

PACIFIC
ENVIRONMENTAL
GROUP, INC.

92 FEB 13 PM 1:37

February 13, 1992
Project 330-06.05

Mr. Kyle Christie
ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Re: Quarterly Monitoring Results
and Performance Evaluation
October to December 1991
ARCO Service Station 0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

Dear Mr. Christie:

This report presents the results of groundwater monitoring performed by Pacific Environmental Group, Inc. (PACIFIC) at the site referenced above. Included in this report is a performance evaluation of the remedial groundwater system. Groundwater samples were collected on December 19 and 20, 1991, and analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g), and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Groundwater monitoring procedures are documented in Attachment A.

RESULTS

The results of groundwater monitoring this quarter are generally consistent with previous quarters. Groundwater samples collected from the site wells contained non-detectable levels of TPH-g, with the exception of Wells MW-8, MW-10, and MW-15 through MW-17. TPH-g concentrations in these wells ranged between 75 and 5,300 parts per billion (ppb). Benzene was detected only in samples from Wells MW-8, MW-10, and MW-17 at concentrations ranging between 26 and 300 ppb. Well MW-5 was dry and therefore was not sampled. Separate-phase hydrocarbons were not observed in any site well this quarter. A

dissolved gasoline and benzene concentration map is presented as Figure 1. Current and historical analytical data is presented in Table 1.

Depth to water data indicated that groundwater flow was consistently to the southwest with an approximate gradient of 0.002. The December groundwater elevation from Well MW-8 was not used in contouring as it produced an anomalous high, which has not occurred historically. As discussed below, a groundwater depression has developed as a result of pumping Extraction Well E-1A. A groundwater elevation contour map based on the December 1991 data is presented as Figure 2.

REMEDIAL PERFORMANCE EVALUATION

Groundwater Treatment System

The data presented in this section covers the period from September 25, 1991 when initial adjusting and testing of the groundwater treatment system began, through December 19, 1991. The system was in full time operation by October 15, 1991. Details of the treatment system start-up were discussed in our December 16, 1991 Site Assessment and Quarterly Monitoring Report.

In order to evaluate treatment system performance, PACIFIC monitored water levels, instantaneous and average flow rates, and sampled the influent, effluent, and mid-point of the treatment system for TPH-g and BTEX compounds.

Table 2 presents the volume of groundwater extracted by the treatment system and the average flow rates between monitoring periods. Influent concentrations of TPH-g have ranged from non-detectable (less than 30 ppb) to 38 ppb while effluent concentrations have been non-detectable. Analytical results for the treatment system are summarized in Table 3. Certified analytical reports and chain-of-custody documentation are found in Attachment A.


The average flow rate for the system was 1.0 gallons per minute (gpm) for the period. Currently, the system is operating at a flow rate of 3 to 3.5 gpm. A total of 680,930 gallons of groundwater have been extracted during the period of operation. The treatment system has had no significant down time or mechanical failures since full time operation was initiated.

Groundwater elevation data indicates the groundwater extraction system has hydraulic control of the on-site dissolved hydrocarbon plume and extends 100 feet downgradient of the site (Figure 2).

If there are any questions regarding the contents of this report, please call.

Sincerely,

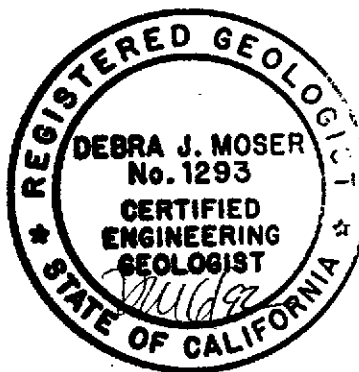
Pacific Environmental Group, Inc.



BF Brian Frus
Staff Engineer



Debra J. Moser
Senior Geologist
CEG 1293



Attachments: Table 1 - Summary of Groundwater Analytical Results
Table 2 - Treatment System Metered Volume
Table 3 - Treatment System Analytical Results
Figure 1 - Dissolved Gasoline and Benzene Concentration Map
Figure 2 - Groundwater Elevation Contour Map
Attachment A - Groundwater Sampling and Analytical Procedures
Certified Analytical Reports
Chain-of-Custody Documentation
Field Data Sheets

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Pamela Evans, Alameda County, Environmental Health
Mr. Richard Hiatt, Regional Water Quality Control Board -
San Francisco Bay Region

Table 1
Summary of Groundwater Analytical Results

Low-Boiling Hydrocarbons

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

Well Number (Elev.)	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	
MW-1	01/11/88	NA	300	20	10	50	80	
----- Well Destroyed -----								
MW-2	07/05/85	NA	32,000	1,000	690	NA*	1,500*	
	01/11/88	NA	3,300	804	115	168	166	
----- Well Destroyed -----								
MW-3 (33.27)	01/11/88	NA	1,800	20	20	80	60	
	03/07/89	21.31	150,000	4,600	5,200	5,600	13,000	
	06/21/89	20.42	63,000	2,700	5,800	3,300	12,000	
	12/12/89	19.81	----- Not Sampled--Insufficient Water Volume -----					
	03/29/90	20.06	1,100,000**	13,000	60,000	17,000	91,000	
	05/08/90	20.04	NS	NS	NS	NS	NS	
	06/22/90	NA	----- Not Sampled--Insufficient Water Volume -----					
	07/18/90	NA	----- Well Destroyed -----					
MW-4 (32.43)	01/11/88	NA	62,000	2,700	7,900	850	5,200	
	09/12/88	NA	----- Not Sampled--Separate-Phase Hydrocarbon -----					
	03/07/89	21.67	84,000	2,400	3,400	2,500	7,600	
	06/21/89	20.47	31,000	400	800	200	1,500	
	12/12/89	NA	----- Not Sampled--Well Dry -----					
	03/29/90	20.71	----- Not Sampled-0.01 foot Separate-Phase Hydrocarbon -----					
	05/08/90	20.24	NS	NS	NS	NS	NS	
	06/22/90	NA	----- Not Sampled--Well Dry -----					
07/18/90	NA	----- Well Destroyed -----						
MW-5 (33.99)	01/11/88	NA	31,000	4,000	2,700	3,800	5,500	
	03/07/89	21.25	1,300	340	ND	140	50	
	06/21/89	20.73	1,100	200	ND	130	40	
	12/12/89	NA	----- Not Sampled--Well Dry -----					
	03/29/90	20.69	----- Not Sampled--Insufficient Water Volume -----					
	05/08/90	NA	NS	NS	NS	NS	NS	
	06/22/90	20.47	----- Not Sampled--Insufficient Water Volume -----					
	09/19/90	20.00	----- Not Sampled--Well Dry -----					
	12/27/90	NA	----- Not Sampled--Well Dry -----					
	03/21/91	20.99	----- Not Sampled--Well Dry -----					
	06/26/91	20.74	----- Not Sampled--Well Dry -----					
	07/03/91	20.66	NS	NS	NS	NS	NS	
	09/24/91	NA	----- Not Sampled--Well Dry -----					
	10/04/91	NA	----- Not Sampled--Well Dry -----					
	12/19/91	NA	----- Not Sampled--Well Dry -----					

Table 1 (continued)
Summary of Groundwater Analytical Results

Low-Boiling Hydrocarbons

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

Well Number (Elev)	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-6 (E-1) (32.95)	06/21/89	20.47	1,700	170	170	85	290
	12/12/89	19.79	500	26	7	8	18
	03/29/90	20.56	130	14	9	4	11
	05/08/90	20.02	NS	NS	NS	NS	NS
	06/22/90	20.01	150	15	5	4	13
	07/18/90			----- Well Destroyed -----			
MW-7 (34.40)	04/13/90	NA	<50	<0.3	<0.3	<0.3	<0.3
	05/08/90	20.42	NS	NS	NS	NS	NS
	06/22/90	20.49	<50	0.5	1	0.6	3
	09/19/90	19.31	<50	<0.3	<0.3	<0.3	<0.3
	12/27/90	19.73	69	<0.3	0.3	0.4	2
	03/21/91	21.52	<30	<0.30	<0.30	<0.30	<0.30
	06/26/91	20.55	<30	<0.30	<0.30	<0.30	<0.30
	07/03/91	20.45	NS	NS	NS	NS	NS
	09/24/91	18.86	<30	<0.30	<0.30	<0.30	<0.30
	10/04/91	18.80	NS	NS	NS	NS	NS
	12/19/91	18.70	<30	<0.30	<0.30	<0.30	<0.30
MW-8 (32.79)	04/13/90	NA	4,900	350	16	450	33
	05/08/90	20.02	ND	NS	NS	NS	NS
	06/22/90	20.06	3,700	370	12	330	28
	09/19/90	18.84	140	4	3	3	3
	12/27/90	19.23	1,200	7	0.3	53	<0.3
	03/21/91	21.01	540	8.8	<6.0	21	9.6
	06/26/91	20.13	2,100	290	<6.0	56	<6.0
	07/03/91	20.04	NS	NS	NS	NS	NS
	09/24/91	18.82	260	51	0.34	7.9	<0.30
	10/04/91	18.78	NS	NS	NS	NS	NS
	12/19/91	19.44	5,300	300	<3.0	21	4.8
MW-9 (32.11)	04/13/90	NA	<50	<0.3	<0.3	<0.3	2
	05/08/90	20.09	NS	NS	NS	NS	NS
	06/22/90	20.18	12,000	200	3	250	180
	09/19/90	18.93	<50	<0.3	<0.3	<0.3	0.6
	12/27/90	19.34	<50	<0.3	<0.3	<0.3	<0.3
	03/21/91	21.17	<30	<0.30	<0.30	<0.30	<0.30
	06/26/91	20.19	<30	<0.30	<0.30	<0.30	<0.30
	07/03/91	20.09	NS	NS	NS	NS	NS
	09/24/91	18.84	<30	<0.30	<0.30	<0.30	<0.30
	10/04/91	18.82	NS	NS	NS	NS	NS
	12/19/91	18.69	<30	<0.30	<0.30	<0.30	<0.30

