/26/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.2
	12/29/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5		2.1
	03/13/02	<51	<0.50	<0.50	<0.50	<0.50	<2.6		1.8
17393 VM	03/14/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	05/27/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50	NA		NM
VM	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5		NM
	03/31/97 a	NS	NS	NS	NS	NS	NS		NM
	06/25/97	Well Destroyed							

TPPH = Total purgeable petroleum hydrocarbons
MtBE = Methyl tert-butyl ether
NA = Not analyzed
NS = Not sampled
ppb = Parts ber billion
H = Hacienda Avenue
VM = Via Magdalena
VE = Via Encinas
< = Less than laboratory detection limit stated to the right.
* = MtBE data maybe anamolous; unable to confirm with EPA Method 8260.
** = Concentration data are suspect due to inadequate purging. Well resampled on August 18, 1997 for confirmation purposes.
a. Owner not available to approve sampling access; well not sampled.
b. Well resampled to confirm data of March 14, 1996.
c. MtBE result confirmed by EPA Method 8260.
d. Pumping equipment obstructing sampling access; well not sampled.
e. Access denied by owner; well not sampled.
f. Pump on well does not work.
g. Well blocked and pump non-operational; well cannot be sampled.

Notes:
Homeowners are contacted 1 week prior to sampling event.
Please see certified analytical reports for laboratory notes and definitions



DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
L. Wahlgren 10-20-00	--	--	821803

LEGEND

- ⊙ GROUNDWATER MONITORING WELL
- ⊙ GROUNDWATER EXTRACTION WELL
- ∅ DESTROYED GROUNDWATER MONITORING WELL
- △ DUAL VAPOR EXTRACTION/SPARSE WELL

NOTE: UST-A AND UST-B ARE TANK-PIT OBSERVATION WELLS AND ARE NOT INCLUDED IN THE GROUNDWATER MONITORING PROGRAM

SCALE

0 30 60 FEET

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ARCO SERVICE STATION 0608

FIGURE 1
SITE MAP

17601 HESPERIAN BLVD at HACIENDA AVE
SAN LORENZO, CALIFORNIA

N:\cad\DWG\Arco0608\Sitemap.dwg Mon, 13/Nov/02 12:31pm kblack

PROJECT NUMBER 821803
APPROVED BY
CHECKED BY
DRAWN BY L.Wahlgren 5-16-02

LEGEND

- ◉ GROUNDWATER MONITORING WELL
- △ DUAL COMPLETION AIR SPARGING/ SOIL VAPOR EXTRATION WELL
- ∅ DESTROYED WELL
- ⊙ GROUNDWATER EXTRACTION WELL
- ▪ DOMESTIC IRRIGATION WELL
- (21.90) GROUNDWATER ELEVATION (FT.–MSL); MEASURED MARCH 13, 2002
- GROUNDWATER ELEVATION CONTOUR (FT.–MSL)
- † WELL REMOVED FROM MONITORING PROGRAM

VIA MANZANAS
POTRERO CT.
VIA MAGDALENA
VIA FLORES
VIA MEDIA
VIA ARRIBA
APARTMENTS
APARTMENTS
SHOPS
HESPERIAN BOULEVARD
RESTAURANT
CHURCH AND SCHOOL
RESIDENTIAL
RESTAURANT
RESIDENTIAL
VIA ENCINAS COURT
RESIDENTIAL
SHOPS
HACIENDA AVENUE
VIA ALAMO

MW-20
MW-19†
MW-21 (19.32)
MW-18 (20.24)
17200
MW-17
MW-14 (21.90)
MW-24†
MW-26 (22.44)
(22.62) MW-9
E-1A (11.31)
MW-8 (22.49)
MW-5 (22.53)
MW-25 (22.82)
MW-7†
MW-13†
MW-10 (21.99)
SP-2/V-5
MW-11 (22.16)
MW-15 (21.38)
MW-16 (20.88)
MW-22 (19.43)
MW-23 (19.98)
SP-1/V-4
590 ∅
633 ∅
642
634
675
17197
17203
17302
17372
17349
17371
17393
17348

22
21
20
12

APPROXIMATE DIRECTION OR GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.003

SCALE
0 150 300

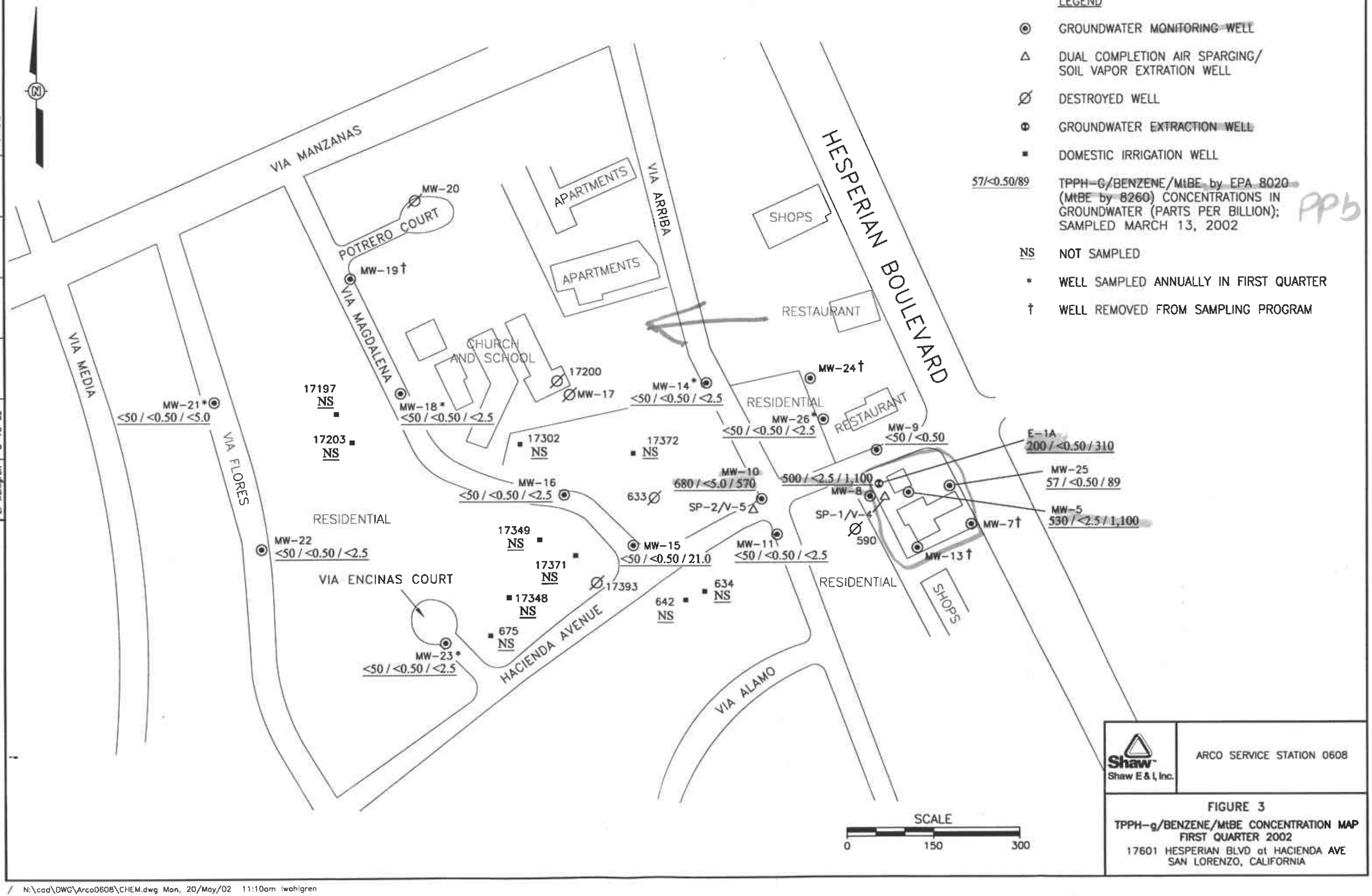
Shaw Shaw E & I, Inc.

ARCO SERVICE STATION 0608

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
FIRST QUARTER 2002
17601 HESPERIAN BLVD at HACIENDA AVE
SAN LORENZO, CALIFORNIA

N:\cad\DWG\Arco0608\GWC.dwg Mon, 20/May/02 11:12am lwahlgren

PROJECT NUMBER 821803
APPROVED BY
CHECKED BY
DRAWN BY L. Wahlgren 5-16-02



LEGEND

- ◉ GROUNDWATER MONITORING WELL
- △ DUAL COMPLETION AIR SPARGING/ SOIL VAPOR EXTRATION WELL
- ⌀ DESTROYED WELL
- ⊖ GROUNDWATER EXTRACTION WELL
- ▪ DOMESTIC IRRIGATION WELL
- 57/<0.50/89 TPPH-G/BENZENE/MtBE by EPA 8020 (MtBE by 8260) CONCENTRATIONS IN GROUNDWATER (PARTS PER BILLION); SAMPLED MARCH 13, 2002 ppb
- NS NOT SAMPLED
- * WELL SAMPLED ANNUALLY IN FIRST QUARTER
- † WELL REMOVED FROM SAMPLING PROGRAM

Shaw Shaw E & I, Inc.

ARCO SERVICE STATION 0608

FIGURE 3
TPPH-g/BENZENE/MtBE CONCENTRATION MAP
FIRST QUARTER 2002
17601 HESPERIAN BLVD at HACIENDA AVE
SAN LORENZO, CALIFORNIA

N:\cad\DWG\Arco0608\CHEM.dwg Mon, 20/May/02 11:10am lwahlgren

ATTACHMENT A

FIELD AND LABORATORY PROCEDURES

ATTACHMENT A
FIELD AND LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and checking for the presence of separate-phase hydrocarbons (SPH), using either an electronic indicator and a clear Teflon® bailer, or an oil-water interface probe. Wells not containing SPH are then purged of approximately three casing volumes of water (or to dryness) using a centrifugal pump, gas displacement pump, or bailer. Equipment used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored in order to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially recover. Groundwater samples are collected using a Teflon® bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California State-certified laboratory.

Analytical Procedures

Laboratory. The groundwater samples were analyzed for the presence of total purgeable petroleum hydrocarbons; benzene, toluene, ethylbenzene, and xylenes; and methyl tert-butyl ether. The analyses were performed according to EPA Methods 8015 (modified) and 8020, utilizing a purge-and-trap extraction technique. Final detection was by gas chromatography using flame- and photo-ionization detectors. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical report, chain-of-custody documentation, and field data sheets are presented as Attachment B.

Field. Dissolved oxygen is measured in the field utilizing a HACH DR/800 Colorimeter test kit.

ATTACHMENT B

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD DATA SHEETS

Sequoia Analytical

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

Fax

Please visit our website: *www.sequoialabs.com*

To:	Shaw Garakani	**From:**	Latonya Pelt
Company:	IT Group	**Pages:**	20
Fax:	408-437-9526	**Date:**	3/28/02
Re:	MLC0374		

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

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28 March, 2002

Shaw Garakani
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608, San Lorenzo,Ca
Sequoia Report: MLC0374

Enclosed are the results of analyses for samples received by the laboratory on 03/14/02 14:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	MLC0374-01	Water	03/13/02 13:35	03/14/02 14:10
MW-8	MLC0374-02	Water	03/13/02 12:05	03/14/02 14:10
MW-9	MLC0374-03	Water	03/13/02 11:45	03/14/02 14:10
MW-10	MLC0374-04	Water	03/13/02 12:25	03/14/02 14:10
MW-11	MLC0374-05	Water	03/13/02 11:25	03/14/02 14:10
MW-14	MLC0374-06	Water	03/13/02 11:10	03/14/02 14:10
MW-15	MLC0374-07	Water	03/13/02 10:50	03/14/02 14:10
MW-16	MLC0374-08	Water	03/13/02 10:10	03/14/02 14:10
MW-18	MLC0374-09	Water	03/13/02 09:55	03/14/02 14:10
MW-21	MLC0374-10	Water	03/13/02 09:35	03/14/02 14:10
MW-22	MLC0374-11	Water	03/13/02 09:20	03/14/02 14:10
MW-23	MLC0374-12	Water	03/13/02 09:05	03/14/02 14:10
MW-25	MLC0374-13	Water	03/13/02 13:10	03/14/02 14:10
MW-26	MLC0374-14	Water	03/13/02 12:45	03/14/02 14:10
B1-A	MLC0374-15	Water	03/13/02 13:45	03/14/02 14:10
17349 VM	MLC0374-16	Water	03/13/02 10:20	03/14/02 14:10
17372 VM	MLC0374-17	Water	03/13/02 10:30	03/14/02 14:10

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

Sequoia Analytical - Morgan Hill

Latonya K. Pelt

Latonya Pelt, Project Manager

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.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MLC0374-01) Water Sampled: 03/13/02 13:35 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	530	250	ug/l	5	2C20001	03/20/02	03/20/02	8015Bm/8021B	P-03
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	1100	12	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.6 %*	*70-130*		"	"	"	"	
MW-8 (MLC0374-02) Water Sampled: 03/13/02 12:05 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	500	250	ug/l	5	2C20001	03/20/02	03/20/02	8015Bm/8021B	P-03
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	1100	12	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	
MW-9 (MLC0374-03) Water Sampled: 03/13/02 11:45 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
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		*95.3 %*	*70-130*		"	"	"	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (MLC0374-04) Water Sampled: 03/13/02 12:25 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	**680**	500	ug/l	10	2C20001	03/20/02	03/20/02	8015Bm/8021B	P-03
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**570**	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	
MW-11 (MLC0374-05) Water Sampled: 03/13/02 11:25 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
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		*95.8 %*	*70-130*		"	"	"	"	
MW-14 (MLC0374-06) Water Sampled: 03/13/02 11:10 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
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		*95.0 %*	*70-130*		"	"	"	"	

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

Pacific Environmental Group (Area)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-15 (MLC0374-07) Water Sampled: 03/13/02 10:50 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	21	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.5 %*	*70-130*		"	"	"	"	
MW-16 (MLC0374-08) Water Sampled: 03/13/02 10:10 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
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		*96.2 %*	*70-130*		"	"	"	"	
MW-18 (MLC0374-09) Water Sampled: 03/13/02 09:55 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
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		*97.3 %*	*70-130*		"	"	"	"	

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

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-21 (MLC0374-10) Water Sampled: 03/13/02 09:35 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18004	03/18/02	03/18/02	8015Bm/8021B	
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		*96.8 %*		*70-130*		"	"	"	
MW-22 (MLC0374-11) Water Sampled: 03/13/02 09:20 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18003	03/18/02	03/18/02	8015Bm/8021B	
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		*110 %*		*70-130*		"	"	"	
MW-23 (MLC0374-12) Water Sampled: 03/13/02 09:05 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18003	03/18/02	03/18/02	8015Bm/8021B	
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		*105 %*		*70-130*		"	"	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-25 (MLC0374-13) Water Sampled: 03/13/02 13:10 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	57	50	ug/l	1	2C20004	03/20/02	03/20/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	89	2.5	"	"	"	"	"	"	P-03
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*70-130*		"	"	"	"	
MW-26 (MLC0374-14) Water Sampled: 03/13/02 12:45 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18003	03/18/02	03/18/02	8015Bm/8021B	
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		*99.3 %*	*70-130*		"	"	"	"	
E1-A (MLC0374-15) Water Sampled: 03/13/02 13:45 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	200	50	ug/l	1	2C18003	03/18/02	03/18/02	8015Bm/8021B	P-03
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	310	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	

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

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17349 VM (ML C0374-16) Water Sampled: 03/13/02 10:20 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C20003	03/20/02	03/20/02	8015Bm/8021B	
Benzene	0.79	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	49	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*70-130*		"	"	"	"	
17372 VM (ML C0374-17) Water Sampled: 03/13/02 10:30 Received: 03/14/02 14:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C18006	03/18/02	03/18/02	8015Bm/8021B	
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		*88.6 %*	*70-130*		"	"	"	"	

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885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Pacific Environmental Group (Area)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

MTBE Confirmation by EPA Method 8260B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
17349 VM (MLC0374-16) Water Sampled: 03/13/02 10:20 Received: 03/14/02 14:10									**PH**
Methyl tert-butyl ether	47	0.50	ug/l	1	2C22021	03/21/02	03/21/02	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*89.8 %*		*60-140*		"	"	"	

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

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C18003 - EPA 5030B [P/T]										
Blank (2C18003-BLK1)				Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	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	*10.7*		"	*10.0*		*107*	*70-130*			
LCS (2C18003-BS1)				Prepared & Analyzed: 03/18/02						
Benzene	10.7	0.50	ug/l	10.0		107	70-130			
Toluene	10.9	0.50	"	10.0		109	70-130			
Ethylbenzene	10.7	0.50	"	10.0		107	70-130			
Xylenes (total)	32.1	0.50	"	30.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.9*		"	*10.0*		*109*	*70-130*			
LCS (2C18003-BS2)				Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	272	50	ug/l	250		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	*11.7*		"	*10.0*		*117*	*70-130*			
Matrix Spike (2C18003-MS1)		**Source: MLC0371-01**		Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	459	50	ug/l	550	ND	83.5	60-140			
Benzene	9.05	0.50	"	6.60	ND	137	60-140			
Toluene	41.2	0.50	"	39.7	ND	104	60-140			
Ethylbenzene	9.36	0.50	"	9.20	ND	102	60-140			
Xylenes (total)	48.2	0.50	"	46.1	ND	105	60-140			
Surrogate: a,a,a-Trifluorotoluene	*11.2*		"	*10.0*		*112*	*70-130*			
Matrix Spike Dup (2C18003-MSD1)		**Source: MLC0371-01**		Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	519	50	ug/l	550	ND	94.4	60-140	12.3	25	
Benzene	9.83	0.50	"	6.60	ND	149	60-140	8.26	25	QM-07
Toluene	43.7	0.50	"	39.7	ND	110	60-140	5.89	25	
Ethylbenzene	10.2	0.50	"	9.20	ND	111	60-140	8.59	25	
Xylenes (total)	49.8	0.50	"	46.1	ND	108	60-140	3.27	25	
Surrogate: a,a,a-Trifluorotoluene	*13.5*		"	*10.0*		*135*	*70-130*			*S-02*

