PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN ITT COMPANY

Quarterly Groundwater Monitoring Report
Second Quarter 1998

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

Prepared for

Mr. Michael Whelan
ARCO Products Company

October 30, 1998

Prepared by

Pacific Environmental Group, Inc.
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Project 330-006.2L

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9/01
STATE OF CALIFORNIA

Date: October 30, 1998
Quarter: 2Q98

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 0608 Address: 17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

ARCO Environmental Engineer: Michael Whelan
Consulting Co./Contact Person: Pacific Environmental Group, Inc./Debra J. Moser
Consultant Project No.: 330-006.2L
Primary Agency/Regulatory ID No.: Alameda County Health Care Services Agency
Monitoring Events Performed to Date: 37

WORK PERFORMED THIS QUARTER (Second - 1998):

1 Submitted first quarter 1998 groundwater monitoring report.
2 Performed second quarter 1998 groundwater monitoring event on June 3 and 4, 1998.
3 Prepared second quarter 1998 groundwater monitoring report.
4 Continued quarterly payments to homeowners for not using domestic irrigation wells.
5 Continued homeowner quarterly monitoring results notification program.

WORK PROPOSED FOR NEXT QUARTER (Third - 1998):

1 Submit second quarter 1998 groundwater monitoring report.
2 Perform third quarter 1998 groundwater monitoring event.
3 Prepare third quarter 1998 groundwater monitoring report.
4 Continue quarterly payments to homeowners for not using domestic irrigation wells.
5 Continue homeowner quarterly monitoring results notification program.

Current Phase of Project:	Monitoring	(Assmnt, Remed., etc.)
Frequency of Groundwater Sampling:	Quarterly	(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:	Natural Attenuation	(SVE/Sparge/FP Removal, etc.)
Approximate Depth to Groundwater:	8.52 to 12.63	(Measure Feet)
Groundwater Gradient:	West-Southwest	(Direction)
	0.004	(Magnitude)
Period TPPH-g/Benzene Removed:	0.0/0.0	(gallons)
Cumulative TPPH-g/Benzene Removed:	0.8/0.04	(gallons)

DISCUSSION:

- Please refer to PEG's *Quarterly Groundwater Monitoring Report - Fourth Quarter 1996*, for historical groundwater elevation and analytical data.
- In a phone message dated June 9, 1998, the ACHCSA representative indicated that the MtBE Risk Assessment had been approved and the site would be reviewed for case closure.

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 - Groundwater Elevation Contour Map
- Figure 2 - TPPH-g/Benzene Concentration Map
- Attachment A - Field and Laboratory Procedures
- Attachment B - Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets

cc: Ms. Madhulla Logan, M.S., Alameda County Health Care Services Agency
Mr. Ron Sykora/Mr. Robert L. Webster, David D. Bohannon Organization
Mr. Stephen Hill, Regional Water Quality Control Board - San Francisco Bay Region
Dr. Charles Lapin, ARCO Products Company

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	a	a	a	a	Quarterly
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	a	a	a	a	Quarterly
MW-14	a	a	a	a	Quarterly
MW-15	a	a	a	a	Quarterly
MW-16	a	a	a	a	Quarterly
MW-17	----------Destroyed----------				
MW-18	a	a	a	a	Quarterly
MW-19	a	a	a	a	Quarterly
MW-20	----------Destroyed----------				
MW-21	a	a	a	a	Quarterly
MW-22	a	a	a	a	Quarterly
MW-23	a	a	a	a	Quarterly
MW-24	a	a	a	a	Quarterly
MW-25	a	a	a	a	Quarterly
MW-26	a	a	a	a	Quarterly
Domestic Irrigation Wells					
590H	a	a	a	a	Quarterly
633H	a	a	a	a	Quarterly
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 2

Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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	††	03/14/96	a	33.99	9.75	24.24	1,600	30	<10	13	<10	NA	NM
		05/29/96	b		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
		11/25/96	d		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
		09/10/97	g		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
MW-7		03/15/96	a	34.40	9.73	24.67	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/29/96	b		11.60	22.80	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96	c		12.63	21.77	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		11/25/96	d		12.10	22.30	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		04/01/97	f		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
		09/10/97	g		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
MW-8		03/14/96	a	32.79	8.90	23.89	670	5.1	<2.0	<2.0	<2.0	NA	NM
		05/29/96	b		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
		04/01/97	f		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
		09/10/97	g		11.67	21.12	570	57	<1.0	2.1	1.7	57	2.0
		09/10/97	e		--	--	--	--	--	--	--	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
MW-9		03/15/96	a	32.11	7.65	24.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96	b		9.67	22.44	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		08/28/96	c		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

Table 2 (continued)
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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-9		04/01/97	f		9.95	22.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
(cont.)		06/25/97			10.85	21.26	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
		09/10/97	g		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
MW-10	††	03/14/96	a	31.67	7.78	23.89	870	35	<5.0	5.2	7.0	NA	NM
		05/29/96	b		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
		11/25/96	d		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
		09/10/97	g		11.08	20.59	950	<1.2	3.3	2.5	3.7	240	2.0
		09/10/97	e		--	--	--	--	--	--	--	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
MW-11		03/14/96	a	32.54	8.60	23.94	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
		05/28/96	b		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
		04/01/97	f		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
		09/10/97	g		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
E-1A	††	03/14/96	a	33.06	10.35	22.71	2,700	38	<5.0	130	6.2	NA	NM
(MW-12)		05/29/96	b		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
		11/25/96	d		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
		09/10/97	g		11.85	21.21	3,200	9.0	<5.0	45	<5.0	85	2.0

Table 2 (continued)
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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)
E-1A	09/10/97	e		--	--	--	--	--	--	--	70	--
(MW-12)	11/24,25/97			11.75	21.31	2,000	10	<2.5	42	2.8	65	1.0
(cont.)	03/19,20/98			9.65	23.41	11,000	1,300	<0.50	550	380	220	6.2
	06/04/98	h		10.47	22.59	4,500	3.3	0.92	41	4.0	51	1.5
MW-13	03/15/96	a	35.42	10.90	24.52	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/29/96	b		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
	04/01/97	f		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
	09/10/97	g		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
MW-14	03/15/96	a	30.46	6.63	23.83	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		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
	09/10/97	g		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
MW-15	03/13/96	a	31.41	8.13	23.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/29/96	b		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
	04/01/97	f		10.45	20.58	<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
	09/09/97			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			Well Inaccessible								

Table 2 (continued)

Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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-16	03/13/96	a	31.39	8.62	22.77	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		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
	09/10/97	g		12.03	19.36	<50	<0.50	<0.50	<0.50	<0.50	63	3.0
	09/10/97	e		--	--	--	--	--	--	--	86	--
	11/24,25/97			11.76	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	1.6
MW-17	---------- Well Destroyed ----------											
MW-18	03/13/96	a	29.70	7.53	22.17	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		10.14	19.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	06/25/97			10.94	18.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
	09/10/97	g		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
MW-19	03/13/96	a	29.02	7.06	21.96	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		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
	09/10/97	g		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

Table 2 (continued)
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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-20	----------					Well Destroyed						
MW-21	03/13/96	a	28.72	7.58	21.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/29/96	b		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
	04/01/97	f		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
	09/10/97	g		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
MW-22	03/13/96	a	29.29	7.83	21.46	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		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
	09/10/97	g		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
MW-23	03/13/96	a	30.99	9.13	21.86	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		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
	09/10/97	g		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

Table 2 (continued)

Groundwater Elevation and Analytical Data

Groundwater Monitoring Wells

Total Purgeable Petroleum Hydrocarbons

(TPPH as Gasoline, BTEX Compounds, and MtBE)

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-24	01/15/96	a	34.38	10.10	24.28	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		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
	04/01/97	f		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
	09/10/97	g		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
MW-25	03/14/96	a	34.12	9.61	24.51	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/29/96	b		11.30	22.82	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96	c		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
	04/01/97	f		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
	09/10/97	g		12.45	21.67	<50	<0.50	<0.50	<0.50	<0.50	78	1.0
	09/10/97	e		--	--	--	--	--	--	--	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
MW-26	03/15/96	a	33.71	9.38	24.33	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	05/28/96	b		11.57	22.14	<50	<0.50	<0.50	<0.50	<0.50	NA	NM
	08/28/96	c		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
	04/01/97	f		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
	09/10/97	g		12.77	20.94	<50	<0.50	<0.50	<0.50	<0.50	<2.5	5.0

Table 2 (continued)
Groundwater Elevation and Analytical Data
Groundwater Monitoring Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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	11/24,25/97		12.55	21.16	<50	<0.50	<0.50	<0.50	<0.50	<2.5	3.6
(cont.)	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

MtBE = Methyl tert-butyl ether
MSL = Mean sea level
TOB = Top of box
ppb = Parts per billion
ppm = Parts per million
a. All wells gauged on March 13, 1996.
b. All wells gauged on May 28, 1996.
c. Well sampled on August 29, 1996.
d. Well sampled on November 26, 1996.
e. MtBE result confirmed by EPA Method 8260.
f. Wells gauged on March 31, 1997.
g. Wells gauged on September 9, 1997.
h. Depth 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.
< = Less than laboratory detection limit.
NA = Not analyzed
NM = Not measured
NS = Not sampled
† = Well sampled without purging.
†† = ORC program at well was initiated on September 21, 1995 and discontinued on May 15, 1997.

Table 3
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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
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
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
	06/03/98 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
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

Table 3 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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	06/25/97	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
(cont.)	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
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
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
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
	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 f	NS	NS	NS	NS	NS	NS	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
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

Table 3 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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)
17348 VE (cont.)	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
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
	06/03/98	860	8.7	<0.50	0.7	8.0	38	4.9
	07/29/98	860	20	2.1	<1.2	<1.2	27	NM
	07/29/98	--	--	--	--	--	25 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
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
	07/29/98	--	--	--	--	--	1,100 c	NM
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

Table 3 (continued)
Groundwater Analytical Data
Domestic Irrigation Wells
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MtBE)

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)
17393 VM	11/26/96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NM
(cont.)	03/31/97 a	NS	NS	NS	NS	NS	NS	NM
	06/25/97	---------- Well Destroyed ----------						

MtBE = Methyl tert-butyl ether
ppb = Parts ber billion
H = Hacienda Avenue
< = Less than laboratory detection limit stated at right.
NA = Not analyzed
NM = Not measured
NS = Not sampled
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.
VM = Via Magdalena
VE = Via Encinas
* = 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.
† = Sample analyzed past hold time.
Homeowners are contacted 1 week prior to sampling event.