Table 1 (continued)
Summary of Groundwater Analytical Results

Low-Boiling Hydrocarbons

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

Well Number (Elev)	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-10 (31.67)	04/13/90	NA	10,000	150	4	280	200
	05/08/90	19.51	NS	NS	NS	NS	NS
	06/22/90	19.57	9,700	28	<0.3	131	210
	09/19/90	18.26	1,800	<0.3	4	0.8	10
	12/27/90	18.00	5,700	7	3	95	61
	03/21/91	20.56	6,900	22	<15	92	33
	06/26/91	19.67	9,300	51	<0.30	59	34
	07/03/91	19.51	NS	NS	NS	NS	NS
	09/24/91	18.27	360	8.6	5.2	14	6.2
	10/04/91	18.17	NS	NS	NS	NS	NS
	12/19/91	18.10	3,300	9.2	8.4	11	17
MW-11 (32.54)	04/13/90	NA	<50	<0.3	<0.3	<0.3	<0.3
	05/08/90	19.70	NS	NS	NS	NS	NS
	06/22/90	19.72	63	0.4	0.9	0.7	3
	09/19/90	18.45	<50	<0.3	<0.3	<0.3	<0.3
	12/27/90	18.88	<50	<0.3	<0.3	<0.3	<0.3
	03/21/91	20.69	<30	<0.30	<0.30	<0.30	<0.30
	06/26/91	19.85	<30	<0.30	<0.30	<0.30	<0.30
	07/03/91	19.73	NS	NS	NS	NS	NS
	09/24/91	18.51	<30	<0.30	<0.30	<0.30	<0.30
	10/04/91	18.36	NS	NS	NS	NS	NS
	12/19/91	18.25	<30	<0.30	<0.30	<0.30	<0.30
E-1A (MW-12) (33.06)	09/19/90	18.75	<50	7	0.9	1	2
	12/27/90	19.09	<50	3	0.5	1	1
	03/21/91	20.95	<30	4.2	<0.30	1.1	0.89
	06/26/91	20.16	41	6.3	<0.30	1.2	0.59
	07/03/91	20.06	NS	NS	NS	NS	NS
	09/24/91	10.59	NS	NS	NS	NS	NS
MW-13 (35.42)	07/03/91	20.23	<30	<0.30	<0.30	<0.30	<0.30
	09/24/91	18.97	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	18.76	<30	<0.30	<0.30	<0.30	<0.30
MW-14 (30.46)	07/03/91	19.41	<30	<0.30	<0.30	<0.30	<0.30
	09/24/91	18.16	<30	<0.30	<0.30	<0.30	<0.30
	10/04/91	18.08	NS	NS	NS	NS	NS
	12/19/91	18.07	<30	<0.30	<0.30	<0.30	<0.30
MW-15 (31.41)	07/03/91	18.98	570	1.8	1.0	1.0	2.2
	09/24/91	17.72	<30	<0.30	<0.30	<0.30	<0.30
	10/04/91	17.61	NS	NS	NS	NS	NS
	12/19/91	17.63	360	<0.60	<0.60	0.64	<0.60

Table 1 (continued)
Summary of Groundwater Analytical Results

Low-Boiling Hydrocarbons

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

Well Number (Elev)	Sample Date	Groundwater Elevation (feet, MSL)	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-16 (31.39)	07/03/91	18.47	2,700	31	6.9	4.6	3.1
	09/24/91	17.29	430	1.8	1.3	1.9	1.5
	10/04/91	17.19	NS	NS	NS	NS	NS
	12/19/91	17.25	75	<0.30	<0.30	<0.30	<0.30
MW-17 (32.43)	07/03/91	18.68	1,200	12	1.9	28	40
	09/24/91	17.45	150	2.7	0.50	3.9	0.59
	10/04/91	17.23	NS	NS	NS	NS	NS
	12/19/91	17.41	370	2.6	<0.30	7.2	6.5
MW-18 (29.70)	10/04/91	16.70	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	16.79	<30	<0.30	<0.30	<0.30	<0.30
MW-19 (29.02)	10/04/91	16.59	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	16.71	<30	<0.30	<0.30	<0.30	<0.30
MW-20 (29.54)	10/04/91	16.98	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	17.06	<30	<0.30	<0.30	<0.30	<0.30
MW-21 (28.72)	10/04/91	15.84	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	16.04	<30	<0.30	<0.30	<0.30	<0.30
MW-22 (29.29)	10/04/91	15.92	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	16.10	<30	<0.30	<0.30	<0.30	<0.30
MW-23 (30.99)	10/04/91	16.49	<30	<0.30	<0.30	<0.30	<0.30
	12/19/91	16.61	<30	<0.30	<0.30	<0.30	<0.30

NA = Not available

ppb = Parts per billion

NS = Not sampled

< = Denotes laboratory detection limits. See attached analytical reports.

* = Ethylbenzene and xylenes given as a combined value.

** = Well contained slight product sheen.

MW-1 and MW-2 destroyed prior to March 7, 1989 sampling event.

MW-3, MW-4, and MW-6 (E-1) destroyed June 18, 1990.

**Table 2
Treatment System Metered Volume**

ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

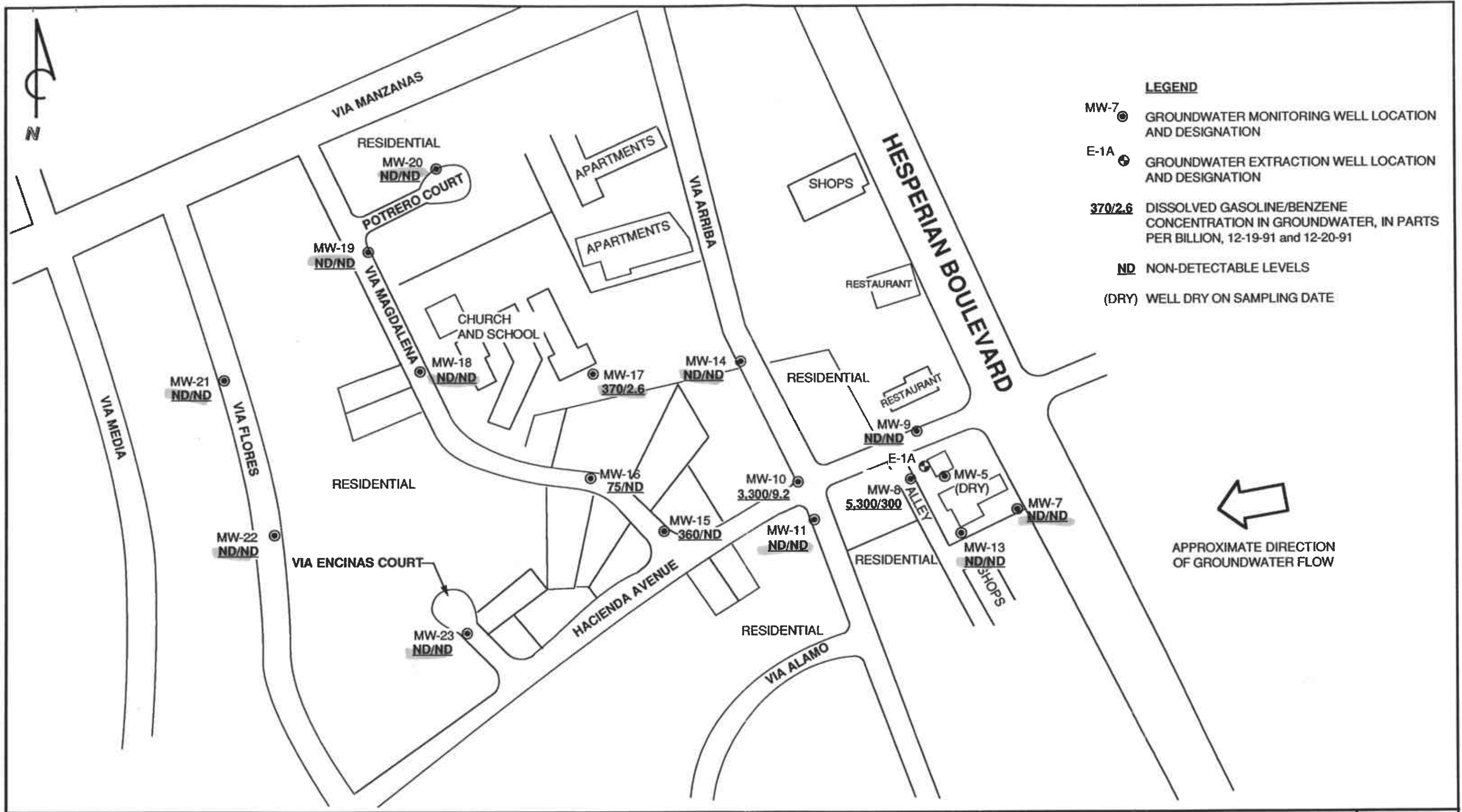
Meter Reading Date	Meter Reading (gallons)	Volume Since Previous Reading (gallons)	Volume Since Start-up (gallons)	Approximate Flow Rate (gpm)
09/25/91	0	0	0	NA*
09/26/91	1,144	1,144	1,144	0.8
10/15/91	5,146	4,002	5,146	0.1
10/22/91	12,844	7,698	12,844	0.9
11/22/91	52,532	39,688	52,532	0.6
12/11/91	78,842	26,310	78,842	1.0
12/19/91	122,540	43,698	122,540	3.8