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Morgan Hill, CA 95037
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1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C18004 - EPA 5030B [P/T]										
Blank (2C18004-BLK1)				Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	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	*9.77*		"	*10.0*		*97.7*	*70-130*			
LCS (2C18004-BS1)				Prepared & Analyzed: 03/18/02						
Benzene	10.8	0.50	ug/l	10.0		108	70-130			
Toluene	10.6	0.50	"	10.0		106	70-130			
Ethylbenzene	10.9	0.50	"	10.0		109	70-130			
Xylenes (total)	31.1	0.50	"	30.0		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.75*		"	*10.0*		*97.5*	*70-130*			
LCS (2C18004-BS2)				Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	253	50	ug/l	250		101	70-130			
Surrogate: a,a,a-Trifluorotoluene	*14.8*		"	*10.0*		*148*	*70-130*			*S-02*
Matrix Spike (2C18004-MS1)		Source: MLC0374-05		Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	490	50	ug/l	550	ND	89.1	60-140			
Benzene	7.60	0.50	"	6.60	ND	115	60-140			
Toluene	39.5	0.50	"	39.7	ND	99.3	60-140			
Ethylbenzene	9.80	0.50	"	9.20	ND	107	60-140			
Xylenes (total)	47.0	0.50	"	46.1	ND	102	60-140			
Surrogate: a,a,a-Trifluorotoluene	*5.71*		"	*10.0*		*57.1*	*70-130*			*S-04*
Matrix Spike Dup (2C18004-MSD1)		Source: MLC0374-05		Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	499	50	ug/l	550	ND	90.7	60-140	1.82	25	
Benzene	8.58	0.50	"	6.60	ND	130	60-140	12.1	25	
Toluene	44.2	0.50	"	39.7	ND	111	60-140	11.2	25	
Ethylbenzene	10.2	0.50	"	9.20	ND	111	60-140	4.00	25	
Xylenes (total)	50.2	0.50	"	46.1	ND	109	60-140	6.58	25	
Surrogate: a,a,a-Trifluorotoluene	*6.04*		"	*10.0*		*60.4*	*70-130*			*S-04*

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885 Jarvis Drive
Morgan Hill, CA 95037
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San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C18006 - EPA 5030B [P/T]										
Blank (2C18006-BLK1)				Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	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	*9.11*		"	*10.0*		*91.1*	*70-130*			
LCS (2C18006-BS1)				Prepared & Analyzed: 03/18/02						
Benzene	8.16	0.50	ug/l	10.0		81.6	70-130			
Toluene	8.20	0.50	"	10.0		82.0	70-130			
Ethylbenzene	8.29	0.50	"	10.0		82.9	70-130			
Xylenes (total)	24.2	0.50	"	30.0		80.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.01*		"	*10.0*		*90.1*	*70-130*			
LCS (2C18006-BS2)				Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	266	50	ug/l	250		106	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.06*		"	*10.0*		*90.6*	*70-130*			
Matrix Spike (2C18006-MS1)		Source: MLC0331-01		Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	473	50	ug/l	550	ND	86.0	60-140			
Benzene	9.65	0.50	"	6.60	ND	146	60-140			QM-07
Toluene	35.1	0.50	"	39.7	ND	88.4	60-140			
Ethylbenzene	8.41	0.50	"	9.20	ND	91.4	60-140			
Xylenes (total)	40.1	0.50	"	46.1	ND	87.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.95*		"	*10.0*		*99.5*	*70-130*			
Matrix Spike Dup (2C18006-MSD1)		Source: MLC0331-01		Prepared & Analyzed: 03/18/02						
Gasoline Range Organics (C6-C10)	484	50	ug/l	550	ND	88.0	60-140	2.30	25	
Benzene	9.60	0.50	"	6.60	ND	145	60-140	0.519	25	QM-07
Toluene	35.1	0.50	"	39.7	ND	88.4	60-140	0.00	25	
Ethylbenzene	8.40	0.50	"	9.20	ND	91.3	60-140	0.119	25	
Xylenes (total)	40.1	0.50	"	46.1	ND	87.0	60-140	0.00	25	
Surrogate: a,a,a-Trifluorotoluene	*9.71*		"	*10.0*		*97.1*	*70-130*			

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885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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www.sequoialabs.com

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1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C20001 - EPA 5030B [P/T]										
Blank (2C20001-BLK1)				Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	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	*10.6*		"	*10.0*		*108*	*70-130*			
LCS (2C20001-BS1)				Prepared & Analyzed: 03/20/02						
Benzene	10.6	0.50	ug/l	10.0		106	70-130			
Toluene	10.5	0.50	"	10.0		105	70-130			
Ethylbenzene	10.8	0.50	"	10.0		108	70-130			
Xylenes (total)	32.1	0.50	"	30.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.4*		"	*10.0*		*104*	*70-130*			
LCS (2C20001-BS2)				Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	277	50	ug/l	250		111	70-130			
Surrogate: a,a,a-Trifluorotoluene	*11.0*		"	*10.0*		*110*	*70-130*			
Matrix Spike (2C20001-MS1)		Source: MLC0396-04		Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	417	50	ug/l	550	ND	75.8	60-140			
Benzene	7.69	0.50	"	6.60	ND	117	60-140			
Toluene	36.8	0.50	"	39.7	ND	92.7	60-140			
Ethylbenzene	8.78	0.50	"	9.20	ND	95.4	60-140			
Xylenes (total)	44.5	0.50	"	46.1	ND	96.5	60-140			
Surrogate: a,a,a-Trifluorotoluene	*11.5*		"	*10.0*		*115*	*70-130*			
Matrix Spike Dup (2C20001-MSD1)		Source: MLC0396-04		Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	516	50	ug/l	550	ND	93.8	60-140	21.2	25	
Benzene	9.01	0.50	"	6.60	ND	137	60-140	15.8	25	
Toluene	42.0	0.50	"	39.7	ND	106	60-140	13.2	25	
Ethylbenzene	10.3	0.50	"	9.20	ND	112	60-140	15.9	25	
Xylenes (total)	48.3	0.50	"	46.1	ND	105	60-140	8.19	25	
Surrogate: a,a,a-Trifluorotoluene	*12.0*		"	*10.0*		*120*	*70-130*			

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Morgan Hill, CA 95037
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1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C20003 - EPA 5030B [P/T]										
Blank (2C20003-BLK1)				Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	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*	*70-130*			
LCS (2C20003-BS1)				Prepared & Analyzed: 03/20/02						
Benzene	10.2	0.50	ug/l	10.0		102	70-130			
Toluene	10.4	0.50	"	10.0		104	70-130			
Ethylbenzene	10.2	0.50	"	10.0		102	70-130			
Xylenes (total)	30.7	0.50	"	30.0		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.2*		"	*10.0*		*102*	*70-130*			
LCS (2C20003-BS2)				Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	260	50	ug/l	250		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.7*		"	*10.0*		*107*	*70-130*			
Matrix Spike (2C20003-MS1)		Source: MLC0403-01		Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	520	50	ug/l	550	ND	94.5	60-140			
Benzene	9.62	0.50	"	6.60	ND	146	60-140			QM-07
Toluene	43.9	0.50	"	39.7	ND	110	60-140			
Ethylbenzene	10.3	0.50	"	9.20	ND	112	60-140			
Xylenes (total)	50.5	0.50	"	46.1	ND	110	60-140			
Surrogate: a,a,a-Trifluorotoluene	*13.4*		"	*10.0*		*134*	*70-130*			*S-02*
Matrix Spike Dup (2C20003-MSD1)		Source: MLC0403-01		Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	540	50	ug/l	550	ND	98.2	60-140	3.77	25	
Benzene	10.9	0.50	"	6.60	ND	165	60-140	12.5	25	QM-07
Toluene	46.1	0.50	"	39.7	ND	116	60-140	4.89	25	
Ethylbenzene	10.8	0.50	"	9.20	ND	117	60-140	4.74	25	
Xylenes (total)	52.5	0.50	"	46.1	ND	114	60-140	3.88	25	
Surrogate: a,a,a-Trifluorotoluene	*14.9*		"	*10.0*		*149*	*70-130*			*S-02*

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

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1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C20004 - EPA 5030B [P/T]										
Blank (2C20004-BLK1)				Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	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	*9.92*		"	*10.0*		*99.2*	*70-130*			
LCS (2C20004-BS1)				Prepared & Analyzed: 03/20/02						
Benzene	10.9	0.50	ug/l	10.0		109	70-130			
Toluene	10.8	0.50	"	10.0		108	70-130			
Ethylbenzene	11.4	0.50	"	10.0		114	70-130			
Xylenes (total)	33.0	0.50	"	30.0		110	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.92*		"	*10.0*		*99.2*	*70-130*			
LCS (2C20004-BS2)				Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	243	50	ug/l	250		97.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	*14.9*		"	*10.0*		*149*	*70-130*			*S-02*
Matrix Spike (2C20004-MS1)		Source: MLC0402-03		Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	522	50	ug/l	550	ND	94.9	60-140			
Benzene	8.66	0.50	"	6.60	ND	131	60-140			
Toluene	44.8	0.50	"	39.7	ND	113	60-140			
Ethylbenzene	10.1	0.50	"	9.20	ND	110	60-140			
Xylenes (total)	48.9	0.50	"	46.1	ND	106	60-140			
Surrogate: a,a,a-Trifluorotoluene	*6.05*		"	*10.0*		*60.5*	*70-130*			*S-04*
Matrix Spike Dup (2C20004-MSD1)		Source: MLC0402-03		Prepared & Analyzed: 03/20/02						
Gasoline Range Organics (C6-C10)	520	50	ug/l	550	ND	94.5	60-140	0.384	25	
Benzene	8.29	0.50	"	6.60	ND	126	60-140	4.37	25	
Toluene	42.6	0.50	"	39.7	ND	107	60-140	5.03	25	
Ethylbenzene	10.6	0.50	"	9.20	ND	115	60-140	4.83	25	
Xylenes (total)	50.7	0.50	"	46.1	ND	110	60-140	3.61	25	
Surrogate: a,a,a-Trifluorotoluene	*5.63*		"	*10.0*		*56.3*	*70-130*			*S-04*

Sequoia Analytical

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

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

MTBE Confirmation by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C22021 - EPA 5030B P/T										
Blank (2C22021-BLK1)				Prepared & Analyzed: 03/21/02						
Methyl tert-butyl ether	ND	0.50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*8.94*		"	*10.0*		*89.4*	*60-140*			
LCS (2C22021-BS1)				Prepared & Analyzed: 03/21/02						
Methyl tert-butyl ether	9.14	0.50	ug/l	10.0		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.19*		"	*10.0*		*91.9*	*60-140*			
Matrix Spike (2C22021-MS1)		Source: MLC0399-02		Prepared & Analyzed: 03/21/02						
Methyl tert-butyl ether	1580	20	ug/l	400	1400	45.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	*8.93*		"	*10.0*		*89.3*	*60-140*			
Matrix Spike Dup (2C22021-MSD1)		Source: MLC0399-02		Prepared & Analyzed: 03/21/02						
Methyl tert-butyl ether	1550	20	ug/l	400	1400	37.5	70-130	1.92	25	QM-07
Surrogate: 1,2-Dichloroethane-d4	*9.01*		"	*10.0*		*90.1*	*60-140*			

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 ARCO 608	**Reported:**
San Jose CA, 95131	Project Manager: Shaw Garakani	03/28/02 14:15

Notes and Definitions

P-03	Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
PH	There was insufficient preservative to reduce the sample pH to less than 2. The sample was analyzed within 14 days of sampling, but beyond the 7 days recommended for Benzene, Toluene, and Ethylbenzene. The results may be useful for their intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
S-04	The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
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

MAR-28-2002 18:22 | 99% | P.19

MAR. 28. 2002 (THU) 17:42 | PAGE. 19/20

SEQUOIA ANALYTICAL CHAIN OF COUSTODY

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
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☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
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☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group
Project: 821803 ARCO 608
Mailing Address: 1921 Ringwood Av.
Address (if different): 17801 Hesperian Blvd
City: San Jose State: CA Zip Code: 95131
San Lorenzo CA
Telephone: 408) 453-7300 Fax #: 408) 437-9526
P.O. #: 2116200 Client: Paul Supple
Report To: Shaw Garakani E-Mail:
QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV
Sampler: Pedro E Ruiz Date / Time Results Required:
Sequoia's Work Order #: MLC0374

Turnaround Time: ☒ 10 - 15 Working Days (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☒ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method): Gas/BTEX; MTBE

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Gas/BTEX	MTBE								Comments/ Temp.(if required)
1. MW-5	3/13/02 13:35	W	3	40ml VOA HCl	01	X	X								
2. MW-8	12:05	↓	↓	↓	02	↓	↓								
3. MW-9	11:45				03										
4. MW-10	10:25				04										
5. MW-11	11:05				05										
6. MW-14	11:10				06										
7. MW-15	10:20				07										
8. MW-16	10:10				08										
9. MW-18	9:35				09										
10. MW-21	9:35	↓	↓	↓	10	↓	↓								3/14/02

Relinquished By: [signature] 3/13/02 17:00	Received By: [signature]	Date / Time: 3/14/02 11:54
Relinquished By: [signature]	Received By: [signature]	Date / Time: 3/14/02 14:10
Relinquished By:	Received By:	Date / Time
Relinquished By:	Received By:	Date / Time:

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: Sequoia Page 1 of 2

Pink - Client Yellow - Sequoia White - Sequoia

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
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☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group
Mailing Address: 1921 Ringwood Av
City: San Jose State: CA Zip Code: 95131
Telephone: (408) 453-7300 Fax #: (408) 437-9526
Report To: Shaw Garakani E-Mail:
Sampler: Pedro Ruiz Date / Time Results Required:

Project: 801803 ARCO 608
Address (if different): 17601 Hesperian Blvd San Lorenzo CA.
P.O. #: 24150200 Client: Paul Supple
QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV
Sequoia's Work Order # MLC0379

Turnaround Time: ☒ 10 - 15 Working Days [Standard TAT] ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☒ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method)

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Gas/BTEX	MTBE							Comments/Temp. (if required)
1.	MW-22	3-13-02 9:20	W	3	VOAs 40ml HCL	11	X	X							*Run
2.	MW-23	9:05	↓	↓	↓	12	↓	↓							8260 MTBE
3.	MW-25	13:10				13									Confirmation
4.	MW-26	10:45				14									on this
5.	E1-A	13:45				15									wells w/
*6.	17349VM	10:00				16									hits >35ppb
*7.	17372VM	10:30	↓	↓	↓	17	↓	↓							
8.															
9.															
10.															

Relinquished By:	[signature] 3.13.02 17:00	Received By:	[signature]	Date / Time:	3/14/02 1154
Relinquished By:	[signature]	Received By:	[signature]	Date / Time:	3/14/01 1410
Relinquished By:		Received By:		Date / Time	
Relinquished By:		Received By:		Date / Time:	

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: Courier Page 2 of 2

Pink - Client Yellow - Sequoia White - Sequoia

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
821803	608	17601 Hesperian, San Lorenzo	1Q02	Shaw Garakani			Sequoia 24152 00	Paul Supple

Well Number	Sampling Order	Sample I.D.	Gauge/Sample Frequency	Analyses	TOB TOC	Well Depth	Top of Screen	Casing Diameter	Well goes Dry?	Comments
MW-5	16		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	14		4"	YES	Please repair or replace
MW-7	15		--	Removed from Program	--	19		3"	NO	missing or broken locks, j-plugs,
MW-8	17		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	NO	slip caps, lid bolts ect. Please
MW-9	14		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	note any repairs performed or that
MW-10	18		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	need to be performed.
MW-11	10		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	
MW-13	9		--	Removed from Program	--	23.5		3"	YES	D.O. before purge on all wells
MW-14	8		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	
MW-15	7		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	sample MW-15 early to avoid cars -
MW-16	6		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	23		3"	YES	may be inaccessible due to
MW-18	5		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	Dahman's car (633 Hacienda)
MW-19	4		--	Removed from Program	--	22		3"	YES	
MW-21	3		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-22	2		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-23	1		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-24	11		--	Removed from Program	--	20		2"	YES	
MW-25	12		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	21		2"	YES	
MW-26	13		QLY/ANNUAL 1Q	MtBE/GAS/BTEX	TOB/TOC	20		2"	YES	
E-1A	19		QLY/QLY	MtBE/GAS/BTEX	TOB/TOC	26		?	YES	

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
809628	608	17601 Hesperian San Lorenzo	1Q02	Shaw Garakani			Sequoia 22340	Paul Supple

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Top of Screen	Well goes Dry?	Comments
		590 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					well destroyed 9/15
		633 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					well destroyed 9/15
Mrs Albright		634 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					
Ms. Corregedor		642 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr/Mrs Roberts		675 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr Luehrs		17348 Via Encinas	QLY	GAS/BTEX/MtBE	TOB/TOC					
Alex Gordin		17197 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Cavalry Church		17200 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					well paved over
Martha Gomez		17203 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr/Mrs Johanson		17302 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Kast		17349 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Manry		17371 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Pimental		17372 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Whaley		17393 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					well abandoned 7/97

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
821803	608	17601 Hesperian San Lorenzo	1q02	Shaw Garakani			Sequoia 24152 00	Paul Supple

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Top of Screen	Well goes Dry?	Comments
		590 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC	well destroyed 9/15				SEE ATTACHED CONTACT FORM.
		633 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC	well destroyed 9/15				
Mrs Albright		634 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					
Ms. Corregedor		642 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC	Removed from program				
Mr/Mrs Roberts		675 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					**Instruct Sequoia to run 8260 MtBE
Mr Luehrs		17348 Via Encinas	QLY	GAS/BTEX/MtBE	TOB/TOC					confirmation on homeowner wells
Mr. Gordin		17197 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC	Removed from program				with hits > 35 ppb.
Cavalry Church		17200 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC	Well Paved Over				
Mrs. Gomez		17203 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC	Removed from program				
Mr/Mrs Johanson		17302 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Kast		17349 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Manry		17371 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Pimental		17372 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					
Mr. Whaley		17393 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC	Well Abandoned 7/97.				