N

VIA MANZANAS

RESIDENTIAL

MW-20

POTRERO COURT

APARTMENTS

APARTMENTS

VIA ARRIBA

SHOPS

HESPERIAN BOULEVARD

RESTAURANT

MW-19
(19.87)

VIA MAGDALENA

CHURCH
AND SCHOOL

17200VM

MW-17

MW-14
(21.94)

MW-24
(22.38)

RESIDENTIAL

MW-21
(19.15)

VIA MEDIA

VIA FLORES

17197VM

MW-18
(20.13)

17203VM

17302VM

17372VM

MW-26
(22.49)

RESTAURANT

MW-9
(22.76)

(22.59) E-1A

MW-16
(20.84)

RESIDENTIAL

(22.08)
MW-10

(22.54) MW-8

MW-25
(23.12)

633H

SP-2/V-2

SP-1/V-4

MW-5
(22.75)

MW-7
(23.10)

17349VM

17371VM

MW-15†

MW-11
(22.27)

590H

MW-13
(22.79)

17393VM

634H

642H

22.0

RESIDENTIAL

MW-22
(19.29)

VIA ENCINAS COURT

17348VE

MW-23
(19.96)

675H

21.0

20.0

HACIENDA AVENUE

VIA ALAMO

RESIDENTIAL

23 TOPS

SITE LOCATION

APPROXIMATE DIRECTION
OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.004

LEGEND

MW-7 — GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

SP-1/V-4 — DUAL COMPLETION AIR SPARGING/SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION

MW-20 — DESTROYED WELL LOCATION AND DESIGNATION

590H — DOMESTIC IRRIGATION WELL LOCATION AND DESIGNATION

E-1A — GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

(21.94) — GROUNDWATER ELEVATION IN FEET - MSL, 6-3-98 AND 6-4-98

20.0 — GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 6-3-98 AND 6-4-98

† WELL INACCESSIBLE

PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE

0 150 300 FEET

ARCO SERVICE STATION 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE:
1
PROJECT:
330-006.2L

N

VIA MANZANAS

RESIDENTIAL

MW-20 ∅

POTRERO COURT

APARTMENTS

APARTMENTS

VIA ARRIBA

SHOPS

HESPERIAN BOULEVARD

RESTAURANT

MW-19
ND/ND

VIA MAGDALENA

CHURCH
AND SCHOOL

17200VM ∅ MW-17

MW-14
ND/ND

MW-24
ND/ND

RESIDENTIAL

MW-26
ND/ND

RESTAURANT

MW-21
ND/ND

VIA MEDIA

VIA FLORES

ND/ND
MW-18
ND/ND

17197VM ■

17203VM
■ NS

17302VM ■
NS

■ ND/ND
17372VM

MW-9
ND/ND

E-1A 4,500/3.3

680/ND
MW-10

480/6.2
633H

SP-2/V-5 △
NS

MW-16
ND/ND

RESIDENTIAL

360/2.2 MW-8

SP-1/V-4 △
NS

MW-25
ND/ND

MW-5
150/ND

590H ■
ND/ND

MW-7
ND/ND

17349VM
860/8.7 ■

17371VM
■ NS

MW-15 †

MW-11
ND/ND

MW-22
ND/ND

VIA ENCINAS COURT

17393VM
NS ∅

634H
642H ■ NS
ND/ND

MW-13
ND/ND

SHOPS

SITE LOCATION

RESIDENTIAL

17348VE
NS

MW-23
ND/ND

675H
NS

HACIENDA AVENUE

RESIDENTIAL

VIA ALAMO

APPROXIMATE DIRECTION
OF GROUNDWATER FLOW

LEGEND

MW-7 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

SP-1/V-4 △ DUAL COMPLETION AIR SPARGING/SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION

MW-20 ∅ DESTROYED WELL LOCATION AND DESIGNATION

590H ■ DOMESTIC IRRIGATION WELL LOCATION AND DESIGNATION

E-1A ◉ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

360/2.2 TPPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 6-3-98 AND 6-4-98

ND NOT DETECTED

NS NOT SAMPLED

† WELL INACCESSIBLE

PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE
0 150 300 FEET

ARCO SERVICE STATION 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

TPPH-g/BENZENE CONCENTRATION MAP

FIGURE:
2
PROJECT:
330-006.2L

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 calculated as gasoline, benzene, toluene, ethylbenzene, 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 Hydac AccuVac test kit.

ATTACHMENT B

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

JUN 3 0 1998

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shew Garakani

Project: 33000622/0608, 17601 Hesperia

Enclosed are the results from samples received at Sequoia Analytical on June 5, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9806293 -01	LIQUID, MW-5	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -02	LIQUID, MW-7	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -03	LIQUID, MW-9	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -04	LIQUID, MW-10	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -05	LIQUID, MW-13	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -06	LIQUID, MW-24	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -07	LIQUID, MW-25	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -08	LIQUID, MW-26	06/04/98	Purgeable TPH/BTEX/MTBE
9806293 -09	LIQUID, E-1A	06/04/98	Purgeable TPH/BTEX/MTBE

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager

Quality Assurance Department

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92606 (714) 261-1022 FAX (714) 261-132
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-340

SURROGATE RECOVERIES FOR SEQUOIA ANALYTICAL WORK ORDER #9806293

Laboratory Number	Sample Description	8015/8020 Surrogate Recovery	MTBE Surrogate Recovery
V8060434	9806293-01	93%	93%
V8060435	9806293-02	90%	90%
V8060436	9806293-03	89%	89%
V8060437	9806293-04	89%	89%
V8060438	9806293-05	91%	91%
V8060439	9806293-06	86%	86%
V8060440	9806293-07	90%	90%
V8060441	9806293-08	99%	99%
V8060442	9806293-09	87%	87%

DEL MAR ANALYTICAL, VAN NUYS-(ELAP #1855)

Roan J. McRae
Laboratory Manager

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Del Mar Analytical

Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063
Attention: Tod Granicher

Client Project ID: Work Order #9806293

Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: V8060434

Sampled:	Jun 4, 1998
Received:	Jun 6, 1998
Extracted:	Jun 15, 1998
Analyzed:	Jun 15, 1998
Reported:	Jun 17, 1998

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Water	Volatile Fuel Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Total Xylenes µg/L (ppb)
V8060434	**9806293-01**	**150**	**N.D.**	**N.D.**	**0.32**	**0.74**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060435	**9806293-02**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060436	**9806293-03**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060437	**9806293-04**	**680**	**N.D.**	**4.8**	**2.3**	**8.6**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060438	**9806293-05**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060439	**9806293-06**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12.
Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL, VAN NUYS (ELAP #1855)

Roan J. McRae
Laboratory Manager

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-34

Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063
Attention: Tod Granicher

Client Project ID: Work Order #9806293

Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: V8060440

Sampled: Jun 4, 1998
Received: Jun 6, 1998
Extracted: Jun 15-16, 1998
Analyzed: Jun 15-16, 1998
Reported: Jun 17, 1998

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

Laboratory Number	Sample Description Water	Volatile Fuel Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Total Xylenes µg/L (ppb)
V8060440	**9806293-07**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060441	**9806293-08**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	50	0.30	0.30	0.30	0.60
V8060442	**9806293-09**	**4,500**	**3.3**	**0.92**	**41**	**4.0**
Dilution: 10	Reporting Limit:	500	3.0	3.0	3.0	6.0

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL, VAN NUYS (ELAP #1855)

Roan J. McRae
Laboratory Manager

Del Mar Analytical

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Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063
Attention: Tod Granicher

Client Project ID: Work Order #9806293

Analysis Method: EPA 5030/8020
First Sample #: V8060434

Sampled: Jun 4, 1998
Received: Jun 6, 1998
Extracted: Jun 15-16, 1998
Analyzed: Jun 15-16, 1998
Reported: Jun 17, 1998

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Water	Sample Result µg/L (ppb)	Reporting Limit µg/L (ppb)	Dilution Factor
V8060434	9806293-01	20	10	1.0
V8060435	9806093-02	N.D.	10	1.0
V8060436	9806293-03	N.D.	10	1.0
V8060437	9806293-04	79	10	1.0
V8060438	9806293-05	N.D.	10	1.0
V8060439	9806293-06	N.D.	10	1.0
V8060440	9806293-07	44	10	1.0
V8060441	9806293-08	N.D.	10	1.0
V8060442	9806293-09	51	20	2.0

MTBE = Methyl tert-Butyl Ether

Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL, VAN NUYS (ELAP #1855)

Roan J. McRae
Laboratory Manager

Del Mar Analytical

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Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063
Attention: Tod Granicher

Method Blank

Extracted: Jun 15-16, 1998
Analyzed: Jun 15-16, 1998
Reported: Jun 17, 1998

MTBE (EPA 8020 MODIFIED)

Sample Description	Sample Result µg/L (ppb)	Reporting Limit µg/L (ppb)	Dilution Factor
Method Blank	N.D.	10	1.0

MTBE = Methyl tert-Butyl Ether

Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL, VAN NUYS (ELAP #1855)

Roan J. McRae
Laboratory Manager

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-34

Sequoia Analytical
680 Chesapeake Drive
Redwood City, CA 94063
Attention: Tod Granicher

Method Blank

Extracted: Jun 15-16, 1998
Analyzed: Jun 15-16, 1998
Reported: Jun 17, 1998

VOLATILE FUEL HYDROCARBONS/BTEX DISTINCTION (CA DHS Mod. EPA 8015/8020)

	Laboratory Description	Volatile Fuel Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Total Xylenes µg/L (ppb)
	Method Blank	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution 1:1	Reporting Limit:	50	0.30	0.30	0.30	0.60

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C6 to C12. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL, VAN NUYS (ELAP #1855)

Roan J. McRae
Laboratory Manager

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-341

MS/MSD DATA REPORT

EPA Method 8015/8020

Matrix: Water

Date: 06/15/98

Sample #: V8060438

Batch #: HF15G12W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppb	ppb	ppb	ppb	%	%	%	%	RPD	Mean PR
TPH	3.8	220	211	216	94	96	2.5	95	≤15	75 - 115
Benzene	0	20	23	23	115	114	0.91	115	≤10	81 - 123
Toluene	0	20	21	21	107	106	0.86	106	≤10	80 - 115
Ethylbenzene	0	20	22	22	111	111	0.62	111	≤10	85 - 118
Xylenes	0	60	64	64	107	107	0.82	107	≤10	81 - 115

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits..... Determined by in-house Control Charts

Del Mar Analytical

ARCO Product Company
Division of AtlanticRichfieldCompany

330 0062 2 Task Order No. 29 9806293

Chain of Custody

ARCO Facility no. 0608	City (Facility) 1760 Hesperian Blvd. San Lorenzo	Project manager (Consultant) Shaw Garakani	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539
Consultant name PEG	Address (Consultant) 2025 Gateway Pl. Suite 440, San Jose, CA 95110		Contract number WA #22340.