gpm = Gallons per minute
* = Start-up

**Table 3
Treatment System Analytical Results**

ARCO Service Station 0608
17601 Hesperian Boulevard
San Lorenzo, California

Sample Date	Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
INFL (influent to primary carbon)					
09/26/91	38	4.8	0.60	1.6	1.1
10/22/91	<30	<0.30	<0.30	<0.30	<0.30
11/22/91	<30	0.52	<0.30	<0.30	<0.30
12/19/91	<30	<0.30	<0.30	<0.30	<0.30
MID-1 (between carbons)					
09/26/91	<30	<0.30	<0.30	<0.30	<0.30
10/22/91	<30	<0.30	<0.30	<0.30	<0.30
12/19/91	<30	<0.30	<0.30	<0.30	<0.30
EFFL (effluent to sewer)					
09/26/91	<30	<0.30	<0.30	<0.30	<0.30
10/22/91	<30	<0.30	<0.30	<0.30	<0.30
11/22/91	<30	<0.30	<0.30	<0.30	<0.30
12/19/91	<30	<0.30	<0.30	<0.30	<0.30
ppb = Parts per billion "<" = Analyte was not present above the stated detection limit.					



PACIFIC ENVIRONMENTAL GROUP, INC.

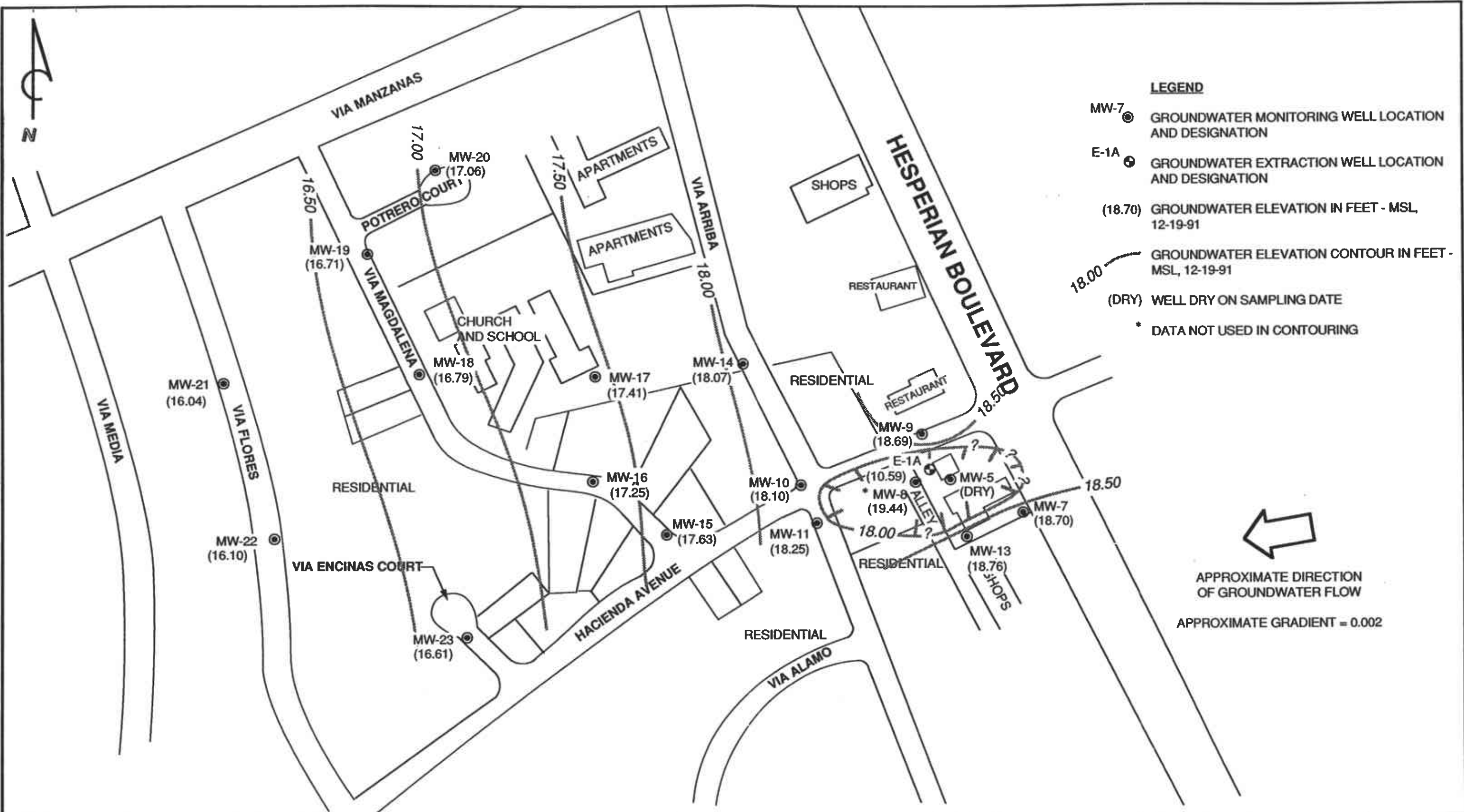
APPROXIMATE SCALE



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

DISSOLVED GASOLINE AND BENZENE CONCENTRATION MAP

FIGURE: 1
PROJECT: 330-06.05



PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE



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

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE: 2
PROJECT: 330-06.05

ATTACHMENT A
GROUNDWATER SAMPLING AND ANALYTICAL PROCEDURES

ATTACHMENT A

GROUNDWATER SAMPLING AND ANALYTICAL 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 using either an electronic indicator and a clear Teflon bailer or an oil-water interface probe. Wells not containing separate-phase hydrocarbons are then purged of approximately four casing volumes (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.

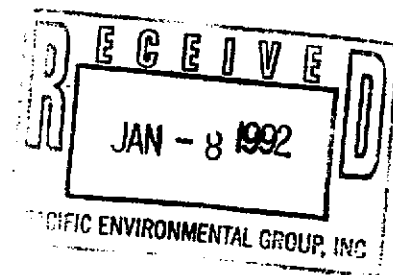
Laboratory Analysis

The groundwater samples were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g) and benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). The analyses were performed according to modified EPA Methods 8015, 8020, and 5030 utilizing a purge-and-trap extraction technique. Final detection was by gas chromatography using a flame-ionization detector and photo-ionization detector. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical report, chain-of-custody document, and field data sheets are attached to this report.



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233



Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Kelly Brown

Project: 330-06.05, Arco 608, San Lorenzo

Enclosed are the results from 17 water samples received at Sequoia Analytical on December 20, 1991. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1123852	Water, MW-7	Dec 19-20, 1991	EPA 5030/8015/8020
1123853	Water, MW-8	Dec 19-20, 1991	EPA 5030/8015/8020
1123854	Water, MW-9	Dec 19-20, 1991	EPA 5030/8015/8020
1123855	Water, MW-10	Dec 19-20, 1991	EPA 5030/8015/8020
1123856	Water, MW-11	Dec 19-20, 1991	EPA 5030/8015/8020
1123857	Water, MW-13	Dec 19-20, 1991	EPA 5030/8015/8020
1123858	Water, MW-14	Dec 19-20, 1991	EPA 5030/8015/8020
1123859	Water, MW-15	Dec 19-20, 1991	EPA 5030/8015/8020
1123860	Water, MW-16	Dec 19-20, 1991	EPA 5030/8015/8020
1123861	Water, MW-17	Dec 19-20, 1991	EPA 5030/8015/8020
1123862	Water, MW-18	Dec 19-20, 1991	EPA 5030/8015/8020
1123863	Water, MW-19	Dec 19-20, 1991	EPA 5030/8015/8020
1123864	Water, MW-20	Dec 19-20, 1991	EPA 5030/8015/8020
1123865	Water, MW-21	Dec 19-20, 1991	EPA 5030/8015/8020
1123866	Water, MW-22	Dec 19-20, 1991	EPA 5030/8015/8020
1123867	Water, MW-23	Dec 19-20, 1991	EPA 5030/8015/8020
1123868	Water, TB-1	Dec 19-20, 1991	EPA 5030/8015/8020

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


Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.05, Arco 608, San Lorenzo	Sampled: Dec 19-20, 1991
1601 Civic Center Drive, Suite 202	Matrix Descript: Water	Received: Dec 20, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/8015/8020	Analyzed: 2/26/91-1/2/92
Attention: Kelly Brown	First Sample #: 112-3852	Reported: Jan 7, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene		Ethyl Benzene	Xylenes
		Hydrocarbons	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)	µg/L (ppb)
112-3852	MW-7	N.D.	N.D.	N.D.	N.D.	N.D.
112-3854	MW-9	N.D.	N.D.	N.D.	N.D.	N.D.
112-3855	MW-10	3,300	9.2	8.4	11	17
112-3856	MW-11	N.D.	N.D.	N.D.	N.D.	N.D.
112-3857	MW-13	N.D.	N.D.	N.D.	N.D.	N.D.
112-3858	MW-14	N.D.	N.D.	N.D.	N.D.	N.D.
112-3860	MW-16	75	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.05, Arco 608, San Lorenzo	Sampled: Dec 19-20, 1991
1601 Civic Center Drive, Suite 202	Sample Descript.: Water, MW-8	Received: Dec 20, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/ 8015/8020	Analyzed: Jan 2, 1992
Attention: Kelly Brown	Lab Number: 112-3853	Reported: Jan 7, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Low to Medium Boiling Point Hydrocarbons.....	300	5,300
Benzene.....	3.0	300
Toluene.....	3.0	N.D.
Ethyl Benzene.....	3.0	21
Xylenes.....	3.0	4.8

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.05, Arco 608, San Lorenzo	Sampled: Dec 19-20, 1991
1601 Civic Center Drive, Suite 202	Sample Descript.: Water, MW-15	Received: Dec 20, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/ 8015/8020	Analyzed: Dec 27, 1991
Attention: Kelly Brown	Lab Number: 112-3859	Reported: Jan 7, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit $\mu\text{g/L}$ (ppb)	Sample Results $\mu\text{g/L}$ (ppb)
Low to Medium Boiling Point Hydrocarbons	60	360
Benzene	0.60	N.D.
Toluene	0.60	N.D.
Ethyl Benzene	0.60	0.64
Xylenes	0.60	N.D.