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FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 821803 LOCATION: 1760 Hasbrouck Blvd DATE: 3-13-02

CLIENT/STATION NO.: _____ FIELD TECHNICIAN: Ronald Ruiz DAY OF WEEK: WED.

PROBE TYPE/ID No.
- ☐ Oil/Water IF/ _____
- ☐ H_2O level indicator _____
- ☐ Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	SERARATE-PHASE HYDROCARBONS (SPH) COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons) SPH / H_2O
	MW-16		–	–	–	–	–		10.06 / 10.05	10.51 / 10.51										/
	MW-18		–	–	–	–	–		9.15 / 9.15	9.40 / 9.40										/
	MW-19																			/
	MW-21		–	–	–	–	–		8.81 / 8.81	9.40 / 9.40										/
	MW-22		–	–	–	–	–		9.56 / 9.56	9.86 / 9.86										/
	MW-23		–	–	–	–	–		10.98 / 10.70	11.10 / 11.01										/
	MW-24																			/
	MW-25		–	–	–	–	–		10.48 / 10.48	10.99 / 10.99										/
	MW-26		–	–	–	–	–		10.82 / 10.82	11.27 / 11.27										/

Comments: E-W 20.05 21.75

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 7601 Hesperian Blvd WELL ID #: MW-5

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 14.00 DTW 10.95 = 3.05 x Gal/Linear Foot .38 = 1.01 x Number of Casings 3 = Calculated Purge 3.03

DATE PURGED: 3-13-02 START: 13:20 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 13:35 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
13:23	2	7.11	1100	590	Cloudy	Mod	Mod
13:26	4	7.00	1100	594	Cloudy	Mod	Mod

Pumped dry (Yes) / No At first!

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☑ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: D3005
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW5	3-13-02	13:35	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 3

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 17601 Hesperian Blvd WELL ID #: MW-8

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2	.....	0.17
☑ 3	.....	0.38
☐ 4	.....	0.66
☐ 4.5	.....	0.83
☐ 5	.....	1.02
☐ 6	.....	1.5
☐ 8	.....	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.00 DTW 9.48 10.02 x Gal/Linear Foot .38 = 4.75 x Number of Casings 3 = Calculated Purge 14.27

DATE PURGED: 3-13-02 START: 11:52 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 12:05 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
11:56	4.75	6.79	1170	63.9	Cloudy	Hvy	Mod
11:58	9.5	6.73	1130	65.6	Cloudy	Hvy	Mod
12:02	14.25	6.71	1100	66.3	Clear	Mod	Mod

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW8	3-13-02	12:05	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 2

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 HESPERIAN BLVD WELL ID #: MW-9

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.00 DTW 8.90 10.1 x Gal/Linear Foot .38 = 3.83 x Number of Casings 3 = Calculated Purge 11.51

DATE PURGED: 3-13-00 START: 11:32 END (2400 hr): ——— PURGED BY: RE

DATE SAMPLED: 3-13-00 START: 11:46 END (2400 hr): ——— SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
11:35	3.75	6.94	1010	62.4	Cloudy	Light	Slight
11:38	7.5	6.92	926	63.4	Cloudy	Light	Slight
11:41	11.25	6.98	937	65.3	Cloudy	Light	Slight

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: DISP
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW9	3-13-00	11:46	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 2

SIGNATURE: _____

the igroup

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 7601 HESPERIAN BLVD WELL ID #: MW-10

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.00 DTW 4.06 = 15.94 x Gal/Linear Foot .38 = 6.06 x Number of Casings 3 = Calculated Purge 18.18

DATE PURGED: 3-13-02 START: 12:10 END (2400 hr): _____ PURGED BY: JE

DATE SAMPLED: 3-13-02 START: 12:25 END (2400 hr): _____ SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
12:14	5	6.73	1160	67.6	Cloudy	Mod	Strong
12:17	10	6.70	1140	66.9	Cloudy	Mod	Faint
12:20	16	6.74	1120	66.8	Cloudy	Mod	Faint

Pumped dry Yes / No

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW10-3-1302		12:26	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 3.2

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION: 1760 Hesperian Blvd WELL ID #: MW-11

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2		0.17
☑ 3		0.38
☐ 4		0.66
☐ 4.5		0.83
☐ 5		1.02
☐ 6		1.5
☐ 8		2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.00 DTW 9.96 = 9.05 x Gal/Linear Foot .38 3/4 3 x Number of Casings 3 = Calculated Purge 10.31

DATE PURGED: 3-13-02 START: 11:13 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 11:25 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
11:18	3.5	7.02	1210	68.4	Clear	Mod	None
11:20	7	6.82	1210	59.2	Clear	Mod	None
11:23	10.5	6.91	1220	60.2	Clear	Mod	None

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☑ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW11	3-13-02	11:26	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 2.2

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 Hesperian Blvd WELL ID #: MW-14

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2	.....	0.17
☑ 3	.....	0.38
☐ 4	.....	0.66
☐ 4.5	.....	0.83
☐ 5	.....	1.02
☐ 6	.....	1.5
☐ 8	.....	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 24.00 DTW 8.07 = 15.93 Gal/Linear Foot .38 = 5.97 x Number of Casings 3 = Calculated Purge 17.93

DATE PURGED: 3-13-02 START: 10:57 END (2400 hr): ——— PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 11:10 END (2400 hr): ——— SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1001	6	7.17	1210	68.9	Cloudy	Mod	None
11:04	12	6.98	1240	59.8	Cloudy	Mod	None
11:07	18	6.87	1270	60.2	Cloudy	Mod	None

Pumped dry Yes / (No)

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW14	3-13-02	11:10	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 2.0

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 HESPERIAN BLVD WELL ID #: MW-15

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2		0.17
☑ 3		0.38
☐ 4		0.66
☐ 4.5		0.83
☐ 5		1.02
☐ 6		1.5
☐ 8		2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 24.00 DTW 9.66 = 14.46 x Gal/Linear Foot .38 = 5.49 x Number of Casings 3 = Calculated Purge 16.47

DATE PURGED: 3-13-02 START: 10:30 END (2400 hr): _____ PURGED BY: RE

DATE SAMPLED: 3-13-02 START: 10:50 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:40	5.5	6.90	1090	58.7	Cloudy	Mod	None
10:43	11	6.81	1010	59.6	Cloudy	Mod	None
10:47	16.5	6.77	1140	61.9	Cloudy	Light	None

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☑ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: D.3005
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW15	3-13-02	10:60	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 1.2

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 7601 HESPERIAN Blvd WELL ID #: MW-10

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 23.00 DTW 10.05 = 12.95 x Gal/Linear Foot .38 = 4.92 x Number of Casings 3 = Calculated Purge 14.70

DATE PURGED: 3-13-02 START: 9:58 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 10:10 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:04	5	7.18	1100	68.4	Cloudy	Light	None
10:04	10	6.97	1110	69.1	Cloudy	Light	None
10:08	15	6.84	1070	69.3	Cloudy	Light	None

Pumped dry Yes (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW10-031302	3-13-02	10:10	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 1.6

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 HESPERIAN Blvd WELL ID #: MW-18

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.00 DTW 9.15 = 10.85 x Gal/Linear Foot .38 = 4.88 x Number of Casings 3 = Calculated Purge 14.64

DATE PURGED: 3-13-02 START: 9:40 END (2400 hr): ——— PURGED BY: DE

DATE SAMPLED: 3-13-02 START: 9:55 END (2400 hr): ——— SAMPLED BY: DE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:43	4.75	7.00	1270	58.9	Clear	Mod	None
9:46	9.5	6.86	1280	61.0	Clear	Mod	None
9:50	14.25	6.81	1310	63.0	Clear	Mod	None

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: D.3005
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW18	3-13-02	9:55	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 2.8

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION: 7601 HESPERIAN BLVD WELL ID #: MW-01

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2	.....	0.17
☑ 3	.....	0.38
☐ 4	.....	0.66
☐ 4.5	.....	0.83
☐ 5	.....	1.02
☐ 6	.....	1.5
☐ 8	.....	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.00 DTW 8.84 / 13.16 Gal/Linear Foot .38 = 5.00 Number of Casings 3 Calculated = Purge 15.00

DATE PURGED: 3-13-02 START: 9:24 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 9:35 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:27	5	7.00	1280	60.3	Clear	Light	None
9:30	10	6.87	1300	61.2	Clear	Light	None
9:33	15	6.85	1310	63.4	Clear	Light	None

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-01	3-13-02	9:35	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO = 1.2

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 7601 Hesperian Blvd WELL ID #: MW-02

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.00 DTW 9.55 = 12.45 x Gal/Linear Foot .38 = 4.73 x Number of Casings 3 = Calculated Purge 14.19

DATE PURGED: 3-13-02 START: 9:09 END (2400 hr): ——— PURGED BY: JE

DATE SAMPLED: 3-13-02 START: 9:20 END (2400 hr): ——— SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:12	4.75	7.03	1130	60.3	Cloudy	Mod	Low
9:15	9.5	6.96	1140	61.8	Cloudy	Mod	Low
9:18	14.25	6.94	1140	63.0	Clear	Mod	Low

Pumped dry Yes / (No)

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: D3505
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW02	3-13-02	9:20	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 1.4

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 7601 Hesperian Blvd WELL ID #: MW-23

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 22.00 DTW 10.70 = 11.3 x Gal/Linear Foot .38 = 4.29 x Number of Casings 3 = Calculated Purge 12.88

DATE PURGED: 3-13-02 START: 8:52 END (2400 hr): ——— PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 9:05 END (2400 hr): ——— SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
8:55	4.25	6.71	1220	57.0	Cloudy	Mod	Mod
8:58	8.6	6.71	1240	58.9	Cloudy	Mod	Mod
9:01	12.75	6.72	1250	60.6	Cloudy	Mod	Mod

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW23-3-13-02	3-13-02	9:05	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 0

SIGNATURE: _____

the igroup

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION: 7600 Hesperian Blvd WELL ID #: MW-25

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER	GAL/ LINEAR FT.
☐ 2	0.17
☑ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 21.00 DTW 10.48/10.50 x Gal/Linear Foot .38 = 1.78 x Number of Casings 3 = Calculated Purge 5.36

DATE PURGED: 3-13-02 START: 12:58 END (2400 hr): ——— PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 13:10 END (2400 hr): ——— SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
13:01	1.75	7.09	1190	60.4	Cloudy	Mod	Slight
13:05	3.5	6.92	1200	61.6	Cloudy	Mod	Slight
13:08	5.25	6.85	1200	62.1	Cloudy	Mod	Slight

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☑ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW25	3-13-02	13:10	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 2.6

SIGNATURE: _____

the igroup

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 HESPERIAN BLVD WELL ID #: MW-26

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER	GAL/ LINEAR FT.
☒ 2	0.17
☐ 3	0.38
☐ 4	0.66
☐ 4.5	0.83
☐ 5	1.02
☐ 6	1.5
☐ 8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 20.00 DTW 10.82 = 9.18 x Gal/Linear Foot 0.38 = 1.66 x Number of Casings 3 = Calculated Purge 4.68

DATE PURGED: 3-13-02 START: 12:29 END (2400 hr): ——— PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 12:46 END (2400 hr): ——— SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
12:33	1.6	7.08	1240	65.4	Cloudy	Mod	None
12:36	3	7.19	1230	656	Cloudy	Mod	None
12:40	4.6	7.14	1230	656	Cloudy	Mod	None

Pumped dry Yes / (No)

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: D-3005
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW26	3-13-02	12:46	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 1.4

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 7601 Hesperian Blvd WELL ID #: MW-1-A

CLIENT/STATION No.: Arco - 608 FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐	2	0.17
☑	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD _____ - DTW 20.05 _____ x Gal/Linear Foot .38 = _____ x Number of Casings 3 = Calculated Purge _____

DATE PURGED: 3-13-02 START: _____ END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 13:45 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR

Pumped dry Yes / No

Cobalt 0-100 Clear Cloudy Yellow Brown | NTU 0-200 Heavy Moderate Light Trace | Strong Moderate Faint None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC 7.15 1200 6.30 Cloudy/Yellow Brown

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp05
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
E1-A	3-13-02	13:45	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 3.4

SIGNATURE: _____

the i group

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 HESPERIAN BLVD WELL ID #: MW-1 / 17349

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☐ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2		0.17
☑ 3		0.38
☐ 4		0.66
☐ 4.5		0.83
☐ 5		1.02
☐ 6		1.5
☐ 8		2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD _____ - DTW _____ = _____ x Gal/Linear Foot 0.38 = _____ x Number of Casings 3 = Calculated Purge _____

DATE PURGED: 3-13-02 START: _____ END (2400 hr): ——— PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 10:00 END (2400 hr): ——— SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR

Pumped dry Yes / No

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC 7-04 1100 58.7 Clear Light None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☑ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17349 W4	3-13-02	10:20	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: 10:20

SIGNATURE: _____

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FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 821803 LOCATION 1760 HESPERIAN BLVD WELL ID #: MW-1732-W1

CLIENT/STATION No.: ARCO - 608 FIELD TECHNICIAN: PEDRO E. RUIZ

WELL INFORMATION

Depth to Liquid:_____TOB_____TOC
Depth to water:_____TOB_____TOC
Total depth:_____TOB_____TOC
Date:_____Time (2400):_____

Probe Type and I.D. #
- ☐ Oil/Water interface_____
- ☐ Electronic indicator_____
- ☐ Other;_____

CASING DIAMETER		GAL/ LINEAR FT.
☐ 2	———	0.17
☑ 3	———	0.38
☐ 4	———	0.66
☐ 4.5	———	0.83
☐ 5	———	1.02
☐ 6	———	1.5
☐ 8	———	2.6

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other;_____

TD_____ - DTW_____ = _____ x Gal/Linear Foot 0.38 = _____ x Number of Casings 3 = Calculated Purge_____

DATE PURGED: 3-13-02 START:_____ END (2400 hr):_____ PURGED BY: PE

DATE SAMPLED: 3-13-02 START: 1030 END (2400 hr):_____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR

Pumped dry Yes / No

Cobalt 0-100, Clear, Cloudy, Yellow, Brown | NTU 0-200, Heavy, Moderate, Light, Trace | Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW:_____ TOB/TOC 7.35 1010 53.0 Clear Light None

PURGING EQUIPMENT/I.D. #
- ☐ Bailer:_____
- ☐ Airlift Pump:_____
- ☑ Centrifugal Pump:_____
- ☐ Dedicated:_____
- ☐ Other:_____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: DISPOS
- ☐ Dedicated:_____
- ☐ Other:_____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
1732W1	3-13-02	1030	3	40ml	VOA	HCL	GAS-BTEX-MTBE

REMARKS: DO: 1.8

SIGNATURE: _____

the igroup

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

❑ [redacted]
❑ 1455 McDowell Blvd. North, Suite D • **Petaluma, CA 94954** • (707) 792-1865 • FAX (707) 792-0342
❑ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
❑ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
❑ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group
Project: 801803 ARCO 608
Mailing Address: 1921 Ringwood Av
Address (if different): 17601 Hesperian Blvd
City: San Jose State: CA Zip Code: 95131
San Lorenzo CA.
Telephone: (408) 453-7300 Fax #: (408) 437-9526
P.O. #: 2415200 Client: Paul Supple
Report To: Shaw Garakani E-Mail:
QC Data: ❑ Level II (Standard) ❑ Level III ❑ Level IV
Sampler: Pedro E Ruiz Date / Time Results Required:
Sequoia's Work Order #

Turnaround Time: ☒ 10 - 15 Working Days (Standard TAT) ❑ 7 Working Days ❑ 5 Working Days ❑ 72 Hours ❑ 48 Hours ❑ 24 Hours ❑ 2-8 Hours

MANDATORY:
❑ **SDWA (Drinking Water)**
☒ **CWA (Waste Water)**
❑ **RCRA (Hazardous Waste)**
❑ **Other**

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Gas/BTEX	MTBE									Comments/ Temp.(If required)
1. MW22	3-13-02 9:00	W	3	Voa 40ml HCL		X	X									*Run
2. MW-23	9:05	↓	↓	↓		↓	↓									8260 MTBE
3. MW25	13:10															Confirmation
4. MW26	10:45															on this
5. E1-A	13:45															wells w/
*6. 17349VM	10:00															hits >35ppb
*7. 17372VM	10:30															
8.																
9.																
10.																