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015 mtbe	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 825/8270	TCLP Metals ☐ VOA ☐ Semi VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW5	01	3	01	X		X	HCl	6/4/98	8:45		X											
MW7	02	↓	02	↓		↓	↓	↓	7:53		↓											
MW9	03								10:40													
MW10	04								11:00													
MW13	05								7:30													
MW24	06								10:15													
MW25	07								8:15													
MW26	08								9:47													
E-1A	09	↓		↓		↓	↓	↓	9:15		↓											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☑

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by sampler: Don Watenpaugh	6/4/98	13:55	Received by: Krumy Gleonar		
Relinquished by: Krumy Gleonar	6/5/98	10:30	Received by:	6/5/98	10:30 am
Relinquished by:	6/5/98		Received by laboratory:	6-5-98	12:29

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APPC-3292 (2-91)

Sequoia Analytical

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JUL 07 1998

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Project: 330-006.2L/0608,San Lorenzo

Enclosed are the results from samples received at Sequoia Analytical on June 4, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9806206 -01	LIQUID, MW8	06/03/98	MTBE by 8020 (Subbed)
9806206 -01	LIQUID, MW8	06/03/98	TPPH/BTEX
9806206 -02	LIQUID, MW11	06/03/98	MTBE by 8020 (Subbed)
9806206 -02	LIQUID, MW11	06/03/98	TPPH/BTEX
9806206 -03	LIQUID, MW14	06/03/98	MTBE by 8020 (Subbed)
9806206 -03	LIQUID, MW14	06/03/98	TPPH/BTEX
9806206 -04	LIQUID, MW16	06/03/98	MTBE by 8020 (Subbed)
9806206 -04	LIQUID, MW16	06/03/98	TPPH/BTEX
9806206 -05	LIQUID, MW18	06/03/98	MTBE by 8020 (Subbed)
9806206 -05	LIQUID, MW18	06/03/98	TPPH/BTEX
9806206 -06	LIQUID, MW19	06/03/98	MTBE by 8020 (Subbed)
9806206 -06	LIQUID, MW19	06/03/98	TPPH/BTEX
9806206 -07	LIQUID, MW21	06/03/98	MTBE by 8020 (Subbed)

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Sequoia Analytical

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9806206 -07	LIQUID, MW21	06/03/98	TPPH/BTEX
9806206 -08	LIQUID, MW22	06/03/98	MTBE by 8020 (Subbed)
9806206 -08	LIQUID, MW22	06/03/98	TPPH/BTEX
9806206 -09	LIQUID, MW23	06/03/98	MTBE by 8020 (Subbed)
9806206 -09	LIQUID, MW23	06/03/98	TPPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager

Quality Assurance Department

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW8
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9806206-01

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.5	47

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-01

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	360
Benzene	0.50	2.2
Toluene	0.50	1.2
Ethyl Benzene	0.50	1.8
Xylenes (Total)	0.50	1.0
Chromatogram Pattern:		47 ?

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW11
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9806206-02

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	N.D.
Surrogates	**Control Limits %**	**% Recovery**
Trifluorotoluene	70 130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW11
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-02

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW14
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9806206-03

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW14
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-03

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 330-006.2L/0608,San Lorenzo	Sampled: 06/03/98
2025 Gateway Place, Suite 440	Sample Descript: MW16	Received: 06/04/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: EPA 8020	Analyzed: 06/08/98
Attention: Shaw Garakani	Lab Number: 9806206-04	Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	22

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW16
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-04

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW18
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9806206-05

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW18
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-05

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW19
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9806206-06

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 330-006.2L/0608,San Lorenzo	Sampled: 06/03/98
2025 Gateway Place, Suite 440	Sample Descript: MW19	Received: 06/04/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/08/98
Attention: Shaw Garakani	Lab Number: 9806206-06	Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: 330-006.2L/0608,San Lorenzo	Sampled: 06/03/98
2025 Gateway Place, Suite 440	Sample Descript: MW21	Received: 06/04/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: EPA 8020	Analyzed: 06/08/98
Attention: Shaw Garakani	Lab Number: 9806206-07	Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW21
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-07

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW22
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9806206-08

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	0.87

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

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2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW22
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-08

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group	Client Proj. ID: 330-006.2L/0608,San Lorenzo	Sampled: 06/03/98
2025 Gateway Place, Suite 440	Sample Descript: MW23	Received: 06/04/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: EPA 8020	Analyzed: 06/08/98
Attention: Shaw Garakani	Lab Number: 9806206-09	Reported: 06/15/98

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	0.50	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Sample Descript: MW23
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806206-09

Sampled: 06/03/98
Received: 06/04/98

Analyzed: 06/08/98
Reported: 06/15/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	110

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1849

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Client Project ID: 330-006.2L/0608, San Lorenzo
Matrix: LIQUID
Work Order #: 9806206 01-09
Reported: Jul 2, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	06V8129	06V8129	06V8129	06V8129
Analy. Method:	EPA 8015M/8020	EPA 8015M/8020	EPA 8015M/8020	EPA 8015M/8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	N.A.	N.A.	N.A.	N.A.
LCS/LCSD #:	LCS060898	LCS060898	LCS060898	LCS060898
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	6/8/98	6/8/98	6/8/98	6/8/98
Analyzed Date:	6/8/98	6/8/98	6/8/98	6/8/98
Instrument I.D.#:	N.A.	N.A.	N.A.	N.A.
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	20 µg/L
Result:	21	21	20	21
MS % Recovery:	110	110	100	110
Dup. Result:	21	20	19	21
MSD % Recov.:	110	100	95	110
RPD:	0.0	9.5	5.1	0.0
RPD Limit:	0-30	0-30	0-30	0-30

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL
ELAP #1849

Tod Granicher
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Client Proj. ID: 330-006.2L/0608,San Lorenzo
Lab Proj. ID: 9806206

Received: 06/04/98
Reported: 06/15/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 12 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: [illegible]
REC. BY (PRINT): JD

WORKORDER: 9806206
DATE OF LOG-IN: 6/4/98

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s): Present / (Absent) Intact / Broken*
2. Custody Seal #: Put in Remarks Section
3. Chain-of-Custody: (Present) / Absent*
4. Traffic Reports or Packing List: Present / (Absent)
5. Airbill: Airbill / Sticker Present / (Absent)
6. Airbill #: —
7. Sample Tags: (Present) / Absent
   Sample Tags #s: (Listed) / Not Listed on Chain-of-Custody
8. Sample Condition: (Intact) / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? (Yes) / No*
10. Proper Preservatives used: (Yes) / No*
11. Date Rec. at Lab: 6/4/98
12. Time Rec. at Lab: 1226
13. Temp Rec. at Lab: 10°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A-C	MW 8	3 VOA	LIQ	6/3	
2		11				
3		14				
4		16				
5		18				
6		19				
7		21				
8		22				
9	1	23				

6/4/98 >1D

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

Revision 6/18/97
RCPTLOG.XLS

ARCO Products Company Proj # 330-0006.2L

[redacted] Division [redacted] Company [redacted] T[redacted] Orde[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] ain [redacted] us[redacted]

ARCO Facility no. 0608	City (Facility) 17601 Hesperian SAN LORENZO	Project manager (Consultant) Shaw Bacharni	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO) [redacted]	Telephone no. (Consultant) 408-441-7500	Fax no. (Consultant) 4084417539
Consultant name PEG	Address (Consultant) 2025 GATEWAY Pl. suite 440 SAN JOSE CA 95110		Contract number 22340

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH/MTBE EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
MW 8	1	3		X		X	HCl	6/3/98	14:20		X											
MW 11	2	↓		↓		↓	↓	↓	13:55		↓											
MW 14	3								13:35													
MW 16	4								13:10													
MW 18	5								12:50													
MW 19	6								12:25													
MW 21	7								12:05													
MW 22	8								11:45													
MW 23	9	↓		↓		↓	↓	↓	11:20		↓											

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number 9806206

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by sampler: Don Lutenpaugh	6/3/98	16:05	Received by: [redacted]		
Relinquished by: [redacted]	6/4/98	10:00	Received by: [redacted]	6/4/98	10:00 am
Relinquished by: [redacted]	6/4/98		Received by laboratory: [redacted]	6/4	1224

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APPC-3292 (2-91)

Sequoia Analytical

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JUN 30 1998

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Project: 330-006.2L/0608,San Lorenzo

Enclosed are the results from samples received at Sequoia Analytical on June 4, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9806203 -01	LIQUID, 590H	06/03/98	MTBE by 8020 (Subbed)
9806203 -01	LIQUID, 590H	06/03/98	TPPH/BTEX
9806203 -02	LIQUID, 633H	06/03/98	MTBE by 8020 (Subbed)
9806203 -02	LIQUID, 633H	06/03/98	TPPH/BTEX
9806203 -03	LIQUID, 642H	06/03/98	MTBE by 8020 (Subbed)
9806203 -03	LIQUID, 642H	06/03/98	TPPH/BTEX
9806203 -04	LIQUID, 17197VM	06/03/98	MTBE by 8020 (Subbed)
9806203 -04	LIQUID, 17197VM	06/03/98	TPPH/BTEX
9806203 -05	LIQUID, 17349VM	06/03/98	MTBE by 8020 (Subbed)
9806203 -05	LIQUID, 17349VM	06/03/98	TPPH/BTEX
9806203 -06	LIQUID, 17372VM	06/03/98	MTBE by 8020 (Subbed)
9806203 -06	LIQUID, 17372VM	06/03/98	TPPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager

Quality Assurance Department

STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155

Tarrant County • (817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431

ACCREDITED

Sequoia Analytical - Redwood City	Project:	ARCO	Sampled: 6/3/98
680 Chesapeake Drive	Project Number:	9806203	Received: 6/5/98
Redwood City, CA 94063	Project Manager:	Tod Granicher	Reported: 6/11/98 10:29

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9806203-01	8060079-00	Water	6/3/98
9806203-02	8060079-01	Water	6/3/98
9806203-03	8060079-02	Water	6/3/98
9806203-04	8060079-03	Water	6/3/98
9806203-05	8060079-04	Water	6/3/98
9806203-06	8060079-05	Water	6/3/98

Star Analytical, Inc.

L Hall

Lari Hall, 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.