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.05, Arco 608, San Lorenzo	Sampled: Dec 19-20, 1991
1601 Civic Center Drive, Suite 202	Matrix Descript: Water	Received: Dec 20, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/8015/8020	Analyzed: Dec 26-27, 1991
Attention: Kelly Brown	First Sample #: 112-3861	Reported: Jan 7, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl	Xylenes
		Hydrocarbons			Benzene	
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
112-3861	MW-17	370	2.6	N.D.	7.2	6.5
112-3862	MW-18	N.D.	N.D.	N.D.	N.D.	N.D.
112-3863	MW-19	N.D.	N.D.	N.D.	N.D.	N.D.
112-3864	MW-20	N.D.	N.D.	N.D.	N.D.	N.D.
112-3865	MW-21	N.D.	N.D.	N.D.	N.D.	N.D.
112-3866	MW-22	N.D.	N.D.	N.D.	N.D.	N.D.
112-3867	MW-23	N.D.	N.D.	N.D.	N.D.	N.D.
112-3868	TB-1	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Vickie Tague
Project Manager

1123852.PPP <4>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Kelly Brown

Client Project ID: 330-06.05, Arco 608, San Lorenzo

QC Sample Group: 1123852, 54-57, 61, 63-68

Reported: Jan 7, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	L. Laikhtman	L. Laikhtman	L. Laikhtman	L. Laikhtman
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Dec 26, 1992	Dec 26, 1992	Dec 26, 1992	Dec 26, 1992
QC Sample #:	GBLK122691	GBLK122691	GBLK122691	GBLK122691

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	11	9.8	30
Matrix Spike % Recovery:	100	110	98	100
Conc. Matrix Spike Dup.:	10	10	10	30
Matrix Spike Duplicate % Recovery:	100	100	100	100
Relative % Difference:	0.0	9.5	2.0	0.0

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

SEQUOIA ANALYTICAL

Vm Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Kelly Brown

Client Project ID: 330-06.05, Arco 608, San Lorenzo

QC Sample Group: 112-3853

Reported: Jan 7, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	L. Laikhtman	L. Laikhtman	L. Laikhtman	L. Laikhtman
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Jan 2, 1992	Jan 2, 1992	Jan 2, 1992	Jan 2, 1992
QC Sample #:	GBLK010292	GBLK010292	GBLK010292	GBLK010292
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.4	10	9.2	29
Matrix Spike % Recovery:	94	100	92	97
Conc. Matrix Spike Dup.:	9.9	10	10	30
Matrix Spike Duplicate % Recovery:	99	100	100	100
Relative % Difference:	5.2	0.0	8.3	3.4

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

SEQUOIA ANALYTICAL

Vickie Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Kelly Brown

Client Project ID: 330-06.05, Arco 608, San Lorenzo

QC Sample Group: 1123858-60, 62

Reported: Jan 7, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
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Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Villar	J. Villar	J. Villar	J. Villar
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Dec 27, 1991	Dec 27, 1991	Dec 27, 1991	Dec 27, 1991
QC Sample #:	GBLK122791-C	GBLK122791-C	BLK122791-C	BLK122791-C

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	10	10	30
Matrix Spike % Recovery:	100	100	100	100
Conc. Matrix Spike Dup.:	11	11	11	32
Matrix Spike Duplicate % Recovery:	110	110	110	107
Relative % Difference:	9.5	9.5	9.5	6.5

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

1123852.PPP <7>

ARCO Facility no: *0608* City (Facility) *San Lorenzo* Project manager (Consultant) *Kelly Brown* Laboratory name *Sequoia*
 ARCO engineer *Chuck Carmel* Telephone no. (ARCO) _____ Telephone no. (Consultant) *408-984-6536* Fax no. (Consultant) *408-243-3911* Contract number *07-073*
 Consultant name *Pacific Env. Group.* Address (Consultant) *1601 Civic Center Dr. #202 Santa Clara 95050*

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA 1602/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCUP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	SEM Metals EPA 601/7000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS Lead EPA 7420/7421	
			Soil	Water	Other	Ice	Acid														
TB-1		<i>2</i>		<i>X</i>		<i>X</i>	<i>HCl</i>	<i>12-19-91</i>		<i>X</i>											
MW-7		<i>3</i>						<i>12-20-91</i>													
MW-8																					
MW-9																					
MW-10																					
MW-11																					
MW-13																					
MW-14																					
MW-15																					
MW-16																					
MW-17								<i>12-19-91</i>	<i>13:35</i>												
MW-18								<i>12-19-91</i>	<i>13:10</i>												
MW-19								<i>12-20-91</i>	<i>08:35</i>												
MW-20								<i>12-19-91</i>	<i>12:45</i>												
MW-21								<i>12-19-91</i>	<i>11:15</i>												
MW-22								<i>12-19-91</i>	<i>11:50</i>												

Method of shipment
Sequoia Courier

Special detection Limit/reporting

Special QA/QC
Trip Blank from Sequoia, Dated, 12-13-91 10 am.

Remarks

Lab number
1123868

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

Standard 10 Business Days *7*

Condition of sample: *good* Temperature received: *cool*

Relinquished by sample *[Signature]* Date *12-20-91* Time *2:40* Received by *[Signature]*

Relinquished by *[Signature]* Date *12-20-91* Time *1:45* Received by *[Signature]*

Relinquished by _____ Date _____ Time _____ Received by laboratory _____ Date *12-20* Time *1548*

ARCO Products Company
Division of AtlanticRichfield Company

330-06.05 Task Order No. **601-91-5A**

Chain of Custody

ARCO Facility no. 0608	City (Facility) San Lorenzo	Project manager (Consultant) Kelly Brown
ARCO engineer Chuck Carmel	Telephone no. (ARCO)	Telephone no. (Consultant) 408-984-6536
Consultant name Pacific Env. Group	Address (Consultant) 1601 Civic Center Dr. #202 Santa Clara 95050	
		Fax no. (Consultant) 408-243-3911

Laboratory name **Sequoia**
Contract number **071-073**

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802	BTEX/TPH EPA 802/803/8015	TPH Modified 8015 Gas L Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM608E	EPA 801/8010	EPA 824/8240	EPA 825/8270	TCLP Metals VOA VOA	Semi Metals EPA 810/8100	TTLCL STLCL	Lead Org./DHS Lead EPA 7420/7421
			Soil	Water	Other	Ice	Acid														
MW-23	3		X			X	HCl	12-19-91	10:10		X			112	48	67					

Method of shipment **Sequoia courier**

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number **MW-23-108**

Turnaround time

Condition of sample: good	Temperature received: cool
Relinquished by sampler Max Pizle Date 12-20-91 Time 2:40	Received by Kelly Brown
Relinquished by Ken Foltz Date 12-20-91 Time 1548	Received by
Relinquished by	Received by laboratory Date 12-20 Time 1248

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

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

ARCO Facility no. 0608 City (Facility) San Lorenzo Project manager (Consultant) Kelly Brown
 ARCO engineer Chuck Carmel Telephone no. (ARCO) _____ Telephone no. (Consultant) 408-984-6536 Fax no. (Consultant) 408-243-3911
 Consultant name Pacific Env. Group. Address (Consultant) 1601 Civic Center Dr. #202 Santa Clara 95050

Laboratory name
Sequoia

Contract number
07-073

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA M602/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCMP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CMA Metals EPA 601/07000 TTL <input type="checkbox"/> STL <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	
			Soil	Water	Other	Ice	Acid															
TB-1		2	X			X	HCl	12-17-91		X					11-2-8	75						
MW-7		3						12-20-91														
MW-8																						
MW-9																						
MW-10																						
MW-11																						
MW-13																						
MW-14																						
MW-15																						
MW-16																						
MW-17								12-14-91	13:35													
MW-18								12-14-91	13:10													
MW-19								12-20-91	08:35													
MW-20								12-14-91	12:45													
MW-21								12-14-91	11:15													
MW-22								12-14-91	11:50													

Method of shipment
Sequoia Courier

Special detection
Limit/reporting

Special QA/QC
trip blank from Sequoia, dated 12-13-91 10 am.