Relinquished By:	Received By:	Date / Time:
[signature] 3-13-02 17:00		

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment ________ Page ____ of ____

Pink - Client Yellow - Sequoia White - Sequoia

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

❑ [redacted] • [redacted] CA [redacted] • ([redacted]776-[redacted] • F[redacted]08) [redacted]530[redacted]
❑ 1455 McDowell Blvd. North, Suite D • **Petaluma, CA 94954** • (707) 792-1865 • FAX (707) 792-0342
❑ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
❑ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
❑ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group		Project: 821803 ARCO 608	
Mailing Address: 1921 Ringwood Ave.		[redacted] Address (if different): 17601 Hesperian Blvd	
City: San Jose	State: CA	Zip Code: 95131	San Lorenzo CA
Telephone: 408/453-7300	Fax #: 408/437-9622	P.O. #: 21150200 Client: Paul Supple	
Report To: Shaw Charakani	E-Mail:	QC Data: ❑ Level II (Standard) ❑ Level III ❑ Level IV	
Sampler: Pedro Ruiz	Date / Time Results Required:	Sequoia's Work Order #	

Turnaround Time:
- ~~❑~~ 10 - 15 Working Days (Standard TAT)
- ❑ 7 Working Days
- ❑ 5 Working Days
- ❑ 72 Hours
- ❑ 48 Hours
- ❑ 24 Hours
- ❑ 2-8 Hours

MANDATORY:
- ❑ SDWA (Drinking Water)
- ☒ CWA (Waste Water)
- ❑ RCRA (Hazardous Waste)
- ❑ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Gas/BTEX MTBE									Comments/ Temp.(If required)
1. MW5	3/13/02 13:35	W	3	40ml VOA Vial		X	X								
2. MW-8	12:05														
3. MW-9	11:45														
4. MW-10	12:25														
5. MW-11	11:05														
6. MW-14	11:10														
7. MW-15	10:50														
8. MW-16	10:10														
9. MW-18	9:55														
10. MW-21	9:35														

Relinquished By:	3/13/02 17:00	Received By:	Date / Time:
Relinquished By:		Received By:	Date / Time:
Relinquished By:		Received By:	Date / Time
Relinquished By:		Received By:	Date / Time:

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment _____ Page _____ of _____

Pink - Client
Yellow - Sequoia
White - Sequoia

ATTACHMENT C

REMEDIAL SYSTEM PERFORMANCE EVALUATION

groundwater elevation map (Figure 2 of the Quarterly Groundwater Monitoring Report) and the TPPH-g, benzene, and MtBE concentrations map (Figure 3 of the Quarterly Groundwater Monitoring Report) from the current quarterly groundwater monitoring event with those from previous monitoring events. Upon completing the above comparisons, Shaw concludes that MtBE concentrations at onsite wells EA-1 and MW-5 and offsite well MW-8 has risen this quarter. Therefore, Shaw will closely monitor MtBE concentrations at the above well during the future quarters and recommend additional measures if necessary to achieve migration control objectives.

Mass Reduction

Progress toward meeting the mass reduction objective is determined by evaluating GWET system mass removal data and the concentration trends in nearby groundwater monitoring wells. GWE system operational data are collected monthly. The system flow and influent sample analysis data are used to estimate mass removal values. Performance data for the GWET system are presented in Table C-1. GWET system certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment D of this report. Progress toward site remediation is presented in the following table.

	Mass Removed			
Technology	12/11/01 to 3/5/02		Cumulative	
Analyte	(lbs)	(gal)	(lbs)	(gal)
Groundwater Extraction				
TPPH-g	0.07	0.01	6.48	1.06
Benzene	0.000	0.00	0.31	0.04
MtBE*	0.22	0.03	1.96	0.27

lbs = Pounds
gal = Gallons
TPPH-g = Total purgeable petroleum hydrocarbons calculated as gasoline
* = MtBE was not calculated prior to 06/15/00

Graphs of TPPH-g and benzene mass removal rates and concentrations versus time are shown on Figures C-1 and C-2, respectively. Graphical presentations of MtBE mass removal rate and concentration versus time are shown on Figures C-3 and C-4, respectively.

Groundwater Extraction System Operational Data

The GWET system was approximately 73 percent operational during the reporting period. Down time was due to regular system maintenance and the being system being shut down resulting from PG&E interrupting electrical service. During the reporting period, the GWE system discharged treated groundwater at an average flow rate of approximately 2.0 gallons per minute (gpm) for a period discharge of 166,930 gallons. Treatment system analytical data are presented in Table C-2.

During the reporting period, Shaw continued the biologic growth control procedure by adding hydrogen peroxide to the extraction well on a monthly basis and back-washing the GAC vessels on as-needed basis.

During this quarter, the GWE system was in compliance with all conditions stipulated in the discharge permit, including pH, total suspended solids, and chemical oxygen demand. Operation and maintenance field data sheets and certified analytical reports are presented as Attachment D of this report.

Table C-1
Groundwater Extraction System Performance Data

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline: Influent Concentration (µg/L)	TPPH as Gasoline: Net Removed (pounds)	TPPH as Gasoline: Removed To Date (pounds)	Benzene: Influent Concentration (µg/L)	Benzene: Net Removed (pounds)	Benzene: Removed To Date (pounds)	MtBE: Influent Concentration (µg/L)	MtBE: Net Removed (pounds)	MtBE: Removed To Date (pounds)	Primary MtBE Carbon Loading (%)
09/25/91	0	N/A	0	0	0.0	ND	N/A	0.00	N/A	0.000	0.00	N/A	N/A	N/A	0.0
09/26/91	N/A	N/A	1,144	1,144	N/A	38	0.00	0.00	4.8	0.000	0.00	N/A	N/A	N/A	0.0
10/22/91	26	96	12,844	11,700	7.6	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
11/22/91	77	93	52,532	39,688	13.0	ND	N/A	0.00	0.52	0.000	0.00	N/A	N/A	N/A	0.0
12/19/91	322	62	122,540	70,008	4.8	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
01/16/92	994	0	283,289	160,749	4.0	ND	N/A	0.00	ND	0.000	0.00	N/A	N/A	N/A	0.0
02/19/92	1,809	0	485,200	201,911	4.1	370	0.31	0.31	14	0.012	0.01	N/A	N/A	N/A	0.4
03/17/92	2,462	0	662,847	177,647	4.5	160	0.39	0.70	18	0.024	0.04	N/A	N/A	N/A	0.9
04/15/92	3,150	1	851,100	188,253	4.6	200	0.28	0.99	11	0.023	0.06	N/A	N/A	N/A	1.2
05/14/92	3,849	0	1,030,086	178,986	4.3	45	0.18	1.17	1.4	0.009	0.07	N/A	N/A	N/A	1.5
06/19/92	4,712	0	1,229,960	199,874	3.9	ND	N/A	1.17	ND	0.001	0.07	N/A	N/A	N/A	1.5
07/14/92	5,001	52	1,291,201	61,241	3.5	97	0.02	1.19	25.0	0.006	0.08	N/A	N/A	N/A	1.5
08/18/92	N/A	N/A	1,410,018	118,817	N/A	ND	N/A	1.19	ND	0.012	0.09	N/A	N/A	N/A	1.5
09/15/92	6,298	N/A	1,535,640	125,622	3.1	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
10/16/92	7,012	4	1,651,623	115,983	2.7	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
11/18/92	7,809	0	1,768,076	116,453	2.4	ND	N/A	1.19	ND	0.000	0.09	N/A	N/A	N/A	1.5
12/17/92	8,502	0	1,864,300	96,224	2.3	96	0.04	1.23	7.7	0.003	0.09	N/A	N/A	N/A	1.5
01/18/93	8,798	61	1,915,165	50,865	2.9	100	0.04	1.27	13	0.004	0.10	N/A	N/A	N/A	1.6
02/22/93	9,607	0	2,096,930	181,765	3.7	480	0.44	1.71	36	0.037	0.13	N/A	N/A	N/A	2.1
03/15/93	10,113	0	2,205,833	108,903	3.6	310	0.36	2.07	29	0.030	0.16	N/A	N/A	N/A	2.6
04/09/93	10,517	33	2,298,770	92,937	3.8	140	0.17	2.25	11	0.015	0.18	N/A	N/A	N/A	2.8
05/13/93	11,211	15	2,449,160	150,390	3.6	530	0.42	2.67	27	0.024	0.20	N/A	N/A	N/A	3.3
06/04/93	11,734	1	2,543,500	94,340	3.0	170	0.28	2.94	5.2	0.013	0.21	N/A	N/A	N/A	3.7
07/20/93	12,573	24	2,689,697	146,197	2.9	200	0.23	3.17	12	0.010	0.22	N/A	N/A	N/A	4.0
08/16/93	13,219	0	2,791,366	101,669	2.6	150	0.15	3.32	4.9	0.007	0.23	N/A	N/A	N/A	4.1
09/13/93	13,888	0	2,884,736	93,370	2.3	80	0.09	3.41	2.2	0.003	0.23	N/A	N/A	N/A	4.3
10/08/93	14,485	1	2,951,737	67,001	1.9	ND	0.02	3.43	ND	0.001	0.24	N/A	N/A	N/A	4.3
11/19/93	15,494	0	3,036,032	84,295	1.4	ND	0.00	3.43	ND	0.000	0.24	N/A	N/A	N/A	4.3
12/21/93	16,260	0	3,113,565	77,533	1.7	73	0.02	3.45	3.5	0.001	0.24	N/A	N/A	N/A	4.3
01/18/94	16,939	0	3,190,900	77,335	1.9	60	0.04	3.49	3.1	0.002	0.24	N/A	N/A	N/A	4.4
02/17/94	17,658	0	3,273,720	82,820	1.9	ND	0.02	3.51	2.5	0.002	0.24	N/A	N/A	N/A	4.4
03/15/94	18,235	7	3,344,249	70,529	2.0	ND	0.00	3.51	ND	0.001	0.24	N/A	N/A	N/A	4.4
04/21/94	18,849	31	3,418,537	74,288	2.0	110	0.03	3.55	7.8	0.002	0.24	N/A	N/A	N/A	4.4
05/13/94	19,351	5	3,478,910	60,373	2.0	230	0.09	3.63	8.3	0.004	0.25	N/A	N/A	N/A	4.5
06/14/94	19,680	57	3,518,608 a	39,698	2.0	230	0.08	3.71	12	0.003	0.25	N/A	N/A	N/A	4.6
07/14/94	20,145	35	3,574,408 b	55,800	2.0	270	0.12	3.83	6.9	0.004	0.26	N/A	N/A	N/A	4.8
08/17/94	20,920	5	51,260 c	91,580 c	2.0	ND	0.10	3.93	1.8	0.003	0.26	N/A	N/A	N/A	4.9
09/12/94	21,549	0	120,910	69,650	1.8	ND	0.00	3.93	ND	0.001	0.26	N/A	N/A	N/A	4.9
10/18/94	22,408	1	211,880	90,970	1.8	ND	0.00	3.93	ND	0.000	0.26	N/A	N/A	N/A	4.9
11/15/94	23,080	0	280,840	68,960	1.7	ND	0.00	3.93	0.66	0.000	0.26	N/A	N/A	N/A	4.9
12/05/94	23,489	15	325,830	44,990	1.8	470	0.09	3.99	32	0.006	0.27	N/A	N/A	N/A	5.0
01/04/95	24,205	1	408,740	82,910	1.9	ND	0.16	4.15	1.1	0.011	0.28	N/A	N/A	N/A	5.2
02/06/95	24,926	9	499,690	90,950	2.1	100	0.04	4.19	2.4	0.001	0.28	N/A	N/A	N/A	5.2
03/02/95	25,465	6	569,180	69,490	2.1	ND	0.03	4.22	ND	0.001	0.28	N/A	N/A	N/A	5.3
04/04/95	26,253	1	672,510	103,330	2.2	290	0.12	4.34	6.6	0.003	0.28	N/A	N/A	N/A	5.4
05/02/95	26,924	0	760,350	87,840	2.2	240	0.19	4.54	7.1	0.005	0.29	N/A	N/A	N/A	5.7
06/05/95	27,721	2	848,810	88,460	1.9	ND	0.09	4.62	ND	0.003	0.29	N/A	N/A	N/A	5.8 f
07/06/95	28,464	0	921,260	72,450	1.6	270	0.08	4.71	2.4	0.001	0.29	N/A	N/A	N/A	N/A g
08/21/95 d	29,568	0	993,320	72,060	1.1	230	0.15	4.86	1.8	0.001	0.29	N/A	N/A	N/A	N/A g
06/05/00 e	29,592	N/A	976,600	N/A	N/A	700	N/A	4.86	7.2	N/A	0.29	361	N/A	0.00	N/A g
06/05/00	29,593	0	979,800	3,200	2.1	700	0.02	4.88	7.2	0.000	0.29	361	0.01	0.01	N/A g
07/08/00	30,352	4	1,131,560	151,760	3.3	133	0.53	5.40	5.1	0.008	0.30	272	0.40	0.41	N/A g
08/07/00	30,955	16	1,228,240	96,680	2.7	144	0.11	5.51	2.8	0.003	0.30	126	0.16	0.57	N/A g
09/08/00	31,528	25	1,306,300	78,060	2.3	261	0.13	5.65	2.7	0.002	0.30	120	0.08	0.65	N/A g
10/10/00	32,230	9	1,393,820	87,520	2.1	114	0.14	5.78	ND	0.001	0.31	ND	0.04	0.69	N/A g
11/07/00	32,880	3	1,472,930	79,110	2.0	128	0.08	5.86	ND	0.000	0.31	98.6	0.03	0.73	N/A g
12/05/00	33,516	5	1,548,840	75,910	2.0	167	0.09	5.96	0.775	0.000	0.31	104	0.06	0.79	N/A g
01/04/01	33,924	43	1,595,340	46,500	1.9	ND	0.03	5.99	ND	0.000	0.31	86.8	0.04	0.83	N/A g
02/06/01	34,556	20	1,672,330	76,990	2.0	203	0.07	6.05	0.572	0.000	0.31	80.5	0.05	0.88	N/A g
03/08/01	34,776	70	1,698,860	26,530	2.0	219	0.05	6.10	ND	0.000	0.31	81.0	0.02	0.90	N/A g
03/24/01	35,088	19	1,741,170	42,310	2.3	NS †	0.07	6.17	NS †	0.000	0.31	NS †	0.03	0.93	N/A g
04/18/01	35,335	59	1,770,860	29,690	2.0	74.5	0.04	6.21	ND	0.000	0.31	97.5	0.02	0.95	N/A g
05/04/01	35,716	0	1,812,690	41,830	1.8	63.3	0.02	6.23	ND	0.000	0.31	93.2	0.03	0.98	N/A g
06/09/01	36,345	27	1,879,710	67,020	1.8	64	0.04	6.27	ND	0.000	0.31	71	0.05	1.03	N/A g
07/05/01 h	36,469	80	1,897,180	17,470	2.3	100	0.01	6.28	ND	0.000	0.31	430	0.04	1.07	N/A g
08/14/01 h	36,822	63	1,928,510	31,330	1.5	290	0.05	6.33	2.2	0.000	0.31	870	0.17	1.24	N/A g
09/05/01	37,219	25	1,977,050	48,540	2.0	ND(100)	0.06	6.39	ND(1.0)	0.000	0.31	340	0.24	1.48	N/A g

Table C-1
Groundwater Extraction System Performance Data

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Influent Sample Date	Hour Meter Reading (hours)	System Down Time (%)	Volume Reading (gallons)	Net Volume (gallons)	Average Flow (gpm)	TPPH as Gasoline: Influent Concentration (µg/L)	TPPH as Gasoline: Net Removed (pounds)	TPPH as Gasoline: Removed To Date (pounds)	Benzene: Influent Concentration (µg/L)	Benzene: Net Removed (pounds)	Benzene: Removed To Date (pounds)	MtBE: Influent Concentration (µg/L)	MtBE: Net Removed (pounds)	MtBE: Removed To Date (pounds)	Primary MtBE Carbon Loading (%)	
10/05/01	37,932	0	2,040,950	63,900	1.5	ND	0.00	6.39	ND	0.000	0.31	150	0.13	1.61	N/A	g
11/13/01	38,820	0	2,119,670	78,720	1.5	ND	0.00	6.39	ND	0.000	0.31	92	0.08	1.69	N/A	g
12/11/01	39,496	0	2,186,530	66,860	1.6	65	0.02	6.41	ND	0.000	0.31	83	0.05	1.74	N/A	g
01/04/02	40,063	0	2,248,700	62,170	1.8	ND(50)	0.02	6.43	ND	0.000	0.31	140	0.06	1.80	N/A	g
02/05/02	40,830	0	2,333,090	84,390	1.8	100	0.04	6.46	ND	0.000	0.31	190	0.12	1.91	N/A	g
03/05/02	40,968	79	2,353,460	20,370	2.5	150	0.02	6.48	ND(1.2)	0.000	0.31	350	0.05	1.96	N/A	g

REPORTING PERIOD:	**12/11/01 - 3/5/02**		
TOTAL GALLONS EXTRACTED:	**5,984,908**		
PERIOD GALLONS EXTRACTED:	**166,930**		
TOTAL POUNDS REMOVED:	**6.48**	**0.31**	**1.96**
TOTAL GALLONS REMOVED:	**1.06**	**0.04**	**0.27**
AVERAGE PERIOD FLOW RATE (gpm):	**2.0**		
PERIOD PERCENT OPERATIONAL:	**73%**		
PERIOD POUNDS REMOVED:	**0.07**	**0.000**	**0.22**
PERIOD GALLONS REMOVED:	**0.01**	**0.000**	**0.03**

TPPH = Total purgeable petroleum hydrocarbons
gpm = Gallons per minute
µg/L = Micrograms per liter
N/A = Not available or not applicable
ND = Not detected above detection limit
NS = Not sampled
† = Assume same concentration as prior sampling event

Densities: Gasoline = 6.1 lbs/gallon; Benzene = 7.34 lbs/gallon.
MtBE not quantified prior to 6/5/00

a. Totalizer broken, volume estimated from hourmeter and flow rate.
b. Volume estimated from hourmeter and instantaneous flow rate.
c. Sewer totalizer replaced July 28, 1994; volume discharged estimated between July 14 and 28, 1994 at 2.0 gpm.
d. GWE system temporarily shut down August 21, 1995.
e. GWE system restarted June 5, 2000.
f. Prior to June 5, 2000 primary carbon loading for benzene estimated using isotherm of 8 percent by weight.
g. Cannot predict Primary carbon MtBE loading because MtBE wasn't tracked prior to 6/5/00.
h. System down during construction to main sewer line from approx. 6/25/01; restarted 8/14/01.