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Sequoia Analytical - Redwood City	Project:	ARCO	Sampled: 6/3/98
680 Chesapeake Drive	Project Number:	9806203	Received: 6/5/98
Redwood City, CA 94063	Project Manager:	Tod Granicher	Reported: 6/11/98 10:29

Gasoline Hydrocarbons (C6-C12), BTEX and MTBE by EPA 8015M and 8020
Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
9806203-01			**8060079-00**				**Water**	
Gasoline Range Hydrocarbons	06V8138	6/9/98	6/9/98		50	ND	ug/l	
Benzene	"	"	"		0.50	ND	"	
Toluene	"	"	"		0.50	ND	"	
Ethylbenzene	"	"	"		0.50	ND	"	
Xylenes (total)	"	"	"		0.50	ND	"	
Methyl tert-butyl ether	"	"	"		0.50	ND	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	*70-130*		*100*	%	
9806203-02			**8060079-01**				**Water**	
Gasoline Range Hydrocarbons	06V8138	6/9/98	6/9/98		50	**480**	ug/l	1
Benzene	"	"	"		0.50	**6.2**	"	
Toluene	"	"	"		0.50	**4.3**	"	
Ethylbenzene	"	"	"		0.50	**2.9**	"	
Xylenes (total)	"	"	"		0.50	**120**	"	
Methyl tert-butyl ether	"	"	"		0.50	**28**	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	*70-130*		*100*	%	
9806203-03			**8060079-02**				**Water**	
Gasoline Range Hydrocarbons	06V8138	6/9/98	6/9/98		50	ND	ug/l	
Benzene	"	"	"		0.50	ND	"	
Toluene	"	"	"		0.50	ND	"	
Ethylbenzene	"	"	"		0.50	ND	"	
Xylenes (total)	"	"	"		0.50	ND	"	
Methyl tert-butyl ether	"	"	"		0.50	ND	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	*70-130*		*110*	%	
9806203-04			**8060079-03**				**Water**	
Gasoline Range Hydrocarbons	06V8138	6/9/98	6/9/98		50	ND	ug/l	
Benzene	"	"	"		0.50	ND	"	
Toluene	"	"	"		0.50	ND	"	
Ethylbenzene	"	"	"		0.50	ND	"	
Xylenes (total)	"	"	"		0.50	ND	"	
Methyl tert-butyl ether	"	"	"		0.50	ND	"	
Surrogate: a,a,a-TFT (PID)	"	"	"	*70-130*		*100*	%	
9806203-05			**8060079-04**				**Water**	
Gasoline Range Hydrocarbons	06V8138	6/9/98	6/9/98		50	**860**	ug/l	2
Benzene	"	"	"		0.50	**8.7**	"	
Toluene	"	"	"		0.50	ND	"	
Ethylbenzene	"	"	"		0.50	**0.70**	"	
Xylenes (total)	"	"	"		0.50	**8.0**	"	

Star Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

L Hall

Lari Hall, Project Manager

STAR ANALYTICAL

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Sequoia Analytical - Redwood City	Project:	ARCO	Sampled: 6/3/98
680 Chesapeake Drive	Project Number:	9806203	Received: 6/5/98
Redwood City, CA 94063	Project Manager:	Tod Granicher	Reported: 6/11/98 10:29

Gasoline Hydrocarbons (C6-C12), BTEX and MTBE by EPA 8015M and 8020
Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
9806203-05 (continued)			8060079-04				**Water**	
Methyl tert-butyl ether	06V8138	6/9/98	6/9/98		0.50	**38**	ug/l	
Surrogate: a,a,a-TFT (PID)	"	"	"	*70-130*		*110*	%	
9806203-06			8060079-05				**Water**	
Gasoline Range Hydrocarbons	06V8138	6/9/98	6/9/98		50	ND	ug/l	
Benzene	"	"	"		0.50	ND	"	
Toluene	"	"	"		0.50	ND	"	
Ethylbenzene	"	"	"		0.50	ND	"	
Xylenes (total)	"	"	"		0.50	ND	"	
Methyl tert-butyl ether	"	"	"		500	**16000**	"	D
Surrogate: a,a,a-TFT (PID)	"	"	"	*70-130*		*110*	%	

Star Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Lari Hall, Project Manager

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Sequoia Analytical - Redwood City	Project:	ARCO	Sampled: 6/3/98
680 Chesapeake Drive	Project Number:	9806203	Received: 6/5/98
Redwood City, CA 94063	Project Manager:	Tod Granicher	Reported: 6/11/98 10:29

Gasoline Hydrocarbons (C6-C12), BTEX and MTBE by EPA 8015M and 8020/Quality Control
Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 06V8138	**Date Prepared: 6/9/98**					**Extraction Method: EPA 5030**				
Blank	**06V8138-BLK1**									
Gasoline Range Hydrocarbons	6/9/98			**ND**	ug/l	**50**				
Benzene	"			**ND**	"	**0.50**				
Toluene	"			**ND**	"	**0.50**				
Ethylbenzene	"			**ND**	"	**0.50**				
Xylenes (total)	"			**ND**	"	**0.50**				
Methyl tert-butyl ether	"			**ND**	"	**0.50**				
Surrogate: a,a,a-TFT (PID)	"	*30*		*31*	"	*70-130*	*100*			
LCS	**06V8138-BS1**									
Benzene	6/9/98	20		22	ug/l	80-120	110			
Toluene	"	20		22	"	80-120	110			
Ethylbenzene	"	20		22	"	80-120	110			
Xylenes (total)	"	20		23	"	80-120	120			
Surrogate: a,a,a-TFT (PID)	"	*30*		*30*	"	*70-130*	*100*			
LCS	**06V8138-BS2**									
Gasoline Range Hydrocarbons	6/9/98	500		550	ug/l	80-120	110			
Surrogate: a,a,a-TFT (PID)	"	*30*		*34*	"	*70-130*	*110*			
LCS Dup	**06V8138-BSD1**									
Benzene	6/9/98	20		22	ug/l	80-120	110	30	0	
Toluene	"	20		22	"	80-120	110	30	0	
Ethylbenzene	"	20		21	"	80-120	110	30	0	
Xylenes (total)	"	20		23	"	80-120	120	30	0	
Surrogate: a,a,a-TFT (PID)	"	*30*		*29*	"	*70-130*	*97*			
Duplicate	**06V8138-DUP1**		**8060080-00**							
Gasoline Range Hydrocarbons	6/9/98		ND	ND	ug/l			30		
Benzene	"		ND	ND	"					
Toluene	"		ND	ND	"					
Ethylbenzene	"		ND	ND	"					
Xylenes (total)	"		ND	ND	"					
Methyl tert-butyl ether	"		1400	1100	"			30	**24**	D
Surrogate: a,a,a-TFT (PID)	"	*30*		*30*	"	*70-130*	*100*			
Duplicate	**06V8138-DUP2**		**8060082-00**							
Gasoline Range Hydrocarbons	6/9/98		780	750	ug/l			30	**3.9**	3
Benzene	"		120	95	"			30	**23**	D
Toluene	"		ND	ND	"			30		
Ethylbenzene	"		ND	ND	"			30		

Star Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

L Hall

Lari Hall, Project Manager

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ACCREDITED

Sequoia Analytical - Redwood City	Project:	ARCO	Sampled: 6/3/98
680 Chesapeake Drive	Project Number:	9806203	Received: 6/5/98
Redwood City, CA 94063	Project Manager:	Tod Granicher	Reported: 6/11/98 10:29

Gasoline Hydrocarbons (C6-C12), BTEX and MTBE by EPA 8015M and 8020/Quality Control
Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Duplicate (continued)	**06V8138-DUP2**		**8060082-00**							
Xylenes (total)	6/9/98		1.9	1.8	ug/l			30	**5.4**	
Methyl tert-butyl ether	"		650	500	"			30	**26**	D
Surrogate: a,a,a-TFT (PID)	"	*30*		*23*	"	*70-130*	*77*			

Star Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Lari Hall, Project Manager

STAR ANALYTICAL

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Tarrant County • (817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431

ACCREDITED

Sequoia Analytical - Redwood City	Project:	ARCO	Sampled:	6/3/98
680 Chesapeake Drive	Project Number:	9806203	Received:	6/5/98
Redwood City, CA 94063	Project Manager:	Tod Granicher	Reported:	6/11/98 10:29

Notes and Definitions

#	Note
D	Data reported from a dilution.
1	Gasoline
2	Non-Gas >C10
3	Discrete Peak C6
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
Recov.	Recovery
RPD	Relative Percent Difference

Star Analytical, Inc.

Lari Hall, Project Manager

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: anco
REC. BY (PRINT) ID

WORKORDER: 9806203
DATE OF LOG-IN: 6/4/98

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s) — Present / Absent — Intact / Broken*
2. Custody Seal #: — Put in Remarks Section
3. Chain-of-Custody — Present / Absent*
4. Traffic Reports or Packing List: — Present / Absent
5. Airbill: — Airbill / Sticker Present / Absent
6. Airbill #:
7. Sample Tags: — Present / Absent
   Sample Tags #s: — Listed / Not Listed on Chain-of-Custody
8. Sample Condition: — Intact / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? — Yes / No*
10. Proper Preservatives used: — Yes / No*
11. Date Rec. at Lab: 6/4/98
12. Time Rec. at Lab: 1226
13. Temp Rec. at Lab: 5°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A-C	590 H	3 x VOA	LIQ	6/3	
2	1	633 H				
3		642 H				
4		17197 VM				
5		17349 VM				
6		17372 VM				
7						

START

6/4/98

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

Revision 6/18/97
RCPTLOG.XLS

ARCO Product Company
Division of AtlanticRichfieldCompany

Task Order No.

Chain of Custody

ARCO Facility no. 0608	City (Facility) 17601 Hesperian Blvd San Lorenzo	Project Manager (Consultant) Shaw Garakani	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539	Contract number WA 22340
Consultant name PEG	Address (Consultant) 2025 Gateway Pl Suite 440 San Jose CA 95110			Method of shipment

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐
590H	1	3		X		X	HCl	6/3/98	8:54		X									
633H	2								8:40											
642H	3								9:15											
17197VM	4								10:05											
17349VM	5								10:40											
17372VM	6								9:48											

Special detection Limit/reporting

Special QA/QC

Remarks
Run EPA 8260
IF MEOE greater than 35 ppb

Lab number
9806203

Turnaround time
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☑

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by sampler	6/3/98	16:05	Received by		
Relinquished by	6/4/98		Received by	6/4/98	10:00 AM
Relinquished by	6/4/98		Received by laboratory	6/4/98	1220

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APPC-3292 (2-91)

AUG 0 7 1998

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Project: Arco 205-003.1A, fac. #0608

Enclosed are the results from samples received at Sequoia Analytical on July 30, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9807H97 -01	LIQUID, 17349VM	07/29/98	MTBE by 8260
9807H97 -01	LIQUID, 17349VM	07/29/98	MTBE_W Methyl t-Butyl Ethe
9807H97 -01	LIQUID, 17349VM	07/29/98	Purgeable TPH/BTEX
9807H97 -02	LIQUID, 17372VM	07/29/98	MTBE by 8260
9807H97 -02	LIQUID, 17372VM	07/29/98	MTBE_W Methyl t-Butyl Ethe
9807H97 -02	LIQUID, 17372VM	07/29/98	Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager

Quality Assurance Department

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: Arco 205-003.1A, fac. #0608
Sample Descript: 17349VM
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9807H97-01

Sampled: 07/29/98
Received: 07/30/98

Analyzed: 08/04/98
Reported: 08/05/98

QC Batch Number: MS080198MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	25

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: Arco 205-003.1A, fac. #0608
Sample Descript: 17349VM
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9807H97-01

Sampled: 07/29/98
Received: 07/30/98

Analyzed: 07/31/98
Reported: 08/05/98

QC Batch Number: GC073198BTEX03A
Instrument ID: GCHP3

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	6.2	27

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	126

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: Arco 205-003.1A, fac. #0608
Sample Descript: 17349VM
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9807H97-01