Remarks

Lab number
1123868

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

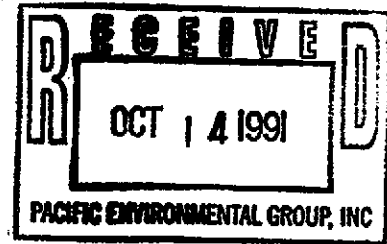
Condition of sample: good Temperature received: cool

Relinquished by sampler <u>[Signature]</u>	Date <u>12-20-91</u>	Time <u>2:40</u>	Received by <u>[Signature]</u>
Relinquished by <u>[Signature]</u>	Date <u>12-20-91</u>	Time <u>15:15</u>	Received by <u>[Signature]</u>
Relinquished by	Date	Time	Received by laboratory <u>[Signature]</u>
			Date <u>12-20</u>
			Time <u>15:18</u>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233



Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Project: #330-06.12, Arco 0608, San Lorenzo

Enclosed are the results from 4 water samples received at Sequoia Analytical on September 26, 1991. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1094396	Water, Influent	9/29/91	Miscellaneous Metals Cyanide EPA 5030/8015/8020 pH Phenols
1094397	Water, Effluent	9/29/91	Miscellaneous Metals Cyanide EPA 5030/8015/8020 pH Phenols
1094398	Water, Tank	9/29/91	Miscellaneous Metals Cyanide EPA 5030/8015/8020 pH Phenols
1094399	Water, Mid 1	9/26/91	EPA 5030/8015/8020

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

Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water	Received: Sep 26, 1991
Santa Clara, CA 95050	Analysis for: pH	Analyzed: Sep 27, 1991
Attention: Dan Landry	First Sample #: 109-4396	Reported: Sep 30, 1991

LABORATORY ANALYSIS FOR: pH

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
109-4396	Influent	N.A.	7.0
109-4397	Effluent	N.A.	8.8
109-4398	Tank	N.A.	8.9

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

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water	Received: Sep 26, 1991
Santa Clara, CA 95050	Analysis for: Phenols	Extracted: Sep 27, 1991
Attention: Dan Landry	First Sample #: 109-4396	Analyzed: Sep 27, 1991
		Reported: Sep 30, 1991

LABORATORY ANALYSIS FOR: Phenols

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
109-4396	Influent	0.050	N.D.
109-4397	Effluent	0.050	N.D.
109-4398	Tank	0.050	N.D.

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

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water	Received: Sep 26, 1991
Santa Clara, CA 95050	Analysis for: Cyanide	Extracted: Sep 27, 1991
Attention: Dan Landry	First Sample #: 109-4396	Analyzed: Sep 27, 1991
		Reported: Sep 30, 1991

LABORATORY ANALYSIS FOR: Cyanide

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
109-4396	Influent	0.020	N.D.
109-4397	Effluent	0.020	N.D.
109-4398	Tank	0.020	N.D.

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Matrix Descript: Water	Received: Sep 26, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/8015/8020	Analyzed: Sep 27, 1991
Attention: Dan Landry	First Sample #: 109-4396	Reported: Sep 30, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene	Toluene	Ethyl Benzene	Xylenes
		Hydrocarbons $\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
109-4396	Influent	38	4.8	0.60	1.6	1.1
109-4397	Effluent	N.D.	N.D.	N.D.	N.D.	N.D.
109-4398	Tank	63	N.D.	0.89	N.D.	2.3
109-4399	Mid 1	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager

1094396.PPP <4>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water, Influent	Received: Sep 26, 1991
Santa Clara, CA 95050		Analyzed: Sep 27-30, 1991
Attention: Dan Landry	Lab Number: 109-4396	Reported: Sep 30, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Arsenic.....	0.050	N.D.
Cadmium.....	0.010	N.D.
Chromium.....	0.010	N.D.
Copper.....	0.010	N.D.
Lead.....	0.0050	N.D.
Mercury.....	0.00020	N.D.
Nickel.....	0.050	N.D.
Silver.....	0.010	N.D.
Zinc.....	0.010	0.033

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager

Please Note:
Amended report dated: 9/30/91



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water, Effluent	Received: Sep 26, 1991
Santa Clara, CA 95050		Analyzed: Sep 27-30, 1991
Attention: Dan Landry	Lab Number: 109-4397	Reported: Sep 30, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Arsenic.....	0.050	0.29
Cadmium.....	0.010	N.D.
Chromium.....	0.010	N.D.
Copper.....	0.010	N.D.
Lead.....	0.0050	N.D.
Mercury.....	0.00020	N.D.
Nickel.....	0.050	N.D.
Silver.....	0.010	N.D.
Zinc.....	0.010	0.022

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager

Please Note:
Amended report dated: 9/30/91



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: #330-06.12, Arco 0608, San Lorenzo	Sampled: Sep 26, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water, Tank	Received: Sep 26, 1991
Santa Clara, CA 95050		Analyzed: Sep 27-30, 1991
Attention: Dan Landry	Lab Number: 109-4398	Reported: Sep 30, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Arsenic.....	0.050	N.D.
Cadmium.....	0.010	N.D.
Chromium.....	0.010	N.D.
Copper.....	0.010	N.D.
Lead.....	0.0050	0.0067
Mercury.....	0.00020	N.D.
Nickel.....	0.050	N.D.
Silver.....	0.010	N.D.
Zinc.....	0.010	0.047

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

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager

1094396.PPP <7>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: #330-06.12, Arco 0608, San Lorenzo

QC Sample Group: 1094396-98

Reported: Sep 30, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	pH
---------	--------	----

Method:	EPA 420.1	EPA 9040
Analyst:	P. Penner	J. Martinez
Reporting Units:	mg/L	N.A.
Date Analyzed:	Sep 27, 1991	Sep 27, 1991
QC Sample #:	109-4398	109-4398

Sample Conc.:	N.D.	8.9
Spike Conc. Added:	0.50	N.A.
Conc. Matrix Spike:	0.49	N.A.
Matrix Spike % Recovery:	98	N.A.
Conc. Matrix Spike Dup.:	0.47	8.9
Matrix Spike Duplicate % Recovery:	94	N.A.
Relative % Difference:	4.2	0.0

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: #330-06.12, Arco 0608, San Lorenzo

QC Sample Group: 1094396-99

Reported: Sep 30, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	L. Laikhtman	L. Laikhtman	L. Laikhtman	L. Laikhtman
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Sep 27, 1991	Sep 27, 1991	Sep 27, 1991	Sep 27, 1991
QC Sample #:	GBLK092791	GBLK092791	GBLK092791	GBLK092791

Sample Conc.: N.D. N.D. N.D. N.D.

Spike Conc. Added: 10 10 10 30

Conc. Matrix Spike: 8.9 9.0 9.2 27

Matrix Spike % Recovery: 89 90 92 89

Conc. Matrix Spike Dup.: 9.6 9.7 9.7 29

Matrix Spike Duplicate % Recovery: 96 97 97 95

Relative % Difference: 7.6 7.5 5.3 6.9

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

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME:
REC. BY (PRINT):

Pacific Environ
KC

MASTER LOG NO. / PAGE:
DATE OF LOG-IN:

X
9/26/91

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC)
1. Custody Seal(s):	Present / <u>Absent</u> Intact / Broken*	1094396	A-C	Influent	UGES	W	9/26	
2. Custody Seal Nos.:	X		D		Cyanide			
3. Chain-of-Custody Records:	<u>Present</u> / Absent*		E		metals			
			F		liter pl.			
			G		phcol			
4. Traffic Reports or Packing List:	Present / <u>Absent</u>	1094399	A-C	mid-1	UGES			
5. Airbill:	Airbill / Sticker Present / <u>Absent</u>	1094397	A-G	Effluent	same as			
					influent			
6. Airbill No.:	X	1094398	A-G	Tank	same as			
					influent			
7. Sample Tags:	<u>Present</u> / Absent*							
Sample Tag Nos.:	<u>Listed</u> / Not Listed on Chain-of-Custody							
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<u>Yes</u> / No*							
10. Proper Preservatives Used:	<u>Yes</u> / No*							
11. Date Rec. at Lab:	<u>9/26/91</u>							
12. Time Rec. at Lab:	<u>1330</u>							

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

ARCO Facility no. **0608** City **17601 HESPERIAN Blvd SAN LORENZO** Project manager (Consultant) **Dan Landrey** Laboratory name **Sequoia**
 ARCO engineer **Ryle Christie** Telephone no. (ARCO) _____ Telephone no. (Consultant) **408 984 6536** Fax no. (Consultant) **243-3911** Contract number **07-013**
 Consultant name **Pacific Environmental Group, Inc** Address (Consultant) **1601 Civic Center Dr. Santa Clara 95051** Method of shipment _____

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 801/802/806	BTEX/TPH EPA 801/802/806/815	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM502	EPA 824/8240	EPA 823/8270 PH	TCMP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAN Metals EPA 601/7000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org. DHS Lead EPA 7420/7421 <input type="checkbox"/>	Pheno	Cyanide	
			Soil	Water	Other	Ice	Acid															
INFL		7		X		X		9.26.91	1140	✓						✓					✓	✓
Mid 1		3		X		X		9.26.91	1145	✓											✓	✓
EFFL		7		X		X		9.26.91	1150	✓											✓	✓
TANK		7		X		X		9.26.91	1155	✓											✓	✓

Special detection Limit/reporting
 1094396
 4399
 4397
 4398
 Special (ARCO)