Equations: Net Dissolved TPH-g Removed [pounds] = TPH-g concentration, [ug/L] x net volume (gallon) x density of gasoline [pound/gallon]
(Net dissolved TPH-g removed is calculated by averaging influent concentrations)

Table C-2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
INFL (influent to primary carbon)									
09/26/91	38	4.8	0.6	1.6	1.1	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
11/22/91	<30	0.5	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	370	14	0.34	14	2.4	NS	NS	NS	NA
03/17/92	160	18	0.32	0.56	1.6	NS	NS	NS	NA
04/15/92	200	11	<0.3	7.3	0.77	NS	NS	NS	NA
05/14/92	45	1.4	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	97	25	<0.5	8.5	<0.5	NS	NS	NS	NA
08/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/15/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/16/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/17/92	96	7.7	13	0.56	9.7	NS	NS	NS	NA
01/18/93	100	13	6.6	1.1	11	NS	NS	NS	NA
02/22/93	480	36	29	4.9	96	NS	NS	NS	NA
03/15/93	310	29	14	4.9	55	NS	NS	NS	NA
04/09/93	140	11	2.8	2.6	17	NS	NS	NS	NA
05/13/93	530	27	12	18	96	NS	NS	NS	NA
06/04/93	170	5.2	1.6	2.5	23	NS	NS	NS	NA
07/20/93	200	12	0.91	8.2	29	NS	NS	NS	NA
08/16/93	150	4.9	0.63	2.9	15	NS	NS	NS	NA
09/13/93	80	2.2	<0.5	<0.5	4.8	NS	NS	NS	NA
10/08/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/19/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/21/93	73	3.5	<0.5	1.9	8.4	NS	NS	NS	NA
01/18/94	60	3.1	<0.5	3.2	4.3	NS	NS	NS	NA
02/17/94	<50	2.5	<0.5	2.1	3.1	NS	NS	NS	NA
03/15/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/21/94	110	7.8	<1.0	9.6	<1.0	NS	NS	NS	NA
05/13/94	230	8.3	<0.5	14	6.0	NS	NS	NS	NA
06/14/94	230	12	<0.5	16	1.5	NS	NS	NS	NA
07/14/94	270	6.9	<0.5	15	1.9	NS	NS	NS	NA
08/18/94	<50	1.8	<0.5	1.5	<0.5	NS	NS	NS	NA
09/12/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/05/94	<50	0.66	<0.5	2.6	<0.5	NS	NS	NS	NA
12/05/94	470	32	0.59	29	6.2	NS	NS	NS	NA
01/04/95	<50	1.1	<0.50	1.4	<0.50	NS	NS	NS	NA
02/06/95	100	2.4	1.1	1.2	2.8	NS	NS	NS	NA
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
04/04/95	290	6.6	<0.50	10	1.7	NS	NS	NS	NA
05/02/95	240	7.1	<0.50	3.2	1.6	NS	NS	NS	NA
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
07/06/95	270	2.4	<0.50	7.6	1.0	NS	NS	NS	NA
08/21/95	230	1.8	<0.50	1.6	0.9	NS	NS	NS	NA
06/05/00	700	7.24	<1.00	2.11	<1.00	361	NS	NS	NA
07/08/00	133	5.09	0.598	<0.500	<0.500	272	NS	NS	NA
08/10/00	144	2.80	<0.500	1.04	<0.500	126	NS	NS	NA

Table C-2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
INFL (influent to primary carbon) (cont.)									
09/08/00	261	2.74	0.826	0.626	<0.500	120	NS	NS	NA
10/10/00	114	<0.500	1.68	0.843	<0.500	<2.50	NS	NS	NA
11/07/00	128	<0.500	<0.500	<0.500	<0.500	98.6	NS	NS	NA
12/05/00	167	0.775	<0.500	<0.500	<0.500	104	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	86.8	NS	NS	NA
02/06/01	203	0.572	<0.500	0.513	<0.500	80.5	NS	NS	NA
03/08/01	219	<0.500	6.16	1.21	0.682	81.0	NS	NS	NA
04/18/01	74.5	<0.500	<0.500	<0.500	<0.500	97.5	NS	NS	NA
05/04/01	63.3	<0.500	<0.500	<0.500	<0.500	93.2	NS	NS	NA
06/09/01	64	<0.50	<0.50	<0.50	<0.50	71	NS	NS	NA
07/05/01	100	<0.50	2.5	<0.50	<0.50	430	NS	NS	NA
08/14/01	290	2.2	3.5	<1.0	<1.0	870	NS	NS	NA
09/05/01	<100	<1.0	<1.0	<1.0	<1.0	340	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	150	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	92	NS	NS	NA
12/11/01	65	<0.50	0.58	<0.50	<0.50	83	NS	NS	NA
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	140	NS	NS	NA
02/05/02	100	<0.50	<0.50	<0.50	<0.50	190	NS	NS	NA
03/05/02	150	<1.2	<1.2	<1.2	<1.2	350	NS	NS	NA
MID-1 (between primary and secondary carbons)									
09/26/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
03/17/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
04/15/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
05/14/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/15/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/16/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/18/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/17/92	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/18/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/22/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/15/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/09/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/13/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/04/93	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/14/94	ND	ND	ND	ND	ND	NS	NS	NS	NA
08/17/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/12/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/18/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/94	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
02/06/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/02/95	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA

Table C-2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
MID-1 (cont.)									
07/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
08/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NS	NS	NA
09/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
10/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
11/07/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
12/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	3.3	NS	NS	NA
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	5.7	NS	NS	NA
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	9.0	NS	NS	NA
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	26	NS	NS	NA
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	17	NS	NS	NA
MID-2 (between secondary and teriary carbons)									
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
07/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
09/08/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
10/10/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/07/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/05/00	NS	NS	NS	NS	NS	NS	NS	NS	NA
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	NA
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NS	NS	NA
EFFL (effluent to sewer)									
09/26/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
10/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
11/22/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
12/19/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
01/16/91	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
02/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
03/17/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA

Table C-2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
EFFL (effluent to sewer) (cont.)									
04/15/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
05/14/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
06/19/92	<30	<0.3	<0.3	<0.3	<0.3	NS	NS	NS	NA
07/14/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/15/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/16/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/18/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/17/92	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/18/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
02/22/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
03/15/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/09/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
05/13/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
06/04/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
07/20/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/16/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/13/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/08/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/19/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/21/93	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
02/17/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
03/15/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
04/21/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
05/13/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
06/14/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
07/14/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
08/17/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
09/12/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
10/18/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
11/05/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
12/05/94	<50	<0.5	<0.5	<0.5	<0.5	NS	NS	NS	NA
01/04/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
02/06/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
04/04/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
05/02/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
07/06/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
08/21/95	<50	<0.50	<0.50	<0.50	<0.50	NS	NS	NS	NA
06/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NS	NS	7.19
06/12/00	<50.0	NS	NS	NS	NS	NS	NS	NS	NA
07/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	32.1	<10.0	7.08
08/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	23.4	<10.0	6.67
09/08/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	29.2	<10.0	6.82
10/10/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.25
11/07/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.24
12/05/00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	44.0	<10.0	7.48
01/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.00
02/06/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	10.7	7.03
03/08/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.04
04/18/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	28.5	<10.0	7.06

Table C-2
Treatment System Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline and BTEX Compounds)

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MtBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)
EFFL (effluent to sewer) (cont.)									
05/04/01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<20.0	<10.0	7.31
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.05
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.10
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	14	7.09
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	70	<10	7.07
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	55	<10	6.89
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	150	<10	6.98
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.01
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	52	<10	7.22
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.91
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.77

TPPH = Total purgeable petroleum hydrocarbons
MtBE = Methyl tert Butyl Ether
COD = Chemical oxygen demand
TSS = Total suspended solids
µg/L = Micrograms per liter
mg/L = Miligrams per liter
< = Denotes minimum laboratory detection limit.
NA = Not applicable or not available
NS = Not sampled
ND = Not detected

Figure C-1

Groundwater Extraction System Mass Removal Trend

TPPH-g and Benzene

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

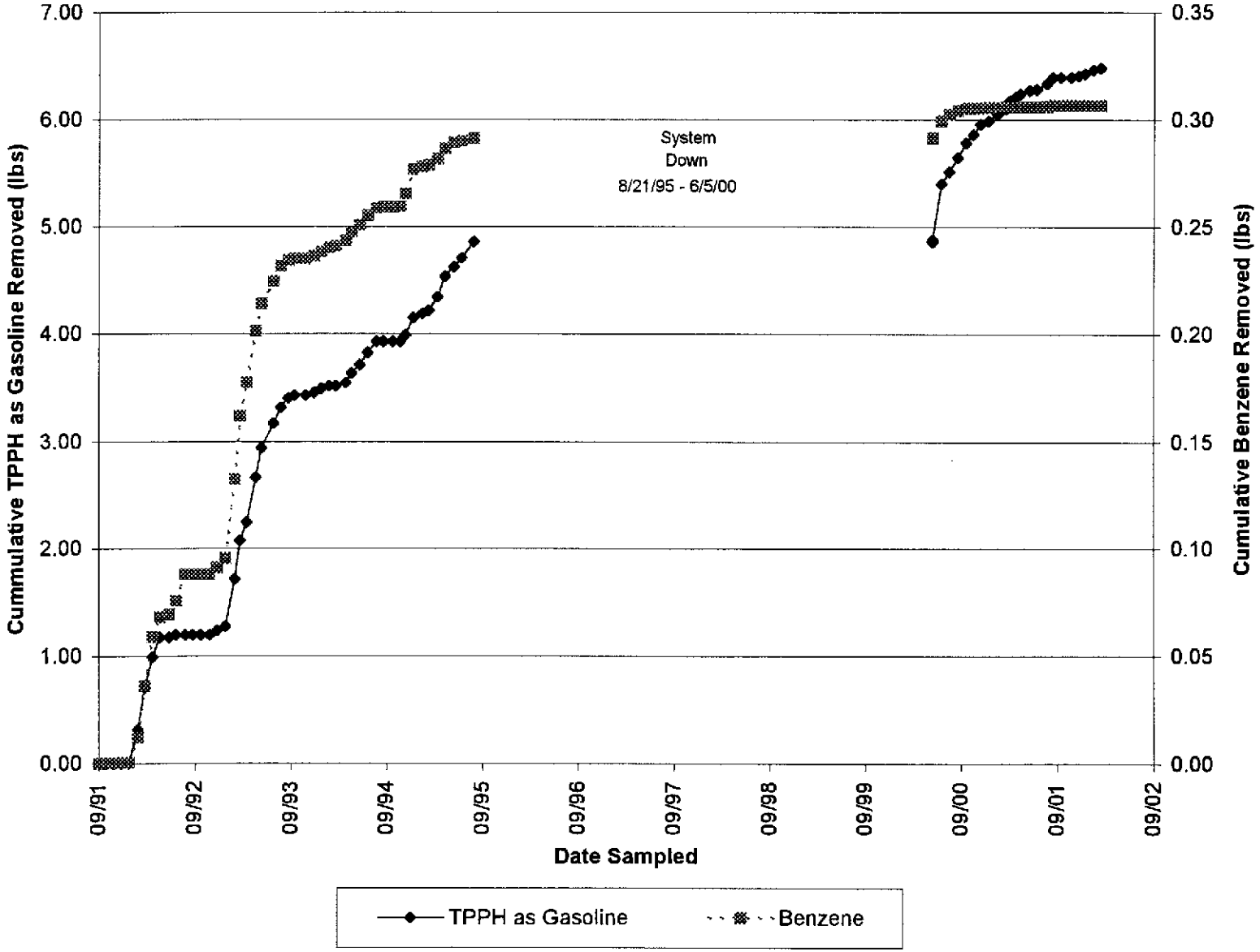


Figure C-2
Groundwater Extraction System Concentration Trend
TPPH-g and Benzene

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

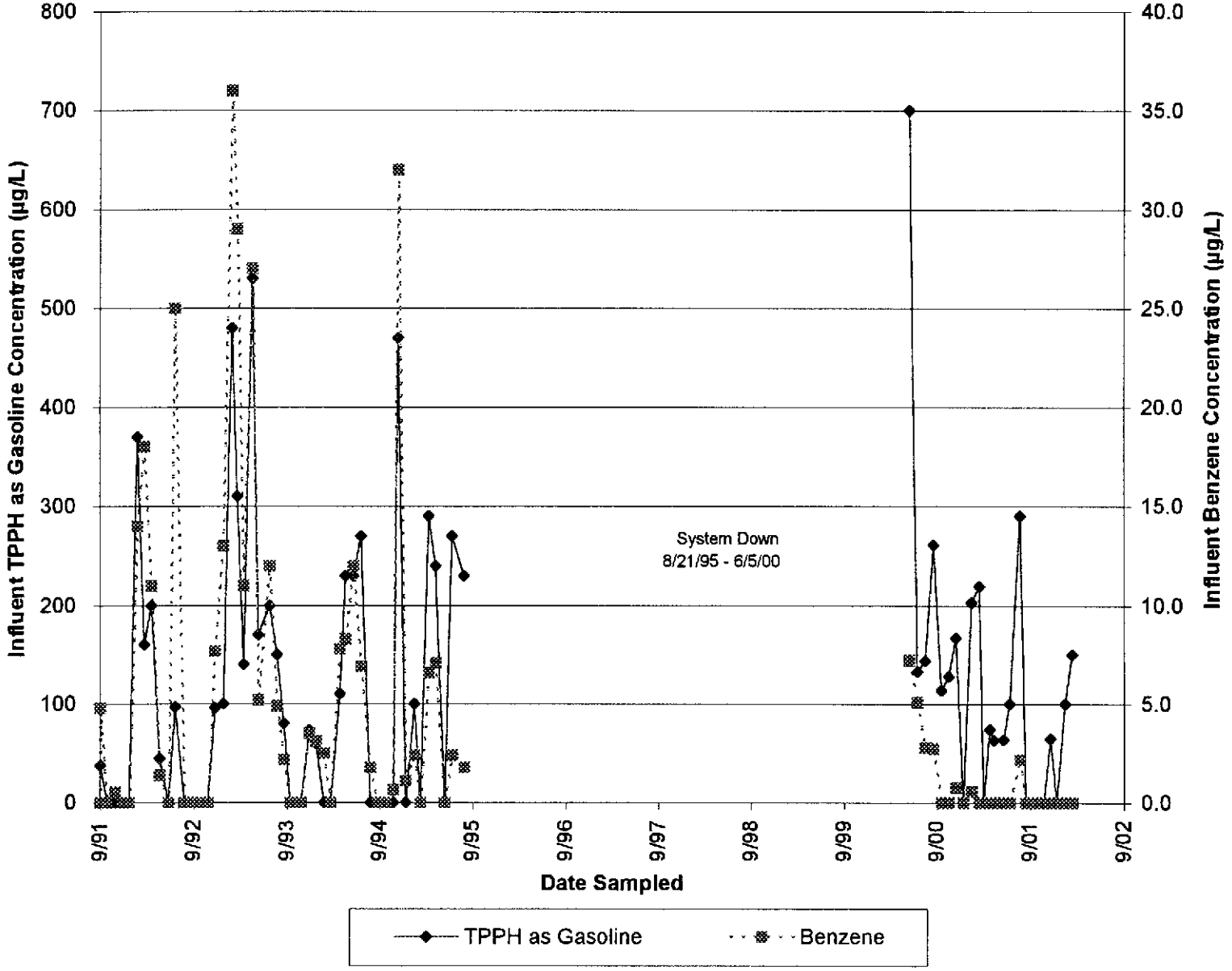
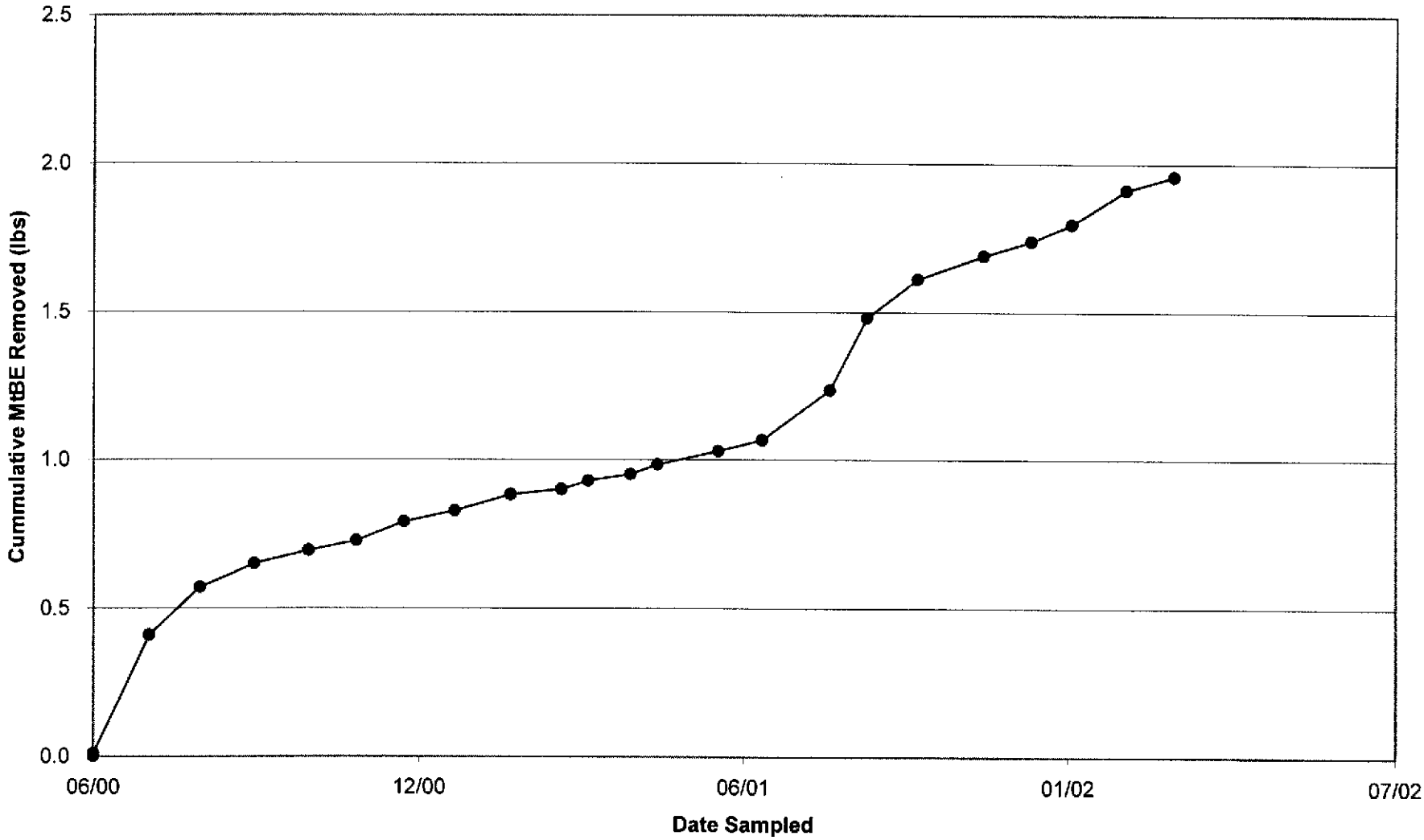