Sampled: 07/29/98
Received: 07/30/98

Analyzed: 07/31/98
Reported: 08/05/98

QC Batch Number: GC073198BTEX03A
Instrument ID: GCHP3

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	125	860
Benzene	1.2	20
Toluene	1.2	2.1
Ethyl Benzene	1.2	N.D.
Xylenes (Total)	1.2	N.D.
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	126

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Ted Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group	Client Proj. ID: Arco 205-003.1A, fac. #0608	Sampled: 07/29/98
2025 Gateway Place, Suite 440	Sample Descript: 17372VM	Received: 07/30/98
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: EPA 8260	Analyzed: 08/04/98
Attention: Shaw Garakani	Lab Number: 9807H97-02	Reported: 08/05/98

QC Batch Number: MS080198MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	12	1100

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group
2[illegible]5 Gateway Place, Suite 440
S[illegible] Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: Arco 205-003.1A, fac. #0608
Sample Descript: 17372VM
Matrix: LIQUID
Analysis Method: EPA 8020
Lab Number: 9807H97-02

Sampled: 07/29/98
Received: 07/30/98

Analyzed: 07/31/98
Reported: 08/05/98

QC Batch Number: GC073198BTEX03A
Instrument ID: GCHP3

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	10	940

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
025 Gateway Place, Suite 440
an Jose, CA 95110

Attention: Shaw Garakani

Client Proj. ID: Arco 205-003.1A, fac. #0608
Sample Descript: 17372VM
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9807H97-02

Sampled: 07/29/98
Received: 07/30/98

Analyzed: 07/31/98
Reported: 08/05/98

Batch Number: GC073198BTEX03A
Instrument ID: GCHP3

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
PPH as Gas	200	N.D.
Benzene	2.0	N.D.
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
ylenes (Total)	2.0	N.D.
hromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
rifluorotoluene	70	130	106

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Ted Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Client Proj. ID: Arco 205-003.1A, fac. #0608
Lab Proj. ID: 9807H97

Received: 07/30/98
Reported: 08/05/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of_____ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

MTBE6W Note:
A high purity mtbe spectral match was not possible for sample 9807H97-01 because of 3-methyl pentane interference. However the mtbe quantitation is not affected.

SEQUOIA ANALYTICAL

Rod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Shaw Garakani

Client Project ID: Arco 205-003.1A, Fac. #0608
Matrix: LIQUID
Work Order #: 9807H97 01, 02
Reported: Aug 6, 1998

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	MS080198MTBEH6A
Analy. Method:	EPA 8260
Prep. Method:	

Analyst:	M. Williams
MS/MSD #:	9807H8706
Sample Conc.:	N.D.
Prepared Date:	N.A.
Analyzed Date:	8/1/98
Instrument I.D.#:	H6
Conc. Spiked:	50 µg/L
Result:	49
MS % Recovery:	98
Dup. Result:	49
MSD % Recov.:	98
RPD:	0.0
RPD Limit:	0-25

LCS #:	LCS080498
Prepared Date:	8/4/98
Analyzed Date:	8/4/98
Instrument I.D.#:	H6
Conc. Spiked:	50 µg/L
LCS Result:	52
LCS % Recov.:	104

MS/MSD	60-140
LCS	70-130
Control Limits	

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

ARCO Products Company
Division of AtlanticRichfieldCompany

Task Order No. [redacted]

ARCO Facility no. 0608	City (Facility) 17601 Hesperian Blvd San Lorenzo	Project manager (Consultant) Shaw Gauchani	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 4084417500	Fax no. (Consultant) 4084417539
Consultant name PEG	Address (Consultant) 2025 Gateway Pl. Suite 440 San Jose CA 95110		Contract number WA 22340

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH + MTBE EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐		
173494 MW		3		X		X	HCl	7/29/98	13:30		X											
173721 MW		3		↓		↓	↓	↓	14:15		↓											

Special detection Limit/reporting

Special QA/QC

JUL 30 12 57

Remarks
~~Hold until~~ KF
~~OK'd for~~ KF
~~analysis~~ KF

Lab number

Turnaround time

Priority Rush 1 Business Day	X	
Rush 2 Business Days		☐
Expedited 5 Business Days		☐
Standard 10 Business Days		☐

Condition of sample:

Temperature received:

	Date	Time		Date	Time
Relinquished by sampler	7/29/98	16:00	Received by		
Relinquished by	7/30/98	10:40	Received by		
Relinquished by	7.30.98		Received by laboratory	7/30/98	1257

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APC-3292 (2-91)

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ~~Blaine~~ PEG
REC. BY (PRINT): MIKE / TERRI

WORKORDER: 9807H97
DATE OF LOG-IN: 7/30/98

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s): Present / (Absent) Intact / Broken*
2. Custody Seal #: Put in Remarks Section
3. Chain-of-Custody: (Present) / Absent*
4. Traffic Reports or Packing List: Present / (Absent)
5. Airbill: Airbill / Sticker, Present / (Absent)
6. Airbill #:
7. Sample Tags: (Present) / Absent
   Sample Tags #s: (Listed) / Not Listed on Chain-of-Custody
8. Sample Condition: (Intact) / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? (Yes) / No*
10. Proper Preservatives used: (Yes) / No*
11. Date Rec. at Lab: 7/30/98
12. Time Rec. at Lab: 1257
13. Temp Rec. at Lab: 5°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
01		17349 VM	(3x) VOAs	L	7/29/98	
02		17372 VM	↓	↓	↓	

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

Revision 6/18/97

JUN 05 1998

FIELD SERVICES / O & M REQUEST

SITE INFORMATION FORM

Project #:330-006.2L

☐ 1st time visit

Station #:0608

☐ 1st ☒ 2nd ☐ 3rd ☐ 4th **Date of Request: 2Q98**

Site Address:17601 Hesperian Blvd. San Lorenzo, California

☐ Monthly **Ideal Field Date: 6/3,4**

☐ Semi-Monthly **Purge water** 420

County: Alameda

☐ Weekly **Budget Hrs.**_____

Project Manager: Shaw Garakani

☐ One time Event **Actual Hrs.** 18

Requestor: Krissy Flesoras ☐ **Other.**_____ **Mob de Mob**_____

Client: Arco **Client P.O.C.:** M. Whelan. **Total Wells** 24

Prefield contacts:All Homeowners are to be contacted 1-2 weeks in advance of arrival.

Field Tasks: For General Description

Perform 2q98 sampling event. **Purge all wells, irrigation wells for at least 15 minutes before sampling. Also record time when purging starts and when purging is stopped. Notify homeowners 1 week and the day before sampling event.** DTW on all wells. Instruct Sequoia to run EPA 8260 on any homeowner well with MTBE greater than 35 ppb. Take Dissolved Oxygen readings on all wells. Please visit those homeowner wells to verify whether or not the pump is non-operational. Using your best judgement, please note the problem and what it would take to repair pump/well. Sample Homeowner **WA#22340** Wells on 6/3/98. (633H, 17349V 17372VM

Comments, remarks, from Field Staff (include problems encountered

Sampled Homeowner's wells that were operational - purged all wells, Contained water from 633H, 17349 VM, 17372 VM Purge & sampled all ground water and Extraction wells except MW15-(Van parked over well both days)

Completed by: Don Montgomery Date: 6/4/98

Checked by:_____

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
330-006.2L	608	17601 Hesperian San Lorenzo	2Q98	Shaw Garakani			Sequoia 22340	Mike Whelan

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Top of Screen	Casing Diameter	Well goes Dry?	Comments
MW-5	16		QLY	MtBE/GAS/BTEX	TOB/TOC	14		4"	YES	Please repair or replace
MW-7	15		QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	NO	missing or broken locks, j-plugs,
MW-8	17		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	NO	slip caps, lid bolts ect. Please
MW-9	14		QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	note any repairs performed or that
MW-10	18		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	need to be performed.
MW-11	10		QLY	MtBE/GAS/BTEX	TOB/TOC	19		3"	YES	
MW-13	9		QLY	MtBE/GAS/BTEX	TOB/TOC	23.5		3"	YES	
MW-14	8		QLY	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	
MW-15	7		QLY	MtBE/GAS/BTEX	TOB/TOC	24		3"	YES	
MW-16	6		QLY	MtBE/GAS/BTEX	TOB/TOC	23		3"	YES	
MW-18	5		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-19	4		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-21	3		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-22	2		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-23	1		QLY	MtBE/GAS/BTEX	TOB/TOC	22		3"	YES	
MW-24	11		QLY	MtBE/GAS/BTEX	TOB/TOC	20		2"	YES	
MW-25	12		QLY	MtBE/GAS/BTEX	TOB/TOC	21		2"	YES	
MW-26	13		QLY	MtBE/GAS/BTEX	TOB/TOC	20		2"	YES	
E-1A	19		QLY	MtBE/GAS/BTEX	TOB/TOC	26		6" ~~2"~~	YES	

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN DATE: 6/3,4/98

CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: Don Johnson DAY OF WEEK: Wed, Thu

PROBE TYPE/ID No.
- ☐ Oil/Water IF/ ____
- ☒ H_2O level indicator 31
- ☐ 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	SERARATE-PHASE HYDROCARBONS (SPH) SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	COLOR: Weathered	Gas	Oil	VISCOSITY: Lite	VISCOSITY: Medium	VISCOSITY: Heavy	LIQUID REMOVED (gallons) SPH / H_2O
6/4	16	MW5	8:25	✓	✓	✓	✓	✓		11.24 / 10.82	11.24 / 10.82										
6/4	15	MW7	7:48	✓	✓	✓	✓	✓		11.30 / 10.80	11.30 / 10.80										
	17	MW8	14:05	✓	✓	✓	✓	✓		10.25 / 9.35	10.25 / 9.35										
6/4	14	MW9	10:25	✓	✓	✓	✓	✓		9.35 / 8.84	9.35 / 8.84										
6/4	18	MW10	10:45	✓	✓	✓	✓	✓		8.59 / 8.56	8.59 / 8.56										
	10	MW11	13:40	✓	✓	✓	✓	✓		10.27 / 9.82	10.27 / 9.82										
6/4	9	MW13	7:15	✓	✓	✓	✓	✓		12.63 / 12.33	12.63 / 12.33										
	8	MW14	13:20	✓	✓	✓	✓	✓		8.52 / 8.24	8.52 / 8.24										
	7	MW15								/	/										

Comments: ____

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-0062 LOCATION: 1760 HESPERIAN BLVD SAN LEANDRO DATE: 6/3,4/98

CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: Don Water Company DAY OF WEEK: Wed, Thu