Remarks
 * As, Cd, Cu, Pb, Hg, Ni, Ag, Cr, Zn

Lab number
 1094396

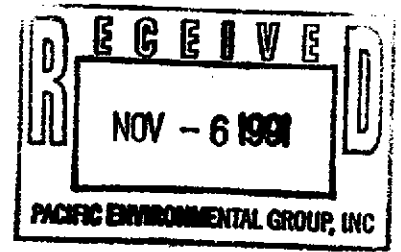
Turnaround time
 Priority Rush 1 Business Day if possible
 Rush 2 Business Days
 Expedited 5 Business Days
 Standard 10 Business Days

Condition of sample: **good** Temperature received: **cool**
 Relinquished by sampler _____ Date _____ Time _____ Received by _____
 Relinquished by _____ Date _____ Time _____ Received by _____
 Relinquished by **T. Walden 1133** Date **9.26.91** Time **1330** Received by laboratory **K. Landrey** Date **9/26** Time **1330**



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233



Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Project: 330-06.12, Arco 0608, San Lorenzo

Enclosed are the results from 3 water samples received at Sequoia Analytical on October 22, 1991. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1104074	Water, Influent	10/22/91	EPA 5030/8015/8020
1104075	Water, Mid - 1	10/22/91	EPA 5030/8015/8020
1104076	Water, Effluent	10/22/91	EPA 5030/8015/8020

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


Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.12, Arco 0608, San Lorenzo	Sampled: Oct 22, 1991
1601 Civic Center Drive, Suite 202	Matrix Descript: Water	Received: Oct 22, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/8015/8020	Analyzed: Oct 24, 1991
Attention: Dan Landry	First Sample #: 110-4074	Reported: Nov 5, 1991


TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.			Ethyl	
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
110-4074	Influent	N.D.	N.D.	N.D.	N.D.	N.D.
110-4075	Mid - 1	N.D.	N.D.	N.D.	N.D.	N.D.
110-4076	Effluent	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
-------------------	----	------	------	------	------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager

1104074.PPP <1>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: 330-06.12, Arco 0608, San Lorenzo

QC Sample Group: 1104074-76

Reported: Nov 5, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Jencks	J. Jencks	J. Jencks	J. Jencks
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Oct 24, 1991	Oct 24, 1991	Oct 24, 1991	Oct 24, 1991
QC Sample #:	BLK102491	BLK102491	BLK102491	BLK102491

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.6	9.7	9.7	29
Matrix Spike % Recovery:	96	97	97	97
Conc. Matrix Spike Dup.:	10	10	10	31
Matrix Spike Duplicate % Recovery:	100	100	100	103
Relative % Difference:	4.1	3.1	3.1	6.7

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

SEQUOIA ANALYTICAL

Vickie Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

CLIENT NAME:
REC. BY (PRINT):

REG
KD

MASTER LOG NO. / PAGE:
DATE OF LOG-IN:

X
10/23/91

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC)
1. Custody Seal(s):	Present / <u>Absent</u> Intact / Broken*	1104074	A-E	INFLUENT	WPS	W	10/23	
2. Custody Seal Nos.:	X	↓ 405	↓	MID-1	↓	↓	↓	
3. Chain-of-Custody Records:	<u>Present</u> / Absent*	↓ 406	↓	EAT	↓	↓	↓	
4. Traffic Reports or Packing List:	Present / <u>Absent</u>							
5. Airbill:	Airbill / Sticker Present / <u>Absent</u>							
6. Airbill No.:	X							
7. Sample Tags:	<u>Present</u> / Absent*							
Sample Tag Nos.:	<u>Listed</u> / Not Listed on Chain-of-Custody							
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<u>Yes</u> / No*							
10. Proper Preservatives Used:	<u>Yes</u> / No*							
11. Date Rec. at Lab:	<u>10/23/91</u>							
12. Time Rec. at Lab:	<u>5:30pm</u>							

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

ARCO Products Company

Division of AtlanticRichfieldCompany

330-0612 Task Order No. 608-91-2B

Chain of Custody

ARCO Facility no. 0608	City (Facility) San Lorenzo	Project manager (Consultant) Dan Hendry
ARCO engineer Chuck Carmel	Telephone no. (ARCO)	Telephone no. (Consultant) 984-6536
Consultant name Pacific Environmental		Fax no. (Consultant) 243-3911
Address (Consultant) 1601 Civic Center SE 95051		

Laboratory name
Squidria

Contract number
07-07B

Method of shipment
Squidria Courier

Special detection Limit/reporting

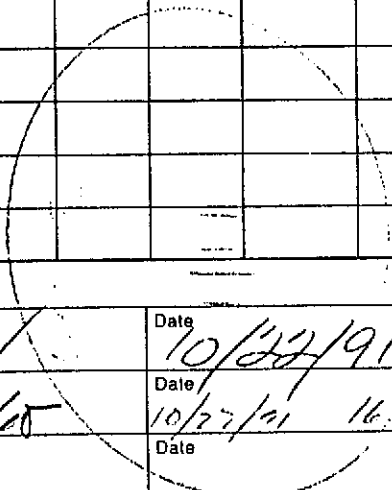
Special QA/QC

Remarks

Lab number
1104074

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

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 9020	BTX/TPH EPA 1602/8020/9015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 824/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 8010/7000	TTL <input type="checkbox"/> STL <input type="checkbox"/>	Lead/Di/DHS Lead EPA 7420/7421 <input type="checkbox"/>		
			Soil	Water	Other	Ice	Acid																	
TRFL		3	X			X	HCL	10:27-91		X														
INTD-1		3	X			X		↓		↓														
FFFL		3	X			X		↓		↓														

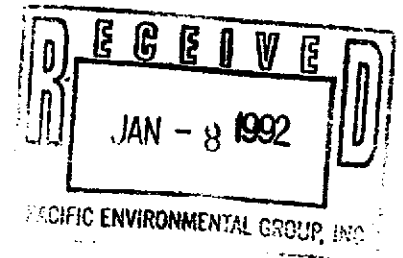


Condition of sample: good	temperature received COOL		
Relinquished by sampler <i>Ben Feller</i>	Date 10/22/91	Time 15:52	Received by <i>Ben Feller</i>
Relinquished by <i>Ben Feller</i>	Date 10/27/91	Time 16:45	Received by
Relinquished by	Date 10/27	Time 330	Received by laboratory <i>L. Walters</i>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233



Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Project: 330-06.12, Arco 0608, San Lorenzo

Enclosed are the results from 4 water samples received at Sequoia Analytical on December 20, 1991.
The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1123578	Water, Influent	12/19/91	EPA 5030/8015/8020
1123579	Water, Mid-1	12/19/91	EPA 5030/8015/8020
1123580	Water, Effluent	12/19/91	Suspended Solids EPA 5030/8015/8020 Chemical Oxygen Demand
1123581	Water, TB-1	12/19/91	EPA 5030/8015/8020

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

Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.12, Arco 0608, San Lorenzo	Sampled: Dec 19, 1991
1601 Civic Center Drive, Suite 202	Matrix Descript: Water	Received: Dec 20, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/8015/8020	Analyzed: Dec 27, 1991
Attention: Dan Landry	First Sample #: 112-3578	Reported: Jan 7, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons		Toluene $\mu\text{g/L}$ (ppb)	Ethyl Benzene $\mu\text{g/L}$ (ppb)	Xylenes $\mu\text{g/L}$ (ppb)
		$\mu\text{g/L}$ (ppb)	Benzene $\mu\text{g/L}$ (ppb)			
112-3578	Influent	N.D.	N.D.	N.D.	N.D.	N.D.
112-3579	Mid-1	N.D.	N.D.	N.D.	N.D.	N.D.
112-3580	Effluent	N.D.	N.D.	N.D.	N.D.	N.D.
112-3581	TB-1	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
-------------------	----	------	------	------	------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

CLIENT NAME: PEG
 REC. BY (PRINT): AN

MASTER LOG NO. / PAGE:
 DATE OF LOG-IN:

12/20

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC)
1. Custody Seal(s):	Present <input checked="" type="checkbox"/> Absent	123578	A-C	INFL	VOA	W	12/19	
	Intact / Broken*	79	A-C	MID-1				
2. Custody Seal Nos.:	<input checked="" type="checkbox"/>	80	A-C	EFF				
			R-F		VOACGD			
3. Chain-of-Custody Records:	<input checked="" type="checkbox"/> Present / Absent*		GH		Amber			
		81	AB	TBI	VCA			
4. Traffic Reports or Packing List:	Present / <input checked="" type="checkbox"/> Absent							
5. Airbill:	Airbill / Sticker							
	Present / <input checked="" type="checkbox"/> Absent							
6. Airbill No.:								
7. Sample Tags:	<input checked="" type="checkbox"/> Present / Absent*							
Sample Tag Nos.:	<input checked="" type="checkbox"/> Listed / Not Listed							
	on Chain-of-Custody							
8. Sample Condition:	<input checked="" type="checkbox"/> Intact/Broken*/Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<input checked="" type="checkbox"/> Yes / No*							
10. Proper Preservatives Used:	<input checked="" type="checkbox"/> Yes / No*							
11. Date Rec. at Lab:	<u>12/20</u>							
12. Time Rec. at Lab:	<u>1545</u>							

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

ARCO Facility no. 608	City (Facility) San Lorenzo	Project manager (Consultant) Dan Landry	Laboratory name Sequoia
ARCO engineer Kyle Christu	Telephone no. (ARCO)	Telephone no. (Consultant) 984-6536	Contract number 07-073
Consultant name Pacific Env. Group		Fax no. (Consultant) 243-9311	
Address (Consultant) 1601 Civic Center Dr. #202 Santa Clara, CA			