Figure C-3
Groundwater Extraction System Mass Removal Trend
MtBE

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California



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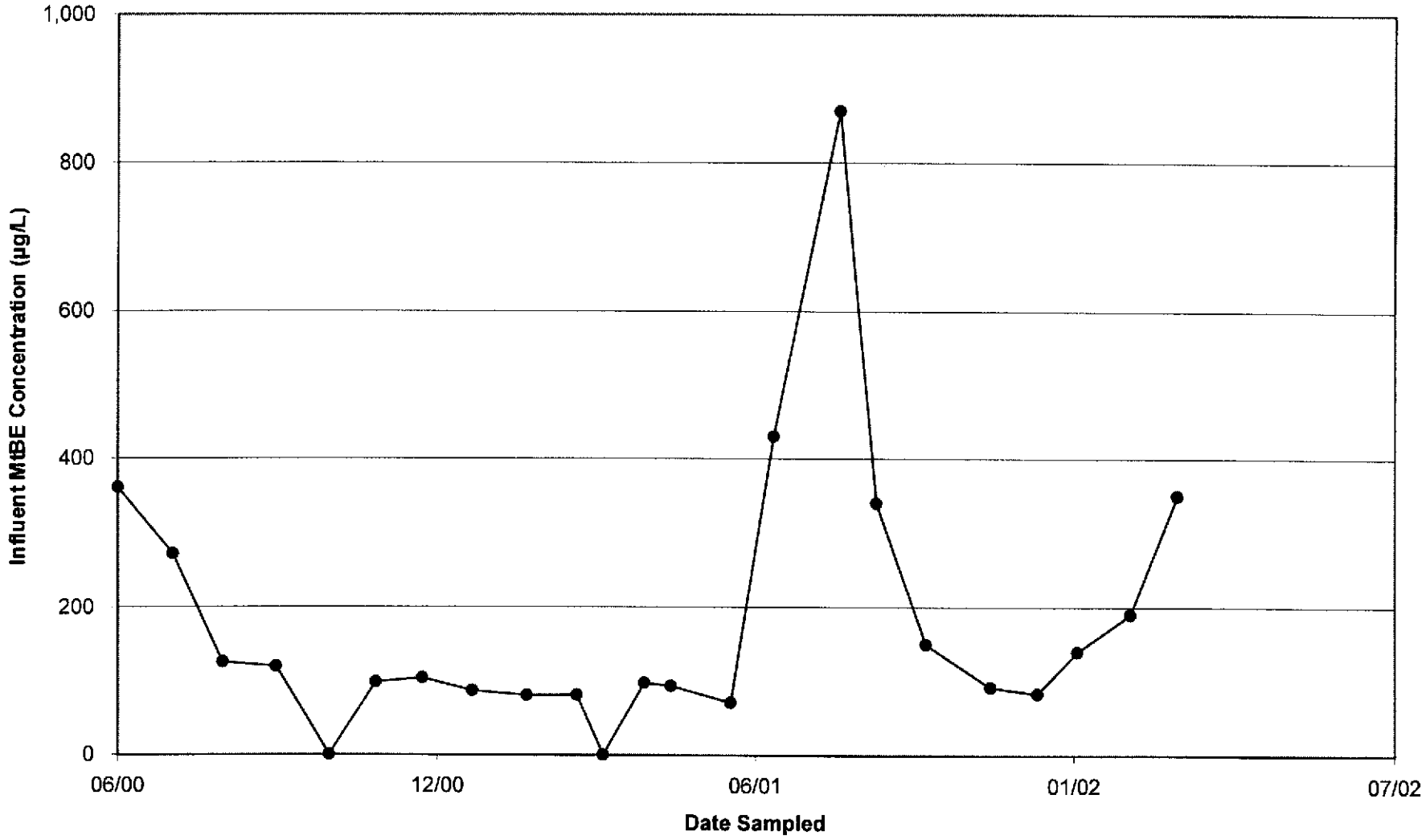
6/27/02

Figure C-4
Groundwater Extraction System Concentration Trend
MtBE

ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California



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6/27/02

ATTACHMENT D

CERTIFIED ANALYTICAL REPORTS, CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD DATA SHEETS FOR GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

Sequoia Analytical

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

21 March 2002

Don Watenpaugh
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608, San Lorenzo,Ca

Enclosed are the results of analyses for samples received by the laboratory on 03/07/02 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

Sequoia Analytical
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported:
03/21/02 06:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MLC0223-01	Water	03/05/02 08:15	03/07/02 14:20
MID-1	MLC0223-02	Water	03/05/02 08:20	03/07/02 14:20
MID-2	MLC0223-03	Water	03/05/02 08:25	03/07/02 14:20
EFFL	MLC0223-04	Water	03/05/02 08:30	03/07/02 14:20

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

Sequoia Analytical - Morgan Hill

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.

Antonya K. Pelt

Antonya Pelt, Project Manager

Sequoia Analytical
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo, Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported: 03/21/02 06:41

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MLC0223-01) Water Sampled: 03/05/02 08:15 Received: 03/07/02 14:20									
Gasoline Range Organics (C6-C10)	**150**	120	ug/l	2.5	2C19009	03/19/02	03/19/02	8015Bm/8021B	P-03
Benzene	ND	1.2	"	"	"	"	"	"	
Toluene	ND	1.2	"	"	"	"	"	"	
Ethylbenzene	ND	1.2	"	"	"	"	"	"	
Xylenes (total)	ND	1.2	"	"	"	"	"	"	
Methyl tert-butyl ether	**350**	6.2	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.7 %*	*70-130*	"	"	"	"		
MID-1 (MLC0223-02) Water Sampled: 03/05/02 08:20 Received: 03/07/02 14:20									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C15001	03/15/02	03/15/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**17**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*	"	"	"	"		
MID-2 (MLC0223-03) Water Sampled: 03/05/02 08:25 Received: 03/07/02 14:20									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C15001	03/15/02	03/15/02	8015Bm/8021B	
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		*105 %*	*70-130*	"	"	"	"		

Sequoia Analytical - Morgan Hill

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.

Antonya K. Pelt

Antonya Pelt, Project Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 770-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported:
03/21/02 06:41

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLC0223-04) Water Sampled: 03/05/02 08:30 Received: 03/07/02 14:20									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2C15001	03/15/02	03/15/02	8015Bm/8021B	
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		*104 %*	*70-130*	"	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

Sequoia Analytical
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported:
03/21/02 06:41

Conventional Chemistry Paramcters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLC0223-04) Water Sampled: 03/05/02 08:30 Received: 03/07/02 14:20									
Chemical Oxygen Demand	ND	20	mg/l	1	2C11026	03/11/02	03/11/02	EPA 410.4	
Total Suspended Solids	ND	10	"	"	2C16027	03/12/02	03/12/02	EPA 160.2	

Sequoia Analytical - Morgan Hill

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Latonya Pelt, Project Manager

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Morgan Hill, CA 95037
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FAX (408) 782-6308
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Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported:
03/21/02 06:41

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C15001 - EPA 5030B [P/T]										
Blank (2C15001-BLK1)				Prepared & Analyzed: 03/15/02						
Gasoline Range Organics (C6-C10)	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	*10.4*		"	*10.0*		*104*	*70-130*			
LCS (2C15001-BS1)				Prepared & Analyzed: 03/15/02						
Benzene	11.0	0.50	ug/l	10.0		110	70-130			
Toluene	10.9	0.50	"	10.0		109	70-130			
Ethylbenzene	11.1	0.50	"	10.0		111	70-130			
Xylenes (total)	33.1	0.50	"	30.0		110	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.6*		"	*10.0*		*106*	*70-130*			
LCS (2C15001-BS2)				Prepared & Analyzed: 03/15/02						
Gasoline Range Organics (C6-C10)	274	50	ug/l	250		110	70-130			
Surrogate: a,a,a-Trifluorotoluene	*11.5*		"	*10.0*		*115*	*70-130*			
Matrix Spike (2C15001-MS1)	Source: MLC0280-01			Prepared & Analyzed: 03/15/02						
Gasoline Range Organics (C6-C10)	462	50	ug/l	550	ND	84.0	60-140			
Benzene	8.63	0.50	"	6.60	ND	131	60-140			
Toluene	38.5	0.50	"	39.7	ND	97.0	60-140			
Ethylbenzene	7.43	0.50	"	9.20	ND	80.8	60-140			
Xylenes (total)	48.7	0.50	"	46.1	ND	106	60-140			
Surrogate: a,a,a-Trifluorotoluene	*11.5*		"	*10.0*		*115*	*70-130*			
Matrix Spike Dup (2C15001-MSD1)	Source: MLC0280-01			Prepared & Analyzed: 03/15/02						
Gasoline Range Organics (C6-C10)	539	50	ug/l	550	ND	98.0	60-140	15.4	25	
Benzene	6.24	0.50	"	6.60	ND	94.5	60-140	32.1	25	QM-07
Toluene	42.0	0.50	"	39.7	ND	106	60-140	8.70	25	
Ethylbenzene	7.94	0.50	"	9.20	ND	86.3	60-140	6.64	25	
Xylenes (total)	50.9	0.50	"	46.1	ND	110	60-140	4.42	25	
Surrogate: a,a,a-Trifluorotoluene	*11.5*		"	*10.0*		*115*	*70-130*			

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

Sequoia Analytical

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

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported:
03/21/02 06:41

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C19009 - EPA 5030B [P/T]										
Blank (2C19009-BLK1)				Prepared & Analyzed: 03/19/02						
Gasoline Range Organics (C6-C10)	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	*8.46*		"	*10.0*		*84.6*	*70-130*			
LCS (2C19009-BS1)				Prepared & Analyzed: 03/19/02						
Benzene	8.55	0.50	ug/l	10.0		85.5	70-130			
Toluene	8.60	0.50	"	10.0		86.0	70-130			
Ethylbenzene	8.70	0.50	"	10.0		87.0	70-130			
Xylenes (total)	25.4	0.50	"	30.0		84.7	70-130			
ogate: a,a,a-Trifluorotoluene	*8.59*		"	*10.0*		*85.9*	*70-130*			
LCS (2C19009-BS2)				Prepared & Analyzed: 03/19/02						
Gasoline Range Organics (C6-C10)	241	50	ug/l	250		96.4	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.30*		"	*10.0*		*83.0*	*70-130*			
LCS Dup (2C19009-BSD1)				Prepared & Analyzed: 03/19/02						
Benzene	8.66	0.50	ug/l	10.0		86.6	70-130	1.28	25	
Toluene	8.62	0.50	"	10.0		86.2	70-130	0.232	25	
Ethylbenzene	8.74	0.50	"	10.0		87.4	70-130	0.459	25	
Xylenes (total)	25.6	0.50	"	30.0		85.3	70-130	0.784	25	
Surrogate: a,a,a-Trifluorotoluene	*8.75*		"	*10.0*		*87.5*	*70-130*			

Sequoia Analytical - Morgan Hill

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Atonya K. Pelt

Atonya Pelt, Project Manager

Sequoia Analytical

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

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 821803 #0608 ARCO
Project Manager: Don Watenpaugh

Reported:
03/21/02 06:41

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2C11026 - General Preparation										
Blank (2C11026-BLK1)				Prepared & Analyzed: 03/11/02						
Chemical Oxygen Demand	ND	20	mg/l							
LCS (2C11026-BS1)				Prepared & Analyzed: 03/11/02						
Chemical Oxygen Demand	106	20	mg/l	100		106	80-120			
Matrix Spike (2C11026-MS1)		Source: MLC0200-02		Prepared & Analyzed: 03/11/02						
Chemical Oxygen Demand	149	20	mg/l	100	65	84.0	75-125			
Matrix Spike Dup (2C11026-MSD1)		Source: MLC0200-02		Prepared & Analyzed: 03/11/02						
Chemical Oxygen Demand	181	20	mg/l	100	65	116	75-125	19.4	20	
Batch 2C16027 - General Preparation										
Blank (2C16027-BLK1)				Prepared & Analyzed: 03/12/02						
Total Suspended Solids	ND	10	mg/l							
Duplicate (2C16027-DUP1)		Source: MLC0223-04		Prepared & Analyzed: 03/12/02						
Total Suspended Solids	ND	10	mg/l		ND				20	

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

Sequoia Analytical

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

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 821803 #0608 ARCO	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	03/21/02 06:41

Notes and Definitions

P-03	Chromatogram Pattern: Unidentified Hydrocarbons C6-C10
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

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

[redacted] SEQUOIA ANALYTICAL [redacted]
CHAIN OF CUSTODY

☐ 865 Jarvis Drive • Mo[redacted]Hill, [redacted]503[redacted]408) [redacted]9600 • FAX (4[redacted]) 782-[redacted]
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group
Mailing Address: 1921 Ringwood Ave
City: San Jose State: CA Zip Code: 95131
Telephone: (408) 4537300 Fax #: (408) 4379526
Report To: Don Waterman E-Mail:
Sampler: Pedro E. Ruiz
Date / Time Results Required:

Project: 821803 #0608 Arco
[redacted] Address (if different): 17601 Hesperian Blvd San Lorenzo CA
P.O.#: Client: Paul Supple Arco
QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV
Sequoia's Work Order #: MLC0223

Turnaround Time: ☒ 10 - 15 Working Days (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☒ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	TPH Gas BTEX Compounds	MTBE	COD	TSS				Comments/ Temp.(if required)
1. INFL	3502 8:15	W	3	40ml VOA HCL	01	X	X						
2. MI01	8:00	↓	↓	↓	02	↓	↓						
3. MI02	8:20	↓	↓	↓	03	↓	↓						
4. EFFL	8:30	↓	5	40ml VOA HCL 1 L Poly 1 L H2SO4	04	↓	↓	X	X				
5.													
6.													
7.													
8.													
9.													
10.													