PROBE TYPE/ID No.
- ☐ Oil/Water IF/ _____
- ☒ H_2O level indicator 31
- ☐ 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	SERARATE-PHASE HYDROCARBONS (SPH) SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	COLOR: Weathered	COLOR: Gas	COLOR: Oil	VISCOSITY: Lite	VISCOSITY: Medium	VISCOSITY: Heavy	LIQUID REMOVED (gallons) SPH / H_2O
6	MW-16	12:55	✓	✓	✓	✓	—		10.55 / 10.02	10.55 / 10.02										
~~8~~	~~MW-17~~																			
9	MW-18	12:35	✓	✓	✓	✓	✓		9.57 / 9.37	9.57 / 9.37										
~~4~~	MW-19	12:10	✓	✓	✓	✓	✓		9.15 / 8.96	9.15 / 8.96										
~~5~~	~~MW-20~~																			
3	MW-21	11:50	✓	✓	✓	✓	✓		9.57 / 9.05	9.57 / 9.05										
2	MW-22	11:30	✓	✓	✓	✓	✓		10.00 / 9.25	10.00 / 9.75										
1	MW-23	8:05	✓	✓	✓	✓	✓	22	11.03 / 10.75	11.03 / 10.75										
19	EI-A	9:47	✓	✓	—	✓	—		8.85	8.85										

Comments: _____

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO DATE: 6/4/98

CLIENT/STATION NO.: ARCO/0608 FIELD TECHNICIAN: Don Waterman DAY OF WEEK: Thur

PROBE TYPE/ID No.
- ☐ Oil/Water IF/
- ☒ H_2O level indicator 31
- ☐ 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	SEPARATE-PHASE HYDROCARBONS (SPH): SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons) SPH / H_2O
6/4	11	MW24	9:35	✓	✓	✓	✓	–		12.00 / 11.63											
6/4	12	MW-25	8:00	✓	✓	✓	✓	–		11.00 / 10.42											
6/4	13	MW-26	9:35	–	–	–	–	–		11.22 / 10.78											

Comments:

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-5

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Watanpaug

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 11.24 TOB 10.82 TOC
Total depth: 14 TOB _____ TOC
Date: 6/4/98 Time (2400): 8:25

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 11.24 = 2.76 x Gal/Linear Foot 0.66 = 1.82 x Number of Casings 3 = Calculated Purge 5.46

DATE PURGED: 6/4/98 START: 8:30 END (2400 hr): 8:40 PURGED BY: Dm

DATE SAMPLED: 6/4/98 START: 8:45 END (2400 hr): _____ SAMPLED BY: Dm

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
8:34	~~6~~ 2	6.81	640	62.5	Cloudy	light	faint
8:37	4	6.78	710	63.7	Cloudy	light	faint
8:40	5.5	6.83	830	64.2	Cloudy	light	faint

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: 31-#11
- ☐ Centrifugal Pump: _____
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-1P
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-5	6/4/98	8:45	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: Dtw 1.4

SIGNATURE: Don Watanpaug

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-7

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watanpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 11.30 TOB 10.80 TOC
Total depth: 19 TOB _____ TOC
Date: 6/4/98 Time (2400): 7:40

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 - DTW 11.3 = 7.70 x Gal/Linear Foot 0.38 = 2.93 x Number of Casings 3 = Calculated Purge 9

DATE PURGED: 6/4/98 START: 7:45 END (2400 hr): 7:50 PURGED BY: DW
DATE SAMPLED: 6/4/98 START: 7:53 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
7:49	3	6.83	940	63.4	Cloudy	Light	Faint
7:48	6	6.93	870	64.4	Cloudy	Light	Faint
7:50	9	6.90	1040	64.3	Cloudy	Light	Faint

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

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☑ Centrifugal Pump: 3
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-9
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-7	6/4/98	7:53	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO - 0.7 ppm

SIGNATURE: Don Watanpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-8

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Velasquez

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 10.25 TOB 9.35 TOC
Total depth: 22 TOB _____ TOC
Date: 6/ 198 Time (2400): 14:05

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 10.25 = 11.75 x Gal/Linear Foot .38 = 4.47 x Number of Casings 3 = Calculated Purge 13.41

DATE PURGED: 6/3 /98 START: 14:10 END (2400 hr): 14:16 PURGED BY: Don

DATE SAMPLED: 6/3 /98 START: 14:20 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
14:12	4.5	6.89	920	64.6	Cloudy	Light	Faint
14:14	9	6.96	860	65.4	cloudy	Light	faint
14:16	14	7.06	870	65.5	cloudy	Light	faint

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: 31
- ☐ Dedicated: _____
- ☐ Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-8	6/3/98	1420	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO2 - 0.3 ppm

SIGNATURE: Don Velasquez

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-9

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 9.35 TOB 8.84 TOC
Total depth: 19 TOB _____ TOC
Date: 6/4/98 Time (2400): 10:25

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 - DTW 9.35 = 9.65 x Gal/Linear Foot 0.38 = 3.67 x Number of Casings 3 = Calculated Purge 11

DATE PURGED: 6/4/98 START: 10:30 END (2400 hr): 10:36 PURGED BY: DW

DATE SAMPLED: 6/4/98 START: 10:40 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:32	3.6	6.90	1040	65.4	cloudy	light	none
10:34	7.2	6.95	1180	65.7	cloudy	light	none
10:36	11	7.00	1180	65.7	cloudy	light	none

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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-9	6/4/98	10:40	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO2 - 2.0

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-10

CLIENT/STATION No.: ARCO/ 0608 FIELD TECHNICIAN: Don Watanyo

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 9.59 TOB 8.96 TOC
Total depth: 22 TOB _____ TOC
Date: 6/4/98 Time (2400): 10:45

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 9.59 = 12.41 x Gal/Linear Foot 0.38 = 4.72 x Number of Casings 3 = Calculated Purge 14

DATE PURGED: 6/4/98 START: 10:50 END (2400 hr): 10:55 PURGED BY: Don

DATE SAMPLED: 6/4/98 START: 11:00 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:52	5	6.74	1020	64.8	clear	trace	faint
10:53	10	6.80	1040	64.8	clear	trace	faint
10:55	14	6.87	1020	64.9	clear	trace	faint

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

Pumped dry Yes (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 31
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-16
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-10	6/4/98	11:00	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO2 0.0

SIGNATURE: Don Watanyo

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-11

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Watanabe

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 10.27 TOB 9.82 TOC
Total depth: 19 TOB _____ TOC
Date: 6/1/98 Time (2400): 13:40

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 10.27 = 8.73 x Gal/Linear Foot 0.38 = 3.32 x Number of Casings 3 = Calculated Purge 10

DATE PURGED: 6/3/98 START: 13:45 END (2400 hr): 13:50 PURGED BY: Don

DATE SAMPLED: 6/3/98 START: 13:55 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
13:46	3.3	6.76	1000	63.6	cloudy	light	none
13:49	6.6	6.92	990	64.1	cloudy	light	none
13:50	10	6.88	990	64.1	cloudy	light	none

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: _____
- ☒ Centrifugal Pump: 31
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-B
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-11	6/3/98	13:55	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2: 0.8 ppm

SIGNATURE: Don Watanabe

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-13

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watanyo

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 12.63 TOB 12.33 TOC
Total depth: 23.5 TOB _____ TOC
Date: 6/4/98 Time (2400): 7:15

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 23.5 - DTW 12.63 = 10.87 x Gal/Linear Foot 0.38 = 4.13 x Number of Casings 3 = Calculated Purge 12.39

DATE PURGED: 6/4/98 START: 7:20 END (2400 hr): 7:28 PURGED BY: Don

DATE SAMPLED: 6/4/98 START: 7:30 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
7:~~16~~23	4	6.83	980	64.7	cloudy	light	none
7:25	8	7.03	970	64.9	cloudy	light	none
7:28	12	7.12	970	65.0	cloudy	light	none

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: _____
- ☒ Centrifugal Pump: 31
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-8
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-13	6/4/98	7:30	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO2 1.3 ppm

SIGNATURE: Don Watanyo

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-14

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watanabe

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 8.52 TOB 8.24 TOC
Total depth: _____ TOB _____ TOC
Date: 6/ 19/ 98 Time (2400): 13:20

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 - DTW 8.52 = 15.41 x Gal/Linear Foot 0.38 = 5.88 x Number of Casings 3 = Calculated Purge 17.64

DATE PURGED: 6/ 19/ 98 START: 13:22 END (2400 hr): 13:35 PURGED BY: Don

DATE SAMPLED: 6/ 19/ 98 START: 13:35 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
13:26	6	6.85	960	63.5	cloudy	light	none
13:30	12	7.25	980	64.4	cloudy	light	none
13:35	18	7.66	1020	64.5	cloudy	light	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: _____
- ☑ Centrifugal Pump: 31
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-7
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-14	6/3/98	13:35	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 = 4.1 ppm

SIGNATURE: Don Watanabe

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-15

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Valenzuela

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: 24 TOB _____ TOC
Date: 6/ 198 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 - DTW _____ = _____ x Gal/Linear Foot 0.38 = _____ x Number of Casings 3 = Calculated Purge _____

DATE PURGED: 6/ 198 START: _____ END (2400 hr): _____ PURGED BY: Dnv

DATE SAMPLED: 6/ 198 START: _____ END (2400 hr): _____ SAMPLED BY: Dnv

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
					Cobalt 0-100 Clear Cloudy Yellow Brown	NTU 0-200 Heavy Moderate Light Trace	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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-15	6/ 198		3	40ml	VOA	HCl	GAS/BTEX.

REMARKS: Van parked over well both wells & there could not access to sample

SIGNATURE: Don Valenzuela

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-16

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watanyan

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 10.55 TOB 10.02 TOC
Total depth: 23 TOB _____ TOC
Date: 6/3/98 Time (2400): 12:55

Probe Type and I.D. #: ☐ Oil/Water interface _____ ☒ Electronic indicator 21 ☐ 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 - DTW 10.55 = 12.45 x Gal/Linear Foot 0.38 = 4.73 x Number of Casings 3 = Calculated Purge 14.19

DATE PURGED: 6/3/98 START: 12:57 END (2400 hr): 13:05 PURGED BY: Dw
DATE SAMPLED: 6/3/98 START: 13:10 END (2400 hr): _____ SAMPLED BY: Dw

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
13:00	5	6.83	920	63.8	Brown	mod	none
13:03	10	6.71	870	63.8	Cloudy	mod	none
13:05	14	6.89	850	63.9	Cloudy	light	none

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
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: 21 ☐ Dedicated: _____
☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
☑ Bailer: 31-6
☐ Dedicated: _____
☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-16	6/3/98	1310	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 1.6 ppm

SIGNATURE: Don Watanyan

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-18

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watanyan

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 9.57 TOB 9.27 TOC
Total depth: 22 TOB _____ TOC
Date: 6/ 198 Time (2400): 12:35

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 9.57 = 12.43 x Gal/Linear Foot 0.38 = 4.72 x Number of Casings 3 = Calculated Purge 14.16

DATE PURGED: 6/3/98 START: 12:40 END (2400 hr): 12:46 PURGED BY: Don

DATE SAMPLED: 6/3/98 START: 12:50 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
12:40	5	6.83	1080	65.3	Cloudy	light	none
12:43	10	6.93	1020	65.7	Cloudy	light	none
12:46	14	7.04	1010	65.9	Cloudy	light	none