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	BTEX/TPH Gas EPA 1632/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SMS93E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals Semi VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 601/6700 TTLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS Lead EPA 7420/7421 <input type="checkbox"/>	COD	TSS		
			Soil	Water	Other	Ice	Acid																	
INFL		3		X		X	HCl	12/19/01	11:40		X													
M.d-1		3							11:44															
E1FL		3							11:49															
E1FL		3					H ₂ SO ₄															X		
E1FL		2					NP																X	
TB-1		2					HCl				X													

Method of shipment
Sequoia courier

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number **1123578**

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

Condition of sample: (MP) good			Temperature received: cool		
Relinquished by sampler Mark A. Aslett	Date 12/22/01	Time 2:35	Received by Ken Folt	Date	Time
Relinquished by Ken Folt	Date 12/19/01	Time 15:15	Received by L. N. ...	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

E C E I
JAN 15 1992
PACIFIC ENVIRONMENTAL

Pacific Environmental Group	Client Project ID: 330-06.12, Arco 0608, San Lorenzo	Sampled: Dec 19, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Effluent	Received: Dec 20, 1991
Santa Clara, CA 95050		Analyzed: Dec 30-31, 1991
Attention: Dan Landry	Lab Number: 112-3580	Reported: Jan 7, 1992

LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Suspended Solids.....	1.0	N.D.
Chemical Oxygen Demand.....	20	N.D.

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager

Please Note:
Amended report dated: 1/14/92



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: 330-06.12, Arco 0608, San Lorenzo

QC Sample Group: 1123578-81

Reported: Jan 7, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
---------	---------	---------	---------------	---------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Villar	J. Villar	J. Villar	J. Villar
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Dec 27, 1991	Dec 27, 1991	Dec 27, 1991	Dec 27, 1991
QC Sample #:	GBLK122791-C	GBLK122791-C	BLK122791-C	BLK122791-C

Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	10	10	30
Matrix Spike % Recovery:	100	100	100	100
Conc. Matrix Spike Dup.:	11	11	11	32
Matrix Spike Duplicate % Recovery:	110	110	110	107
Relative % Difference:	9.5	9.5	9.5	6.5

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

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: 330-06.12, Arco 0608, San Lorenzo

QC Sample Group: 112-3580

Reported: Jan 7, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Chemical Oxygen Demand	Suspended Solids
---------	------------------------	------------------

Method:	EPA 411.0	EPA 160.3
Analyst:	Y. Arteaga	Y. Arteaga
Reporting Units:	mg/L	mg/L
Date Analyzed:	Dec 30, 1991	Dec 21, 1991
QC Sample #:	112-3160	112-3561

Sample Conc.: N.D. 110

Spike Conc. Added: 75 N.A.

Conc. Matrix Spike: 82 N.A.

Matrix Spike % Recovery: 109 N.A.

Conc. Matrix Spike Dup.: 82 110

Matrix Spike Duplicate % Recovery: 109 N.A.

Relative % Difference: 0.0 0.0

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

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

ARCO Facility no. 608	City (Facility) San Lorenzo	Project manager (Consultant) Dan Landry	Laboratory name Sequoia
ARCO engineer Kyle & Christine	Telephone no. (ARCO)	Telephone no. (Consultant) 984-6536	Contract number 07-073
Consultant name Pacific Env. Group		Address (Consultant) 1601 Civic Center Dr. #202 Santa Clara, CA	

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 802/EPA 8020	BTEX/TPH Gas EPA 802/8020/8015	TPH Modified 8015 Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SM508E	EPA 601/6010	EPA 624/6240	EPA 625/6270	TCUP Metals	Semi VOA VOC	CAM Metals EPA 801/807000 TTLIC STLC	Lead Org./DHS Lead EPA 7420/7421	COD	TSS	
			Soil	Water	Other	Ice	Acid																	
INFL		3		X		X	HCl	12/19/91	11:40		X													
M.d-1		3		↓		↓			11:44		↓													
EFFL		3		↓		↓			11:49		↓													
EFFL		3		↓		↓	H ₂ SO ₄															X		
EFFL		2		↓		↓	NP																X	
TB-1		2		↓		↓	HCl				X													

Method of shipment
Sequoia Courier

Special detection Limit/reporting

Special QA/QC

Remarks

Lab number
1123578

Turnaround time

Priority Rush 1 Business Day

Rush 2 Business Days

Expedited 5 Business Days

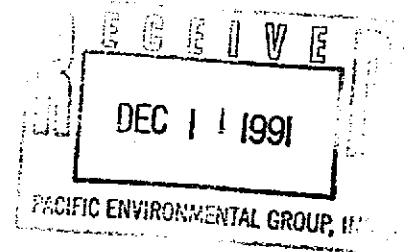
Standard 10 Business Days

Condition of sample: (MP) good		Temperature received: cool	
Relinquished by sampler Mark A. Ashby	Date 12/20/91 Time 2:35	Received by Dan Folt	
Relinquished by Dan Folt	Date 12/20/91 Time 15:45	Received by A. Nease	
Relinquished by	Date	Received by laboratory	Date



SEQUOIA ANALYTICAL

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Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Project: 330-06.12 ARCO 0608

Enclosed are the results from 2 water samples received at Sequoia Analytical on November 25, 1991. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1115122	Water, Influent	11/22/91	EPA 5030/8015/8020
1115123	Water, Effluent	11/22/91	Chemical Oxygen Demand pH Suspended Solids Arsenic EPA 5030/8015/8020

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


Vickie Tague
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.12 ARCO 0608	Sampled: Nov 22, 1991
1601 Civic Center Drive, Suite 202	Sample Descript: Water, Effluent	Received: Nov 25, 1991
Santa Clara, CA 95050		Analyzed: 11/25 - 12/4/91
Attention: Dan Landry	Lab Number: 111-5123	Reported: Dec 10, 1991

LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Chemical Oxygen Demand.....	20	39
pH, units.....	N.A.	7.4
Suspended Solids.....	1.0	2.0
Arsenic.....	0.0050	0.0063

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

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

1115123.PPP <1>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group	Client Project ID: 330-06.12 ARCO 0608	Sampled: Nov 22, 1991
1601 Civic Center Drive, Suite 202	Matrix Descript: Water	Received: Nov 25, 1991
Santa Clara, CA 95050	Analysis Method: EPA 5030/8015/8020	Analyzed: Dec 5, 1991
Attention: Dan Landry	First Sample #: 111-5122	Reported: Dec 10, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Ethyl			
		Hydrocarbons	Benzene	Toluene	Benzene	Xylenes
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
111-5122	Influent	N.D.	0.52	N.D.	N.D.	N.D.
111-5123	Effluent	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:	30	0.30	0.30	0.30	0.30
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Vickie Tague
Project Manager

1115123.PPP <2>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: 330-06.12 ARCO 0608

QC Sample Group: 111-5123

Reported: Dec 10, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Chemical			
	pH	Suspended Solids	Oxygen Demand	Arsenic
Method:	EPA 9040	EPA 160.2	EPA 410.4	EPA 206.2
Analyst:	J. Martinez	J. Martinez	J. Martinez	F. Contreras
Reporting Units:	N.A.	mg/L	mg/L	mg/L
Date Analyzed:	Nov 25, 1991	Dec 2, 1991	Dec 4, 1991	Dec 3, 1991
QC Sample #:	111-5150	111-5760	111-4386	111-4260
Sample Conc.:	8.5	130	N.D.	0.0055
Spike Conc. Added:	N.A.	N.A.	75	0.10
Conc. Matrix Spike:	N.A.	N.A.	79	0.11
Matrix Spike % Recovery:	N.A.	N.A.	105	105
Conc. Matrix Spike Dup.:	8.5	130	79	0.11
Matrix Spike Duplicate % Recovery:	N.A.	N.A.	105	105
Relative % Difference:	0.0	0.0	0.0	0.0

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

SEQUOIA ANALYTICAL

Vickie Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$



SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Pacific Environmental Group
1601 Civic Center Drive, Suite 202
Santa Clara, CA 95050
Attention: Dan Landry

Client Project ID: 330-06.12 ARCO 0608

QC Sample Group: 1115122-23

Reported: Dec 10, 1991

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A. Maralit	A. Maralit	A. Maralit	A. Maralit
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Dec 5, 1991	Dec 5, 1991	Dec 5, 1991	Dec 5, 1991
QC Sample #:	GBLK120591	GBLK120591	GBLK120591	GBLK120591
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	10	10	30
Matrix Spike % Recovery:	100	100	100	100
Conc. Matrix Spike Dup.:	10	10	10	30
Matrix Spike Duplicate % Recovery:	100	100	100	100
Relative % Difference:	0.0	0.0	0.0	0.0

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

SEQUOIA ANALYTICAL

V. Tague
Vickie Tague
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME:
REC. BY (PRINT):

PEG
SP

MASTER LOG NO. / PAGE:

DATE OF LOG-IN:

11-25

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC)
1. Custody Seal(s):	Present / Absent Intact / Broken*	115122	A-C	INFLUENT	3 VOAS	W	11-25	
2. Custody Seal Nos.:		115123	A-F	EFFLUENT	6 VOAS			
3. Chain-of-Custody Records:	Present / Absent*	↓	G	↓	1L. PLASTIC	↓	↓	
4. Traffic Reports or Packing List:	Present / Absent		H		1/2 POLY			
5. Airbill:	Airbill / Sticker Present / Absent		I		1L. PLASTIC			
6. Airbill No.:								
7. Sample Tags:	Present / Absent*							
8. Sample Condition:	Listed / Not Listed on Chain-of-Custody 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:								
12. Time Rec. at Lab:								