SEQUOIA ANALYTICAL

Relinquished By: [signature] IT Group 3502 15:10	Received By: WHS	Date / Time: 1345 3-7-2
Relinquished By: WHS	Received By: [signature]	Date / Time: 3-7-2 1420
Relinquished By:	Received By:	Date / Time
Relinquished By:	Received By:	Date / Time:

Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: [signature] Page 1 of 1

Sequoia
Analytical

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

22 February 2002

Don Watenpaugh
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608; San Lorenzo,Ca

Enclosed are the results of analyses for samples received by the laboratory on 02/06/02 18:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt

Latonya Pelt
Project Manager

Sequoia Analytical

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

Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose CA, 95131

Project: Facility 0608, San Lorenzo,Ca
Project Number: 17601 Hesperian Blvd
Project Manager: Don Watenpaugh

Reported:
02/22/02 06:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INF	MLB0123-01	Water	02/05/02 08:30	02/06/02 18:10
MID-1	MLB0123-02	Water	02/05/02 08:35	02/06/02 18:10
MID-2	MLB0123-03	Water	02/05/02 08:40	02/06/02 18:10
EFF1.	MLB0123-04	Water	02/05/02 08:45	02/06/02 18:10

Soquoia Analytical - Morgan Hill

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Latonya Pelt, Project Manager

Sequoia Analytical

885 Jarvis Drive
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 17601 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	02/22/02 06:34

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INF (MLB0123-01) Water Sampled: 02/05/02 08:30 Received: 02/06/02 18:10									
Gasoline Range Organics (C6-C10)	**100**	50	ug/l	1	2B14003	02/14/02	02/14/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**190**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*70-130*		"	"	"	"	
MID-1 (MLB0123-02) Water Sampled: 02/05/02 08:35 Received: 02/06/02 18:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2B14003	02/14/02	02/14/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**26**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.7 %*	*70-130*		"	"	"	"	
MID-2 (MLB0123-03) Water Sampled: 02/05/02 08:40 Received: 02/06/02 18:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2B14003	02/14/02	02/14/02	8015Bm/8021B	
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		*97.4 %*	*70-130*		"	"	"	"	

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

Sequoia Analytical
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Arco) 1921 Ringwood Avenue San Jose CA, 95131	Project: Facility 0608, San Lorenzo,Ca Project Number: 17601 Hesperian Blvd Project Manager: Don Watenpaugh	**Reported:** 02/22/02 06:34

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLB0123-04) Water Sampled: 02/05/02 08:45 Received: 02/06/02 18:10									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2B14003	02/14/02	02/14/02	8015Bm/8021B	
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		*91.6 %*		*70-130*	"	"	"	"	

Sequoia Analytical - Morgan Hill

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Latonya Pelt, Project Manager

Sequoia Analytical

680 Jarvis Drive
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Area)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 17601 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	02/22/02 06:34

Conventional Chemistry Paramcters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLB0123-04) Water	**Sampled: 02/05/02 08:45**	**Received: 02/06/02 18:10**							
Chemical Oxygen Demand	ND	20	mg/l	1	2B21033	02/21/02	02/21/02	EPA 410.4	
Total Suspended Solids	ND	10	"	"	2B13022	02/12/02	02/12/02	EPA 160.2	

Sequoia Analytical - Morgan Hill

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Latonya Pelt, Project Manager

Sequoia Analytical

885 Jarvis Drive
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group (Area)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 17601 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	02/22/02 06:34

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEXM by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2B14003 - EPA 5030B [P/T]										
Blank (2B14003-BLK1)				Prepared & Analyzed: 02/14/02						
Gasoline Range Organics (C6-C10)	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	*9.78*		"	*10.0*		*97.8*	*70-130*			
LCS (2B14003-BS1)				Prepared & Analyzed: 02/14/02						
Benzene	10.4	0.50	ug/l	10.0		104	70-130			
Toluene	9.86	0.50	"	10.0		98.6	70-130			
Ethylbenzene	9.20	0.50	"	10.0		92.0	70-130			
Xylenes (total)	28.1	0.50	"	30.0		93.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.0*		"	*10.0*		*100*	*70-130*			
LCS (2B14003-BS2)				Prepared & Analyzed: 02/14/02						
Gasoline Range Organics (C6-C10)	273	50	ug/l	250		109	70-130			
Surrogate: a,a,a-Trifluorotoluene	*11.6*		"	*10.0*		*116*	*70-130*			
Matrix Spike (2B14003-MS1)		Source: MLB0181-01		Prepared & Analyzed: 02/14/02						
Gasoline Range Organics (C6-C10)	591	50	ug/l	550	ND	107	60-140			
Benzene	8.57	0.50	"	6.60	ND	130	60-140			
Toluene	34.6	0.50	"	39.7	ND	87.2	60-140			
Ethylbenzene	7.78	0.50	"	9.20	ND	84.6	60-140			
Xylenes (total)	38.6	0.50	"	46.1	ND	83.7	60-140			
Surrogate: a,a,a-Trifluorotoluene	*12.6*		"	*10.0*		*126*	*70-130*			
Matrix Spike Dup (2B14003-MSD1)		Source: MLB0181-01		Prepared & Analyzed: 02/14/02						
Gasoline Range Organics (C6-C10)	614	50	ug/l	550	ND	112	60-140	3.82	25	
Benzene	9.03	0.50	"	6.60	ND	137	60-140	5.23	25	
Toluene	37.0	0.50	"	39.7	ND	93.2	60-140	6.70	25	
Ethylbenzene	8.25	0.50	"	9.20	ND	89.7	60-140	5.86	25	
Xylenes (total)	40.7	0.50	"	46.1	ND	88.3	60-140	5.30	25	
Surrogate: a,a,a-Trifluorotoluene	*12.3*		"	*10.0*		*123*	*70-130*			

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

Sequoia Analytical

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(408) 776-9600
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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 17601 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	02/22/02 06:34

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2B13022 - General Preparation										
Blank (2B13022-BLK1)				Prepared & Analyzed: 02/12/02						
Total Suspended Solids	ND	10	mg/l							
Duplicate (2B13022-DUP1)		Source: MLB0123-04		Prepared & Analyzed: 02/12/02						
Total Suspended Solids	ND	10	mg/l		ND				20	
Batch 2B21033 - General Preparation										
Blank (2B21033-BLK1)				Prepared & Analyzed: 02/21/02						
Chemical Oxygen Demand	ND	20	mg/l							
LCS (2B21033-BS1)				Prepared & Analyzed: 02/21/02						
Chemical Oxygen Demand	104	20	mg/l	100		104	80-120			
Matrix Spike (2B21033-MS1)		Source: MLB0123-04		Prepared & Analyzed: 02/21/02						
Chemical Oxygen Demand	136	20	mg/l	100	ND	136	75-125			QM-07
Matrix Spike Dup (2B21033-MSD1)		Source: MLB0123-04		Prepared & Analyzed: 02/21/02						
Chemical Oxygen Demand	124	20	mg/l	100	ND	124	75-125	9.23	20	

Sequoia Analytical - Morgan Hill

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.

Latonya K. Pelt

Latonya Pelt, Project Manager

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
1921 Ringwood Avenue	Project Number: 17601 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	02/22/02 06:34

Notes and Definitions

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

Sequoia Analytical - Morgan Hill

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Latonya K. Pelt

Latonya Pelt, Project Manager

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group | Project: Arco 608 821893
Mailing Address: 1921 Ringwood Av. | Address (if different): 17601 Hesperian Blvd
City: San Jose State: CA Zip Code: 95131 | San Lorenzo CA PM: Paul Supple
Telephone: (408) 4537300 Fax #: (408) 4537526 | P.O. #:
Report To: Dan Waterman E-Mail: | QC Data: ☒ Level II (Standard) ☐ Level III ☐ Level IV
Sampler: George E. Ruiz Date / Time Results Required: | Sequoia's Work Order # MLB0123

Turnaround Time: ☐ 10 - 15 Working Days (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☐ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	TPH gas	BTEX Compounds	MTBE	COD	TSS				Comments/ Temp.(if required)
1. IWF	2Feb02 8:30	W	3	Voa HCL	01	X	X	X						
2. MW-1	8:35				02	X	X	X						
3. MW-2	8:40				03	X	X	X						
4. EFFL	8:45		5	HCL		X	X	X	X	X				
5.														
6.														
7.														
8.														
9.														
10.														

Relinquished By: [signature] 2Feb02 11:10	Received By: [signature]	Date / Time: 2/4/02 11:10
Relinquished By:	Received By: WHS	Date / Time: 2-6-2 1400
Relinquished By: WHS	Received By: [signature]	Date / Time: 2-6-2 1610
Relinquished By:	Received By:	Date / Time:

Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: Sequoia Page 1 of 1

Pink - Client Yellow - Sequoia White - Sequoia

FEB-22-2002 08:25 99% P.10

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25 January, 2002

Don Watenpaugh
Pacific Environmental Group (Arco)
1921 Ringwood Avenue
San Jose, CA 95131

RE: Facility 0608, San Lorenzo,Ca
Sequoia Report: MLA0136

Enclosed are the results of analyses for samples received by the laboratory on 01/07/02 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron Porter For James Hartley
Project Manager

CA ELAP Certificate #1210

JAN-25-2002 12:40 20020125112357001792 97% P.03

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

ARCO

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- ☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group
Project: 821803 ARCO 0608
Mailing Address: 1921 Ringwood Av.
Billing Address (if different): 17601 Hesperian Blvd San Lorenzo. Paul Supple
City: San Jose State: CA Zip Code: 95131
Telephone: 408) 4537300 Fax #: 408) 4378526
P.O. #:
Report To: Don Weathers
E-Mail:
QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV
Sampler: Pedro E. Ruiz
Date / Time Results Required:
Sequoia's Work Order #: MLA0134

Turnaround Time: ☒ 10 - 15 Working Days (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☒ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☐ Other

ANALYSES REQUESTED (Please provide method): BTEX/TPH EPA 8020/8015; MTBE; COD; TSS

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	BTEX/TPH EPA 8020/8015	MTBE			COD	TSS				Comments/ Temp. (If required)
1. INFL	1-4-02 9:30	W	3	40ml HCl	01	X									
2. MI0-1	9:35				02										
3. MI0-2	9:40				03										
4. EFFL	9:45		5	40ml HCl, 1L Poly/Peed	04					X	X				
5.															
6.															
7.															
8.															
9.															
10.															

Per project per James 1/7/02

Relinquished By:	Received By:	Date / Time:
[signature] IT Group 1-4-02 1830	Don Weathers	1/7/02 7:45
Don Weathers	[signature]	1/7/02 1240
[signature]	[initials]	1/7/02 141[illegible]

Received in Good Condition? ☑ Yes ☐ No   Samples on Ice? ☑ Yes ☐ No   Method of Shipment: Sequoia   Page 1 of 1

Pink - Client   Yellow - Sequoia   White - Sequoia

Sequoia
Analytical

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
)21 Ringwood Avenue	Project Number: 17061 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	01/25/02 11:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
INFL	MLA0136-01	Water	01/04/02 09:30	01/07/02 14:15
MID-1	MLA0136-02	Water	01/04/02 09:35	01/07/02 14:15
MID-2	MLA0136-03	Water	01/04/02 09:40	01/07/02 14:15
EFFL	MLA0136-04	Water	01/04/02 09:45	01/07/02 14:15

Sequoia Analytical - Morgan Hill

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.

Aaron Porter For James Hartley, Project Manager

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
921 Ringwood Avenue	Project Number: 17061 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	01/25/02 11:16

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MLA0136-01) Water Sampled: 01/04/02 09:30 Received: 01/07/02 14:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A14001	01/14/02	01/14/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.1 %*	*70-130*		"	"	"	"	
MID-1 (MLA0136-02) Water Sampled: 01/04/02 09:35 Received: 01/07/02 14:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A14001	01/14/02	01/14/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.4 %*	*70-130*		"	"	"	"	
MID-2 (MLA0136-03) Water Sampled: 01/04/02 09:40 Received: 01/07/02 14:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A14001	01/14/02	01/14/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*73.6 %*	*70-130*		"	"	"	"	
EFFL (MLA0136-04) Water Sampled: 01/04/02 09:45 Received: 01/07/02 14:15									
Gasoline Range Organics (C6-C10)	ND	50	ug/l	1	2A14001	01/14/02	01/14/02	8015Bm/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.4 %*	*70-130*		"	"	"	"	

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	Reported:
921 Ringwood Avenue	Project Number: 17061 Hesperian Blvd	01/25/02 11:16
San Jose CA, 95131	Project Manager: Don Watenpaugh	

MTBE and BTEX by EPA 8021B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
INFL (MLA0136-01) Water Sampled: 01/04/02 09:30 Received: 01/07/02 14:15									
Methyl tert-butyl ether	**140**	2.5	ug/l	1	2A14001	01/14/02	01/14/02	DHS LUFT	Q-23,Q-28
Surrogate: a,a,a-Trifluorotoluene		*88.1 %*	*70-130*		"	"	"	"	
MID-1 (MLA0136-02) Water Sampled: 01/04/02 09:35 Received: 01/07/02 14:15									
Methyl tert-butyl ether	**9.0**	2.5	ug/l	1	2A14001	01/14/02	01/14/02	DHS LUFT	Q-23,Q-28
Surrogate: a,a,a-Trifluorotoluene		*86.4 %*	*70-130*		"	"	"	"	
MID-2 (MLA0136-03) Water Sampled: 01/04/02 09:40 Received: 01/07/02 14:15									
Methyl tert-butyl ether	ND	2.5	ug/l	1	2A14001	01/14/02	01/14/02	DHS LUFT	Q-23,Q-28
Surrogate: a,a,a-Trifluorotoluene		*73.6 %*	*70-130*		"	"	"	"	
EFFL (MLA0136-04) Water Sampled: 01/04/02 09:45 Received: 01/07/02 14:15									
Methyl tert-butyl ether	ND	2.5	ug/l	1	2A14001	01/14/02	01/14/02	DHS LUFT	Q-23,Q-28
Surrogate: a,a,a-Trifluorotoluene		*90.4 %*	*70-130*		"	"	"	"	

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
921 Ringwood Avenue	Project Number: 17061 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	01/25/02 11:16

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EFFL (MLA0136-04) Water	**Sampled: 01/04/02 09:45**	**Received: 01/07/02 14:15**							
Chemical Oxygen Demand	**52**	20	mg/l	1	2A15024	01/15/02	01/15/02	EPA 410.4	
Total Suspended Solids	ND	10	"	"	2A11018	01/10/02	01/11/02	EPA 160.2	

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
921 Ringwood Avenue	Project Number: 17061 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	01/25/02 11:16

Total Purgeable Hydrocarbons (C6-C10) by EPA 8015B modified, BTEX by EPA 8021B - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A14001 - EPA 5030B [P/T]										
Blank (2A14001-BLK1)				Prepared & Analyzed: 01/14/02						
Gasoline Range Organics (C6-C10)	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: a,a,a-Trifluorotoluene	*8.80*		"	*10.0*		*88.0*	*70-130*			
LCS (2A14001-BS1)				Prepared & Analyzed: 01/14/02						
Benzene	9.56	0.50	ug/l	10.0		95.6	70-130			
Toluene	9.12	0.50	"	10.0		91.2	70-130			
Ethylbenzene	9.52	0.50	"	10.0		95.2	70-130			
Xylenes (total)	30.1	0.50	"	30.0		100	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.09*		"	*10.0*		*90.9*	*70-130*			
LCS (2A14001-BS2)				Prepared & Analyzed: 01/14/02						
Gasoline Range Organics (C6-C10)	215	50	ug/l	250		86.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.86*		"	*10.0*		*88.6*	*70-130*			
Matrix Spike (2A14001-MS1)	**Source: MLA0158-01**			Prepared & Analyzed: 01/14/02						
Gasoline Range Organics (C6-C10)	450	50	ug/l	550	ND	81.8	60-140			
Benzene	8.14	0.50	"	6.60	ND	123	60-140			
Toluene	36.0	0.50	"	39.7	ND	90.7	60-140			
Ethylbenzene	8.59	0.50	"	9.20	ND	93.4	60-140			
Xylenes (total)	42.4	0.50	"	46.1	ND	92.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	*14.3*		"	*10.0*		*143*	*70-130*			*S-04*
Matrix Spike Dup (2A14001-MSD1)	**Source: MLA0158-01**			Prepared & Analyzed: 01/14/02						
Gasoline Range Organics (C6-C10)	438	50	ug/l	550	ND	79.6	60-140	2.70	25	
Benzene	8.13	0.50	"	6.60	ND	123	60-140	0.123	25	
Toluene	36.9	0.50	"	39.7	ND	92.9	60-140	2.47	25	
Ethylbenzene	8.65	0.50	"	9.20	ND	94.0	60-140	0.696	25	
Xylenes (total)	42.6	0.50	"	46.1	ND	92.4	60-140	0.471	25	
Surrogate: a,a,a-Trifluorotoluene	*14.3*		"	*10.0*		*143*	*70-130*			*S-04*

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Pacific Environmental Group (Arco)	Project: Facility 0608, San Lorenzo,Ca	
921 Ringwood Avenue	Project Number: 17061 Hesperian Blvd	**Reported:**
San Jose CA, 95131	Project Manager: Don Watenpaugh	01/25/02 11:16

MTBE and BTEX by EPA 8021B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A14001 - EPA 5030B [P/T]										
Blank (2A14001-BLK1)				Prepared & Analyzed: 01/14/02						
Methyl tert-butyl ether	ND	2.5	ug/l							
Surrogate: a,a,a-Trifluorotoluene	*8.80*		"	*10.0*		*88.0*	*70-130*			

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Pacific Environmental Group (Arco) 921 Ringwood Avenue San Jose CA, 95131	Project: Facility 0608, San Lorenzo,Ca Project Number: 17061 Hesperian Blvd Project Manager: Don Watenpaugh	Reported: 01/25/02 11:16

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2A11018 - General Preparation										
Blank (2A11018-BLK1)				Prepared: 01/10/02 Analyzed: 01/11/02						
Total Suspended Solids	ND	10	mg/l							
Duplicate (2A11018-DUP1)		**Source: MLA0088-03**		Prepared: 01/10/02 Analyzed: 01/11/02						
Total Suspended Solids	ND	10	mg/l		ND				20	
Batch 2A15024 - General Preparation										
Blank (2A15024-BLK1)				Prepared & Analyzed: 01/15/02						
Chemical Oxygen Demand	ND	20	mg/l							
LCS (2A15024-BS1)				Prepared & Analyzed: 01/15/02						
Chemical Oxygen Demand	100	20	mg/l	100		100	80-120			
Matrix Spike (2A15024-MS1)		**Source: MLA0136-04**		Prepared & Analyzed: 01/15/02						
Chemical Oxygen Demand	121	20	mg/l	100	52	69.0	75-125			QM-07
Matrix Spike Dup (2A15024-MSD1)		**Source: MLA0136-04**		Prepared & Analyzed: 01/15/02						
’mical Oxygen Demand	118	20	mg/l	100	52	66.0	75-125	2.51	20	QM-07

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Notes and Definitions

Q-23	The closing calibration was outside acceptance limits by -17%. This should be considered in evaluating the result. The average % difference for all analytes met the 15% requirement and the QC suggests that calibration linearity is not a factor.
Q-28	The opening calibration verification standard was outside acceptance criteria by -16%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-04	The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.
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

Work Order #_____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification **Request Frequency:Semi-Monthly**

Project #	821803 (00008000)
Station #	0608
Site Address:	17601 Hesperian Blvd @ Hacienda Avenue
County:	Alameda
Project Manager:	Shaw Garakani
Requestor:	Don Watenpaugh
Technician:	Pedro Ruiz
Client:	ARCO
Client P.O.C.:	Paul Supple
Revision Date:	June 14, 2001
Laboratory:	Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:
weekly = N/A
monthly = once a month on week 1
quarterly = on months 3, 6, 9, 12
semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: _____ Date: 3-5-02
Arrival time: _____ Departure time: _____
Sample this visit?: _____ Engineer contacted? _____