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: _____
- ☑ Centrifugal Pump: 31
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-5
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-18	6/3/98	12:50	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 2.8 ppm

SIGNATURE: Don Watanyan

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-19

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Watanyo

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 9.15 TOB 8-96 TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 Time (2400): 12:10

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 9.15 = 12.85 x Gal/Linear Foot 0.38 = 4.88 x Number of Casings 3 = Calculated Purge 14.64

DATE PURGED: 6/3/98 START: 12:15 END (2400 hr): 12:21 PURGED BY: Don

DATE SAMPLED: 6/3/98 START: 12:25 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
12:15	5	6.73	1050	65.9	cloudy	light	none
12:18	10	6.94	980	65.8	cloudy	light	none
12:21	15	6.91	980	65.9	cloudy	light	none

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: _____
- ☒ Centrifugal Pump: 31
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-4
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-19	6/3/98	12:25	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO = 2.2

SIGNATURE: Don Watanyo

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-21

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Watanpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 9.57 TOB 9.05 TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 Time (2400): 11:50

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 - DTW 9.57 = 12.43 x Gal/Linear Foot 0.38 = 4.72 x Number of Casings 3 = Calculated Purge 14

DATE PURGED: 6/3/98 START: 11:55 END (2400 hr): 1203 PURGED BY: Dw

DATE SAMPLED: 6/3/98 START: 12:05 END (2400 hr): _____ SAMPLED BY: Dw

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:57	5	6.73	1050	65.9	Cloudy	light	none
12:00	10	6.86	940	65.4	Cloudy	light	none
12:03	14	6.81	880	65.4	Cloudy	light	none

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: D1
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-3
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-21	6/3/98	12:05	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 0.6

SIGNATURE: Don Watanpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-22

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 10.00 TOB 9.75 TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 Time (2400): 11:30

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 - DTW 10 = 12 x Gal/Linear Foot 0.38 = 4.56 x Number of Casings 3 = Calculated Purge 13.68

DATE PURGED: 6/3/98 START: 11:33 END (2400 hr): 11:42 PURGED BY: DW

DATE SAMPLED: 6/3/98 START: 11:45 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:36	4.5	6.94	1200	64.6	cloudy	light	none
11:39	9	7.05	~~1180~~	64.5	cloudy	light	none
11:42	13.5	7.00	1150	64.3	cloudy	light	none

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: _____
- ☑ Centrifugal Pump: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 3-2
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-22	6/3/98	11:45	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 3.2

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-23

CLIENT/STATION No.: ARCO / 0608 FIELD TECHNICIAN: Don Watanga

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 11.03 TOB 10.75 TOC
Total depth: 22 TOB _____ TOC
Date: 6/3/98 Time (2400): 8:05

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 - DTW 11.03 = 10.97 x Gal/Linear Foot 0.38 = 4.17 x Number of Casings 3 = Calculated Purge 12.5

DATE PURGED: 6/3/98 START: 11:10 END (2400 hr): _____ PURGED BY: Dmw

DATE SAMPLED: 6/3/98 START: 11:20 END (2400 hr): _____ SAMPLED BY: Dmw

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:10	4	6.80	930	67.2	Clear	Light	None
11:13	8	6.97	910	65.6	Clear	Light	None
11:16	12	6.99	910	66.7	Clear	Light	None

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: _____
- ☒ Centrifugal Pump: 3 1
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 3 1 - 1
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-23	6/3/98	11:20	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 2.3 ppm

SIGNATURE: Don Watanga

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.21 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA WELL ID #: MW-24

CLIENT/STATION No.: ARCO/ 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 12.00 TOB 11.63 TOC
Total depth: 20 TOB _____ TOC
Date: 6/4/98 Time (2400): 9:55

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 12.00 = 8 x Gal/Linear Foot 0.17 = 1.36 x Number of Casings 3 = Calculated Purge 4

DATE PURGED: 6/4/98 START: 10:00 END (2400 hr): 10:11 PURGED BY: Don

DATE SAMPLED: 6/4/98 START: 10:15 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:05	1.4	6.79	1260	65.6	Brown	mod	none
10:08	2.8	6.94	1290	65.8	Brown	mod	none
10:11	4	6.79	1250	65.8	Brown	mod	none

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: 31-14
- ☐ Centrifugal Pump: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-14
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-24	6/4/98	10:15	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: Ants everywhere in well box
DO2 0.8

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-25

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 11 TOB 10.42 TOC
Total depth: 21 TOB _____ TOC
Date: 6/4/98 Time (2400): 8:20

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 11 = 10 x Gal/Linear Foot 0.17 = 1.7 x Number of Casings 3 = Calculated Purge 5.1

DATE PURGED: 6/4/98 START: 8:05 END (2400 hr): 8:12 PURGED BY: Don

DATE SAMPLED: 6/4/98 START: 8:15 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
~~8:09~~	1.7	6.75	1150	62.0	Cloudy	Light	none
8:10	3.4	7.04	1160	62.1	Cloudy	Light	none
8:12	5.0	7.03	1170	63.1	Cloudy	Light	none

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: 31-10
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-10
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-25	6/4/98	8:15	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 0.8

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.21 LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: MW-26

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: 11.22 TOB 10.78 TOC
Total depth: 20 TOB _____ TOC
Date: 6/4/98 Time (2400): 9:35

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 - DTW 11.22 = 8.78 x Gal/Linear Foot 0.17 = 1.45 x Number of Casings 3 = Calculated Purge 4.5

DATE PURGED: 6/4/98 START: 9:38 END (2400 hr): 9:45 PURGED BY: Don
DATE SAMPLED: 6/4/98 START: 9:47 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:40	1.5	6.84	1110	64.5	Brown	mod	none
9:43	3.0	7.19	1100	65.3	Brown	mod	none
9:45	4.5	6.94	1140	65.6	Brown	mod	none

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: 31-13
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-13
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-26	6/4/98	9:47	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO 2.1 ppm

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 HESPERIAN BLVD SAN LORENZO CA. WELL ID #: E-1A

CLIENT/STATION No.: ARCO/0608 FIELD TECHNICIAN: Don Intemann

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB 8.85 TOC
Total depth: 26 TOB _____ TOC
Date: 6/4/98 Time (2400): 8:47

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator 31
- ☐ 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 26 - DTW 8.85 = 17.15 x Gal/Linear Foot 1.5 = 25.73 x Number of Casings 3 = Calculated Purge 77

DATE PURGED: 6/4/98 START: 8:53 END (2400 hr): 9:15 PURGED BY: Don
DATE SAMPLED: 6/4/98 START: 9:15 END (2400 hr): _____ SAMPLED BY: Don

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:00	26	6.77	770	64.8	Cloudy	light	mod
9:07	52	6.91	1060	65.7	clear	trace	~~mod~~ faint
9:15	77	6.88	1120	65.6	clear	trace	~~mod~~ faint

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

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 31
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: 31-12
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
E-1A	6/4/98	9:15	3	40ml	VOA	HCl	GAS/BTEX

REMARKS: DO_2 - 1.5 ppm

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

QUARTERLY CONTACT LIST:
Summary of Domestic Wells Sampling Contacts
ARCO Service Station #0608
17601 Hesperian, San Lorenzo

CALL AT LEAST ONE WEEK IN ADVANCE OF EVENT EACH QUARTER
Document with copy of this log in project file
DOCUMENT EVENT WITH A SAMPLING FORM FROM ALL HOMES WHETHER SAMPLED OR NOT!!!!!!!!!!!!!!

Address	Contact Name Contact Telephone Number	Date(s) Contacted	Pump Assessment	Notes
590 Hacienda	Mr. & Mrs. Silva (510) 276-1534	5/26/98 replied 5/27/98	operational	OKAY TO SAMPLE Homeowner prefers sampling be done early in the morning on June 3rd.
633 Hacienda	Mr. Dahmann (510) 276-3860	5/26/98	operational	OKAY TO SAMPLE ANYTIME
642 Hacienda	Ms. Corregedor (510) 481-1063	5/27/98	operational	OKAY TO SAMPLE ANYTIME
675 Hacienda	Mr. & Mrs. Roberts (510) 276-7389	Left messages on 5/26/98 & 5/2798, Homeowner returned call on 5/29/98	non-operational	OKAY TO SAMPLE ANYTIME - She doesn't believe that the technician can even tap the well. It is currently non-operational and has been for over ten years. NO ONE HOME
17348 Via Encinas	Mrs. Candice Luehrs (510)278-9059	5/26/98	non-operational	OKAY TO SAMPLE ANYTIME NO ONE HOME
17197 Via Magdalena	Mr. Schrag (510) 278-1904	5/27/98	operational	OKAY TO SAMPLE ANYTIME

QUARTERLY CONTACT LIST:
Summary of Domestic Wells Sampling Contacts
ARCO Service Station #0608
17601 Hesperian, San Lorenzo

CALL AT LEAST ONE WEEK IN ADVANCE OF EVENT EACH QUARTER
Document with copy of this log in project file
DOCUMENT EVENT WITH A SAMPLING FORM FROM ALL HOMES WHETHER SAMPLED OR NOT!!!!!!!!!!!!!!

Address	Contact Name Contact Telephone Number	Date(s) Contacted	Pump Assessment	Notes
17203 Via Magdalena	Mrs. Toles (510)276-6797	527/98	operational Pump is not working Hums does not pump	OKAY TO SAMPLE ANYTIME AFTER 10:00 A.M. ON JUNE 3RD. Homeowner would like to discuss the current condition of well with technician before he leaves property.
17302 Via Magdalena	Mr. & Mrs. Johanson (510) 278-5987	5/28/98	non-operational	PUMP HAS STILL NOT BEEN FIXED & THERE IS NO ESTIMATE OF WHEN IT MIGHT BE REPAIRED. Homeowner says her son works too much to fix it. Believes the problem is a broken foot valve.
17349 Via Magdalena Purge	Mr. Kast (510)278-1263	5/27/98	operational	OKAY TO SAMPLE, KNOCK FIRST. IF HOMEOWNER IS NOT HOME, HE GRANTED ACCESS TO TECHNICIAN TO JUST ENTER
17371 Via Magdalena	Mr. Manry (510) 317-9724	5/27/98, 5/28/98 and 5/29/98	Unknown (previously operational)	UNABLE TO CONTACT HOMEOWNER. Telephone just rings - No voice mail or answering machine. Tried several times.
17372 Via Magdalena Purge	Mr. Pimental (510) 278-6304	5/27/98	operational	OKAY TO SAMPLE ANYTIME

WELL SAMPLING REQUEST

SAMPLING PROTOCOL								
Project No.	Station #	Project Name	SEQUENCE	Project Manager	Approval	Date/s	Laboratory:	Client Engineer:
330-006.2L	608	17601 Hesperian San Lorenzo	2Q98	Shaw Garakani			Sequola 22340	Mike Wheilan

Well Number	Ideal Sampling Order	Sample I.D.	Sampling Frequency	Analyses	TOB TOC	Well Depth	Casing Diameter	Top of Screen	Well goes Dry?	Comments
Mr/Mrs Silva		590 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					Sample early AM on 6/3/98.
Mr. Dahmann		633 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime.
Mrs Albright		634 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					Access Denied
Ms. Corregedor		642 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime.
Mr/Mrs Roberts		675 Hacienda	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime. See notes[a].
Mr Luehrs		17348 Via Encinas	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime. See notes[b].
Mr. Schrag		17197 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime.
Cavalry Church		17200 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Well covered over
Mrs Toles		17203 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Sample after 10 AM, 6/3/98. See notes[c].
Mr/Mrs Johanson		17302 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					See notes[d].
Mr. Kast		17349 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime. Knock first[e].
Mr. Manry		17371 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Access previously denied[f].
Mr. Pimental		17372 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Okay to sample anytime.
Mr. Whaley		17393 Via Magdalena	QLY	GAS/BTEX/MtBE	TOB/TOC					Well Destroyed 7/97.

a. Owner not sure if technician can even tap the well. It is currently non-operational and has been for over ten years (non-operational, 4Q97 and 1Q98).

b. Owner has dog (you may knock first). Pump non-operational 4Q97 and owner not reached 1Q98.

c. Knock first. Pump operational. Homeowner would like to discuss the current condition of the well with the tech before he leaves the property. Pump not pumping water, 1Q98.

d. Pump non-operational since 7/97. Owner says her son has not had the time to fix it and believes that the problem is a broken foot valve.

e. If homeowner is not home, access is still granted.

f. Could not be contacted.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 590H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/3/98 START: 8:45 END (2400 hr): 8:50 PURGED BY: DW

DATE SAMPLED: 6/3/98 START: 8:54 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
8:50		7.03	890	65.2	clear	trace	none

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: _____
- ☐ Centrifugal Pump: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMET:
590H	6/3/98	8:54	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Purge start @ 8:45 – 8:50

DO = 3.8 ppm

PACIFIC ENVIRONMENTAL GROUP, INC

SIGNATURE: Don Watenpaugh

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 633H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 Time (2400): 8:20

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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/3/98 START: 8:20 END (2400 hr): 8:35 PURGED BY: DW

DATE SAMPLED: 6/3/98 START: 8:40 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
8:35	NA	6.94	960	64.5	clear	trace	none

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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETE
633H	6/3/98	8:40	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Start @ 8:20 - 8:35 - ± 50 gallons
DO_2 - 1.3 ppm

PACIFIC ENVIRONMENTAL GROUP, INC.

SIGNATURE: Don Watenpaugh

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 642H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/3/98 START: _____ END (2400 hr): _____ PURGED BY: DW

DATE SAMPLED: 6/3/98 START: _____ END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:10		6.93	880	65.3	clear	none	none

Color: Coast 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: _____
- ☐ Dedicated: _____
- ☒ Other: Grab

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
642H	6/3/98	9:15	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Purge started 9:00 - 9:10

DO_2 -

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 675 H

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Waterpayl

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/ 198 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/ 198 START: _____ END (2400 hr): _____ PURGED BY: Dm

DATE SAMPLED: 6/ 198 START: _____ END (2400 hr): _____ SAMPLED BY: Dm

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
					Cobalt 0-100 Clear Cloudy Yellow Brown	NTU 0-200 Heavy Moderate Light Trace	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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
675H	6/ 198		3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Pump does not go ON.

SIGNATURE: Don Waterpayl

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17197VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 Time (2400): 9:55

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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/3/98 START: 9:55 END (2400 hr): 10:00 PURGED BY: DW

DATE SAMPLED: 6/3/98 START: 10:05 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
10:05		6.86	830	64.6	clear	trace	none

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-100, 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: _____
- ☐ Dedicated: _____
- ☒ Other: Grab

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17197VM	6/3/98	10:05	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Purge start @ 9:55 - 10:00

O_2 - 3.2ppm

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17203 VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/ 198 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/ 198 START: _____ END (2400 hr): _____ PURGED BY: Dm

DATE SAMPLED: 6/ 198 START: _____ END (2400 hr): _____ SAMPLED BY: Dm

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

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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17203VM	6/ 198		3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Pump is non operational Hums and does not pump H2O. Needs new motor & pump

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17302 VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/ 198 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/ 198 START: _____ END (2400 hr): _____ PURGED BY: Dw

DATE SAMPLED: 6/ 198 START: _____ END (2400 hr): _____ SAMPLED BY: Dw

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

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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17302VM	6/ 198		3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Pump, motor goes on, does not pump water

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17348 VE

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/ 98 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/ 98 START: _____ END (2400 hr): _____ PURGED BY: DW

DATE SAMPLED: 6/ 98 START: _____ END (2400 hr): _____ SAMPLED BY: DW

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

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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17348VE	6/ 98		3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: No one home,

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17349 VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/3/98 START: 10:20 END (2400 hr): 10:35 PURGED BY: DW
DATE SAMPLED: 6/3/98 START: 10:40 END (2400 hr): _____ SAMPLED BY: DW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
		6.78	970	64.6	clear	trace	faint

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: _____
- ☐ Dedicated: _____
- ☒ Other: Grab

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17349VM	6/3/98	10:40	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Purge start 10:20 - 10:35 ≈ 50 gallons
DO2 - 4.9 ppm

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17371 VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/ 198 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/ 198 START: _____ END (2400 hr): _____ PURGED BY: Dw

DATE SAMPLED: 6/ 198 START: _____ END (2400 hr): _____ SAMPLED BY: Dw

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

Cobalt 0-100: Clear, Cloudy, Yellow, Brown
NTU 0-200: Heavy, Moderate, Light, Trace
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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17371VM	6/ 198		3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Unable to contact for permission to Sample No one home

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330-006.2L LOCATION: 17601 Hesperian Blvd SAN LORENZO CA WELL ID #: 17372 VM

CLIENT/STATION No.: ARCO 0608 FIELD TECHNICIAN: Don Watenpaugh

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: 6/3/98 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 _____ = _____ x Number of Casings _____ = Calculated Purge _____

DATE PURGED: 6/3/98 START: 9:30 END (2400 hr): 9:45 PURGED BY: Dw
DATE SAMPLED: 6/3/98 START: 9:48 END (2400 hr): _____ SAMPLED BY: Dw

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
		6.90	920	69.1	clear	trace	none

Color: Coast 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: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
17372VM	6/3/98	9:48	3	40ml	VOA	HCl	GAS/BTEX/MTBE

REMARKS: Purge Start @ 9:30 - 9:45 ≈ 50 gallons
DO₂ 1.8 ppm

SIGNATURE: Don Watenpaugh

PACIFIC ENVIRONMENTAL GROUP, INC.

[redacted] Products [redacted]
Division of AtlanticRichfieldCompany

Task Order No.

Chain of Custody

ARCO Facility no. 0608	City (Facility) 17601 Hesperian SAN LORENZO	Project manager (Consultant) Shaw Gaedtani	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408.441.7500	Fax no. (Consultant) 4084417539
Consultant name PEG	Address (Consultant) 2025 GATEWAY Pl. suite 440 SAN JOSE CA 95110		Contract number 22340

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH/MTBE EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐
MW 8		3		X		X	HCl	6/3/98	14:20		X									
MW 11		↓		↓		↓	↓	↓	13:55		↓									
MW 14									13:35											
MW 16									13:10											
MW 18									12:50											
MW 19									12:25											
MW 21									12:05											
MW 22									11:45											
MW 23		↓		↓		↓	↓	↓	11:20		↓									

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☒

Condition of sample:

Temperature received:

Relinquished by sampler: Don Lichtenwald	Date 6/3/98	Time 16:05	Received by
Relinquished by	Date	Time	Received by
Relinquished by	Date	Time	Received by laboratory / Date / Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APPC-3292 (2-91)

ARCO Products Company
Division of AtlanticRichfieldCompany

Task Order No.

Chain of Custody

ARCO Facility no. 0608	City (Facility) 17601 Hesperian Blvd San Lorenzo	Project manager (Consultant) Shaw Gazkani	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539	Contract number WA 22340
Consultant name PEG		Address (Consultant) 2025 GATEWAY Pl. Suite 440 SAN JOSE CA 95110	Method of shipment

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐
590H		3		X		X	HCl	6/3/98	8:54		X									
633H		↓		↓		↓	↓	↓	8:40		↓									
642H									9:15											
17197VM									10:05											
17349VM									10:40											
17372VM		↓		↓		↓	↓	↓	9:48		↓									

Special detection Limit/reporting

Special QA/QC

Remarks
Run EPA 8260 IF MEOE greater than 35 ppb

Lab number

Turnaround time
- Priority Rush 1 Business Day ☐
- Rush 2 Business Days ☐
- Expedited 5 Business Days ☐
- Standard 10 Business Days ☑

Condition of sample:		Temperature received:	
Relinquished by sampler Don W Stampanoni	Date 6/3/98 Time 16:05	Received by	
Relinquished by	Date Time	Received by	
Relinquished by	Date Time	Received by laboratory	Date Time

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant
APPC-3292 (2-91)

ARCO Products Company Division [redacted] Company [redacted] 3350062E Task Order No.

Chain of Custody

ARCO Facility no. 0608	City (Facility) 1760 Hesperian Blvd. San Lorenzo	Project manager (Consultant) Shaw Garakani	Laboratory name Sequoia
ARCO engineer M. Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7500	Fax no. (Consultant) 408 441 7539	Contract number WA #22340
Consultant name PEG		Address (Consultant) 2025 Gateway Pl. Suite 440, San Jose, CA 95110	Method of shipment

Sample I.D.	Lab no.	Container no.	Matrix: Soil	Matrix: Water	Matrix: Other	Preservation: Ice	Preservation: Acid	Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH (mtbe) EPA M602/8020/8015	TPH Modified 8015 Gas ☐ Diesel ☐	Oil and Grease 413.1 ☐ 413.2 ☐	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals ☐ Semi VOA ☐ VOA ☐	CAM Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead EPA 7420/7421 ☐	
MW5		3		X		X	HCl		8:45		X										
MW7		↓		↓		↓	↓		7:53		↓										
MW9									10:40												
MW10									11:00												
MW13									7:30												
MW24									10:15												
MW25									8:15												
MW26									9:47												
E-1A		↓		↓			↓		9:15		↓										

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number

Turnaround time

Priority Rush 1 Business Day ☐

Rush 2 Business Days ☐

Expedited 5 Business Days ☐

Standard 10 Business Days ☑

Condition of sample:

Temperature received:

	Date	Time	
Relinquished by sampler: Don Watterson	6/4/98	13:55	Received by
Relinquished by			Received by
Relinquished by			Received by laboratory

Date: Time:

Distribution: White copy — Laboratory; Canary copy — ARCO Environmental Engineering; Pink copy — Consultant

APPC-3292 (2-91)