Date: 3·5·02

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	35495	HOUR METER READING (hrs)	409677

TOTALIZER (gallons)	2353360	2353460
FILTER INLET PRESSURE (psig)	26	(ideal range: 8 to 12 psig) 6
CARBON #1 INLET PRESSURE (psig)	4	(ideal range: 5 to 9 psig) 5
CARBON #2 INLET PRESSURE (psig)	4	(ideal range: 1 to 4 psig) 4
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig) 0

PART B: COMMENTS Change Bag Filters out
Backflush Carbon #1 Vessel,
Cleanout Flow Meter, Check totalizer
Swept Compound, Test Flow/High level switch

There are 2 Drums, "Water From RUL Fill
sump" 2-23-02 Gettler Ryan Inc
5 Gal each Drum outside Compound

PART C: WELL DATA (Monthly)

3.50 Qt

*** ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS**

WELL				
E-1A	21.30			NONE
UST-A	DRY	N/A	N/A	NONE
UST-B	DRY	N/A	N/A	NONE
SP1-[redacted] U-4	11.41 DEEP 11.30 SHALLOW	N/A	N/A	NONE

PART D: SAMPLING (Monthly)

SAMPLE			
INFLUENT	TPH-gasoline, BTEX compounds, MtBE	8:10	
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS	8:30	
MID-1	TPH-gasoline, BTEX compounds, MtBE	8:00	
MID-2	TPH-gasoline, BTEX compounds, MtBE	8:25	

PART E: READINGS (Monthly)

	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT	58.4	1080	6.77	20 ppm

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	25	CHANGE FILTERS? (if necessary)	Y
PUMP AMP DRAW	60 amp.	H202 injection well EA-1 (if necessary)	N
SWEEP ENCLOSURE	Y		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES	Y	BACKFLUSH CARBONS	Y
CLEAN TOTALIZERS	Y		

[redacted] QUOIA ANALYTICAL
CHAIN OF CUSTODY

☐ [redacted] Jarv[redacted]ive [redacted]gan[redacted] CA [redacted]
☐ 1455 McDowell Bl lorth, Suite D • **Petaluma, CA 94954** • (707) 792-1865 • FAX (70 92-0342
☐ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group	Project: 821803 #0608 Arco
Mailing Address: 1921 Ringwood Av	Address (if different): 17601 Hesperian Blvd
City: San Jose State: CA Zip Code: 95131	San Lorenzo CA
Telephone: (408) 4537300 Fax #: (408) 4379526	P.O.#: Client: Paul Supple Arco
Report To: Don Waterpouch E-Mail:	QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV
Sampler: George Ruiz Date / Time Results Required:	Sequoia's Work Order #

Turnaround Time: ☒ 10 - 15 Working Days (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ■ SDWA (Drinking Water) ☒ CWA (Waste Water) ■ RCRA (Hazardous Waste) ■ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	TPH Gas BTEX	Compounds	MTBE	COD	TSS					Comments/ Temp.(If required)
1. INFL	3500 8:15	W	3	40ml VOA HCL		X		X							
2. MI01	↓ 8:00	↓	↓	↓		↓		↓							
3. MI02	↓ 8:05	↓	↓	↓		↓		↓							
4. EFFL	↓ 8:30	↓	5	40 ml VOA HCL 1 L Poly H2SO4		↓		↓	X	X					
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: [signature] IT Group 3500 15:10	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time
Relinquished By:	Received By:	Date / Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment ______ Page ____ of ____

White - Sequoia Yellow - Sequoia Pink - Client

Work Order #_____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification **Request Frequency:Semi-Monthly**

Project # 821803 (00008000)
Station # 0608
Site Address: 17601 Hesperian Blvd
@ Hacienda Avenue
County: Alameda
Project Manager: Shaw Garakani
Requestor: Don Watenpaugh
Technician: Pedro Ruiz
Client: ARCO
Client P.O.C.: Paul Supple
Revision Date: June 14, 2001
Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:
weekly = N/A
monthly = once a month on week 1
quarterly = on months 3, 6, 9, 12
semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: _____ Date: 2.25.02
Arrival time: _____ Departure time: _____
Sample this visit?: _____ Engineer contacted? _____

Date: 2/25/02

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Down* (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	35209	HOUR METER READING (hrs)	408314

TOTALIZER (gallons)		2333270
FILTER INLET PRESSURE (psig)		(ideal range: 8 to 12 psig) 10
CARBON #1 INLET PRESSURE (psig)		(ideal range: 5 to 9 psig) 6
CARBON #2 INLET PRESSURE (psig)		(ideal range: 1 to 4 psig) 4
DISCHARGE PRESSURE (psig)		(ideal range: 0 to 2 psig) 0

PART B: COMMENTS 2-55 Gal Drums w/ Rainwater/DC Fill Sump 5 Gal Each 2-23-02 Greither Plumbing
* System was Down. No Power / Volts through Circuit Breaker, Trouble Shoot System Confirm that Breaker was not working Properly Replace Switch From Well #2. System Running 6.3 Amp Draw Down.

Work Order #_____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification **Request Frequency:Semi-Monthly**

Project # — 821803 (00008000)
Station # 0608
Site Address: 17601 Hesperian Blvd @ Hacienda Avenue
County: Alameda
Project Manager: Shaw Garakani
Requestor: Don Watenpaugh
Technician: Pedro Ruiz
Client: ARCO
Client P.O.C.: Paul Supple
Revision Date: June 14, 2001
Laboratory: Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:
weekly = N/A
monthly = once a month on week 1
quarterly = on months 3, 6, 9, 12
semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by: _____ Date: 2-5-02
Arrival time: _____ Departure time: _____
Sample this visit?: _____ Engineer contacted? _____

Date: 2 6 02

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	35207	HOUR METER READING (hrs)	4082.96

TOTALIZER (gallons)	2333090	
FILTER INLET PRESSURE (psig)	8	(ideal range: 8 to 12 psig) 8
CARBON #1 INLET PRESSURE (psig)	4	(ideal range: 5 to 9 psig) 4
CARBON #2 INLET PRESSURE (psig)	4	(ideal range: 1 to 4 psig) 4
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig) 0

PART B: COMMENTS System was Running upon arrival
Swept Enclosure

PART C: WELL DATA (Monthly) 2509

* **ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS**

WELL				
E-1A	2220	Draw Down		
UST-A	1140 Dry	N/A	N/A	
UST-B	1190 Dry	N/A	N/A	
SP1-V4	11.35 Shallow 1150 Deep	N/A	N/A	

PART D: SAMPLING (Monthly)

INFLUENT	TPH-gasoline, BTEX compounds, MtBE 8:30	RO
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS 8:45	RO
MID-1	TPH-gasoline, BTEX compounds, MtBE 8:35	RO
MID-2	TPH-gasoline, BTEX compounds, MtBE 8:40	RO

PART E: READINGS (Monthly)

	TEMP (^{0}F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT	50.1	1210	0.91	22

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	25	CHANGE FILTERS? (if necessary)	N
PUMP AMP DRAW	5.8	H202 injection well EA-1 (if necessary)	N
SWEEP ENCLOSURE	Y		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

❑ 885 Jarvis Drive • [illegible]an Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
❑ 1455 McDowell Blvd. North, Suite D • **Petaluma, CA 94954** • (707) 792-1865 • FAX (707) 792-0342
❑ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
❑ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
❑ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: IT Group		Project: Arco 608 801803	
Mailing Address: 1921 Ringwood Ave.		[redacted] Address (if different): 17601 Hesperian Blvd	
City: San Jose	State: CA	Zip Code: 95131	San Lorenzo CA PM: Paul Supple
Telephone: (408) 453-7300	Fax #: (408) 437-9526	P.O. #:	
Report To: Dan Winegrad	E-Mail:	QC Data:	☒ Level II (Standard) ❑ Level III ❑ Level IV
Sampler: Robert E. Ruiz	Date / Time Results Required:		Sequoia's Work Order #

Turnaround Time:
- ❑ 10 - 15 Working Days (Standard TAT)
- ❑ 7 Working Days
- ❑ 5 Working Days
- ❑ 72 Hours
- ❑ 48 Hours
- ❑ 24 Hours
- ❑ 2-8 Hours

MANDATORY:
- ❑ SDWA (Drinking Water)
- ❑ CWA (Waste Water)
- ❑ RCRA (Hazardous Waste)
- ❑ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Tph gas	Btex Compounds	MTBE	COD	TPH	Comments/ Temp.(if required)
1. INF	2/5/02 8:30	W	3	VOA HCl		X	X	X			
2. MW-1	8:35										
3. MW-2	8:40										
4. EFFL	8:45		5	1L H2SO4 1L NP Non HCl					X	X	
5.											
6.											
7.											
8.											
9.											
10.											

Relinquished By:	2/5/02 11:10	Received By:	Date / Time: 2/6/02 11:10
Relinquished By:		Received By:	Date / Time:
Relinquished By:		Received By:	Date / Time
Relinquished By:		Received By:	Date / Time:

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment _____ Page ____ of ____

ARCO 608

2/5/02 Totalizer 2333090 > 84,390 1.9 gpm
1/4/02 " 2248700 (31 days)

Sample Inf & Eff - GAS, BTEX, MtBE
Eff - TDS, COD

~~Analytical~~ Due 2/20/02
Analytical

Pump Set @ 23.5' drawdown 22.20'

Work Order #_____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification **Request Frequency:Semi-Monthly**

Project #	821803 (00008000)
Station #	0608
Site Address:	17601 Hesperian Blvd @ Hacienda Avenue
County:	Alameda
Project Manager:	Shaw Garakani
Requestor:	Don Watenpaugh
Technician:	Pedro Ruiz
Client:	ARCO
Client P.O.C.:	Paul Supple
Revision Date:	June 14, 2001
Laboratory:	Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE)	X

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:
weekly = N/A
monthly = once a month on week 1
quarterly = on months 3, 6, 9, 12
semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by:_____ Date: 1-31-02
Arrival time:_____ Departure time:_____
Sample this visit?:_____ Engineer contacted?_____

Date: 1-31-02

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM DATA (Semi-Monthly)

System on upon arrival? Running (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)		HOUR METER READING (hrs)	407162

TOTALIZER (gallons)		2321310
FILTER INLET PRESSURE (psig)		(ideal range: 8 to 12 psig) 8
CARBON #1 INLET PRESSURE (psig)		(ideal range: 5 to 9 psig) 4
CARBON #2 INLET PRESSURE (psig)		(ideal range: 1 to 4 psig) 4
DISCHARGE PRESSURE (psig)		(ideal range: 0 to 2 psig) 0

PART B: COMMENTS Inspect Carbon Vessel for Pressure Rate
MFG By
Kese Tank & Pump Co.
1928 G50 Anaheim Blvd
Anaheim CA.

FIELD SERVICES / O&M REQUEST Work Order # 37 10

SITE INFORMATION FORM

Identification

Project # 821803

Station # ARCO 608

Site Address: 17601 Hesperian Blvd San Lorenzo, CA

County:

Project Manager: Shawn

Requestor: Don J.

Client: ARCO

Project Type

- ☐ 1st Time Visit
- ☐ Quarterly
  - ☐ 1st ☐ 2nd ☐ 3rd ☐ 4th
- ☐ Monthly
- ☐ Semi-Monthly
- ☐ Weekly
- ☐ One time event
- ☐ Other: _____

Client P.O.C.: Paul Supple

Date of Request 1/24/02

Ideal field date(s): Next Site Visit

Check Appropriate Category

Budget Hrs. _____

Actual Hrs. _____

Mob de Mob _____

Field Tasks: For General Description

circle one:
Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available)

Check to see if the Carbon vessel have a pressure rating on them.

Get make, model # etc.

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

Task Completed
See Semi-Monthly Data Sheet.

☐ Samples taken ☐ Samples not required ☐ Soil Vapor ☐ Groundwater

☐ Weekly ☐ Semi-Monthly ☐ Monthly ☐ Quarterly ☐ Semi-Annual

PACIFIC ENVIRONMENTAL GROUP, INC.

Completed by: _____ Date: 1-31-02

Checked by: _____

White Copy - Originator Yellow Copy - O & M Tech Pink Copy - File

Work Order #_____

FIELD SERVICES / ROUTINE O&M REQUEST

Identification **Request Frequency:Semi-Monthly**

Project #	821803 (00008000)
Station #	0608
Site Address:	17601 Hesperian Blvd @ Hacienda Avenue
County:	Alameda
Project Manager:	Shaw Garakani
Requestor:	Don Watenpaugh
Technician:	Pedro Ruiz
Client:	ARCO
Client P.O.C.:	Paul Supple
Revision Date:	June 14, 2001
Laboratory:	Sequoia Analytical

Site Remedial Technologies:

Groundwater Extraction (GWE) [X]

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

GWE (A, B)	Semi-Monthly				
GWE (C, D, E, F)	Monthly †				
GWE (G)	Quarterly				

† = sampling to be performed

Definition of frequencies:
weekly = N/A
monthly = once a month on week 1
quarterly = on months 3, 6, 9, 12
semi-monthly = twice a month on week 1 and 3

Field Technician Response:

Completed by:_____ Date: 1-4-02
Arrival time:_____ Departure time:_____
Sample this visit?:_____ Engineer contacted?_____

Date: 1-4-02

Groundwater Extraction & Treatment System
ARCO Service Station 0608
17601 Hesperian Boulevard
821803 (00008000)
June 14, 2001

System Description:

Groundwater Pumps

E-1A	Electric	3"	panel	23.9'

Carbon Vessels: Three ASC-1,200
Filter: Rosedale P2 25 micron

PART A: SYSTEM ~~DATA~~ (Semi-Monthly)

System on upon arrival? RUNNING (if no, specify reason in comments)

ELECTRIC METER READING (kw hrs)	34540	HOUR METER READING (hrs)	400629

TOTALIZER (gallons)	2248520	2248700
FILTER INLET PRESSURE (psig)	22	(ideal range: 8 to 12 psig) 6
CARBON #1 INLET PRESSURE (psig)	5	(ideal range: 5 to 9 psig) 5
CARBON #2 INLET PRESSURE (psig)	4	(ideal range: 1 to 4 psig) 4
DISCHARGE PRESSURE (psig)	0	(ideal range: 0 to 2 psig) 0

PART B: COMMENTS Two Poly Drums on site 1 Label, Rinse Water From Rolf. Il Sump 1-2-29/01-02 GETTLER RYAN INC (12-02 122901)

PART C: WELL DATA (Monthly) 1.4.02

*** ALLOW SYSTEM TO RUN 1 HOUR BEFORE OBTAINING DTW READINGS**

WELL				
E-1A	2215	DRAW DOWN		
UST-A	10.60 11.45 TD	N/A	N/A	
UST-B	10.40 11.95 TD	N/A	N/A	
~~SHALLOW~~ DEEP	9.85 9.95	N/A	N/A	

PART D: SAMPLING (Monthly)

INFLUENT	TPH-gasoline, BTEX compounds, MtBE 9:30	
EFFLUENT	TPH-gasoline, BTEX compounds, MtBE COD, TSS 9:45	
MID-1	TPH-gasoline, BTEX compounds, MtBE 9:35	
MID-2	TPH-gasoline, BTEX compounds, MtBE 9:40	

PART E: READINGS (Monthly)

	TEMP (°F)	CONDUCTIVITY (umhos)	pH (units)	DISSOLVED OXYGEN (ppm)
EFFLUENT	56.7	1320	7.02	1.8

PART F: SYSTEM MAINTENANCE I (Monthly)

NUMBER OF SPARE FILTERS ON SITE?	24	CHANGE FILTERS? (if necessary)	Y
PUMP AMP DRAW	10.3/5.7	H202 injection well EA-1 (if necessary)	NA
SWEEP ENCLOSURE	Y		

PART G: SYSTEM MAINTENANCE II (Quarterly)

TEST ALARM SWITCHES		BACKFLUSH CARBONS	
CLEAN TOTALIZERS			

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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☐ 1455 McDowell B North, Suite D • **Petaluma, CA 94954** • (707) 792-1865 • FAX (70 792-0342
☐ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Arco

Company Name: IT Group		Project: 821803 Arco 0608	
Mailing Address: 1921 Rickwood Ave.		Billing Address (if different): 1760 Hesperian Blvd	
City: San Jose	State: CA	Zip Code: 95131	San Lorenzo. Pool Supply
Telephone: (408) 453-7300	Fax #: (408) 437-9526	P.O. #:	
Report To: Dawn Hampton	E-Mail:	QC Data: ☐ Level II (Standard) ☐ Level III ☐ Level IV	
Sampler: Pedro E. Ruiz	Date / Time Results Required:	Sequoia's Work Order #	

Turnaround Time:
☒ 10 - 15 Working Days (Standard TAT)
☐ 7 Working Days
☐ 5 Working Days
☐ 72 Hours
☐ 48 Hours
☐ 24 Hours
☐ 2-8 Hours

MANDATORY:
☐ SDWA (Drinking Water)
☒ CWA (Waste Water)
☐ RCRA (Hazardous Waste)
☐ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	BTEX TPH EPA 8020 8015 MTBE	COD	TSS	Comments/ Temp.(if required)
1. INFL	1-402 9:30	W	3	40ml HCl		X			
2. MW-1	9:35		1						
3. MW-2	9:40		1						
4. EFFL	9:45		5	40ml HCl 1 Cup Plastic			XX		
5.									
6.									
7.									
8.									
9.									
10.									

Relinquished By: IT Group 1-402 1830	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time
Relinquished By:	Received By:	Date / Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ____ of ____