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

ARCO Facility no. 0608	City (Facility) San Lorenzo	Project manager (Consultant) Dan Landry	Laboratory name SEQUOIA
ARCO engineer Kyle Christie	Telephone no. (ARCO)	Telephone no. (Consultant) 984-6536	Contract number 07-073
Consultant name Pacific Environmental	Address (Consultant) 1601 Civic Center		

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 8020	BTEX/TPH EPA 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 VOA VOA	Semi Metals VOA VOA	CAM Metals EPA 6010/7000	TLC STLC	Lead Org/DHS	Lead EPA 7420/7421	Remarks	
			Soil	Water	Other	Ice	Acid																		
EFFL	18		X			X	NP ³	11-22-91	11:07															X	ARSENIC
EFFL	1		X			X	NP	11-22-91	11:07															X	5.5

Method of shipment
Sequoia courier

Special detection Limit/reporting

Special QA/QC

Remarks
Attn: Lab Arsenic = Total

Lab number
1115122

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

Condition of sample: GOOD	Temperature received: COOL
Relinquished by/sampler [Signature]	Date 11/25/91 Time 11:30
Received by [Signature]	Date 11/25/91 Time 12:00
Relinquished by [Signature]	Date 11-25 Time 2:00
Received by laboratory [Signature]	Date 11-25 Time 2:00

ARCO Facility no. 0608	City (Facility) San Lorenzo	Project manager (Consultant) Dan Landry	Laboratory name Sequoia
ARCO engineer Kyle Christie	Telephone no. (ARCO)	Telephone no. (Consultant) 984 6536	Contract number 07-073
Consultant name Pacific Environmental	Address (Consultant) 1601 Civic Center Dr. 95051		Method of shipment Sequoia Courier

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH Gas EPA 1602/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals EPA 6010/7000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	C.O.D.	P.H.	
			Soil	Water	Other	Ice	Acid																
JHFL				X		X	HCL	11-22-91	11:03		X												
EFFL				X		X	HCL		11:07	X													
EFFL		3		X		X	H ₂ SO ₄																
EFFL		1		X		X	NP																

Special detection Limit/reporting
Special QA/QC
Remarks
Lab number 1115122
Turnaround time
Priority Rush 1 Business Day <input type="checkbox"/>
Rush 2 Business Days <input type="checkbox"/>
Expedited 5 Business Days <input type="checkbox"/>
Standard 10 Business Days <input checked="" type="checkbox"/>

Condition of sample: GOOD	Temperature received: COOL
Relinquished by sampler [Signature]	Date 11/25/91 Time 11:30
Received by [Signature]	
Relinquished by [Signature]	Date 11/25/91 Time 1200
Received by [Signature]	
Relinquished by [Signature]	Date 11-25 Time 1200
Received by laboratory [Signature]	

Mark Gubwin

Water/Product Depth Field Sheet

Client: Arc O

Field Dates: 12-19-91

Project No.: 330-06.05

Sampler: SP

Location: San LORENZO

- Probe Type:
- Oil/Water Interface
 - Electronic Indicator
 - Bell Sounder
 - Other _____

Well ID	Date	Time	TD	TOB		TOC		SPH/Liquid Removed (gallons)	Comments (I.e. SPH thickness after bailing)
				DTL	DTW	DTL	DTW		
MW-5	12-19	08:30	14.1						Dry
MW-7	↓	08:27	18.9						15.29
MW-8		08:19	21.6						13.35
MW-9		08:30	18.7						13.42
MW-10		08:10	23						13.57
MW-11		08:15	19.2						14.29
MW-13		08:23	23.5						16.66
MW-14		08:27	23						12.39
MW-15		08:03	23.7						13.78
MW-16		08:00	23						14.14
MW-17		07:57	23.6						15.02
MW-18		07:50	21.7						12.91
MW-19		07:52	21.6						12.31

Water/Product Depth Field Sheet

Client: Arco
 Project No.: 330-06.05
 Location: San Lorenzo

Field Dates: 12-19-21
 Sampler: SP

- Probe Type:
 Oil/Water Interface
 Electronic Indicator
 Bell Sounder
 Other _____

Well ID	Date	Time	TD	TOB		TOC		SPH/Liquid Removed (gallons)	Comments (i.e. SPH thickness after bailing)
				DTL	DTW	DTL	DTW		
MW-20	12-19	07:47	21.7		12.48				
MW-21	↓	07:43	22		12.68				
MW-22		07:40	21.75		13.19				
MW-23		07:35	22		14.38				
1A		10:21			22.47				

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenzo Well I.D.: TB-1

Well Information

Total Depth: _____ Diameter: 2" 3" 4" 5" 6" _____
 Depth to Water: _____ TOC _____ TOB _____ Product: Yes No
 Depth to Liquid: _____ TOC _____ TOB _____ Thickness (feet): _____
 Date: _____ Color: _____
 Time: _____ Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: _____ Purge Method: Bailer Positive Displacement
 Calculated Purge: _____ (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: _____ (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor

Comments:

Sample Information

Sampler: SP
 Sample I.D.: TB-1
 Date Sampled: 12-19-91
 Time Sampled: (12-13-91 10 am)

No. Containers	Size/Type	Pres.	Analysis
2	40ml QA	HCl	GAS/BTEX

Sample Method:
 Bailer Positive Displacement
 Dedicated Other _____

Comments: Trip Blank from Sequoia Lab.

Monitoring Well Field Sheet

Client: ARCO Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenz 0 Well I.D.: MW-7

Well Information

Total Depth: 18.9 Diameter: 2" 3" 4" 5" 6" _____
 Depth to Water: - TOC/5.29 TOB Product: Yes No
 Depth to Liquid: - TOC - TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 08:27 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 5.5 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 5.5 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>2</u>	<u>11:35</u>	<u>6.96</u>	<u>1072</u>	<u>62.5</u>	<u>cloudy</u>	<u>NO</u>
<u>4</u>	<u>11:37</u>	<u>6.95</u>	<u>1110</u>	<u>62.9</u>	<u>↓</u>	<u>↓</u>
<u>5.5</u>	<u>11:40</u>	<u>6.96</u>	<u>1121</u>	<u>62.9</u>	<u>↓</u>	<u>↓</u>

Comments: _____

Sample Information

Sampler: SP
 Sample I.D.: MW-7
 Date Sampled: 12-20-91
 Time Sampled: 11:45

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40mm VOA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:
 Bailer Positive Displacement
 Dedicated Other _____

Comments: _____

Monitoring Well Field Sheet

Client: ARCO Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenzo Well I.D.: MW-8

Well Information

Total Depth: 21.6 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 13.35 TOB Product: Yes No
 Depth to Liquid: TOC - TOB Thickness (feet):
 Date: 12-19-91 Color:
 Time: 8:19 Comments:

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 12.5 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 12.5 (gal) Other

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>4</u>	<u>12:10</u>	<u>6.94</u>	<u>1114</u>	<u>62.8</u>	<u>cloudy</u>	<u>Slight</u>
<u>8</u>	<u>12:15</u>	<u>6.99</u>	<u>1156</u>	<u>63.4</u>	<u>↓</u>	<u>↓</u>
<u>12.5</u>	<u>12:20</u>	<u>6.99</u>	<u>1161</u>	<u>63.1</u>	<u>↓</u>	<u>↓</u>

Comments:

Sample Information

Sampler: SP
 Sample I.D.: MW-8
 Date Sampled: 12-20-91
 Time Sampled: 12:25

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 ml VOA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other

Comments:

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenzo Well I.D.: MW-9

Well Information

Total Depth: 18.7 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 13.42 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet): _____
 Date: 12-19-81 Color: _____
 Time: 05:30 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 8 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 8 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>2.5</u>	<u>11:43</u>	<u>6.92</u>	<u>1063</u>	<u>60.9</u>	<u>cloudy</u>	<u>NO</u>
<u>5.5</u>	<u>11:46</u>	<u>6.99</u>	<u>1086</u>	<u>62.3</u>	↓	↓
<u>8</u>	<u>11:50</u>	<u>7.01</u>	<u>1100</u>	<u>62.5</u>	↓	↓

Comments: _____

Sample Information

Sampler: SP
 Sample I.D.: MW-9
 Date Sampled: 12-20-91
 Time Sampled: 11:55

Sample Method:

Bailer Positive Displacement
 Dedicated Other _____

Comments: _____

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 ml JOK</u>	<u>HCl</u>	<u>Gas / BTEX</u>

Monitoring Well Field Sheet

Client: Arco Sampler: SF
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenzo Well I.D.: MW-10

Well Information

Total Depth: 23 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: — TOC1357 TOB Product: Yes No
 Depth to Liquid: — TOC — TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 05:10 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 14 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 14 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
5	10:19	7.05	1076	61.5	clear	strong
10	10:20	6.95	1108	63.5	↓	↓
14	10:21	6.90	1117	64.1	↓	↓

Comments: _____

Sample Information

Sampler: SF
 Sample I.D.: MW-10
 Date Sampled: 12-20-91
 Time Sampled: 10:30

No. Containers	Size/Type	Pres.	Analysis
3	40mg DBA	HCl	Gas/BTEX

Sample Method:

Bailer Positive Displacement

Dedicated Other _____

Comments: _____

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19/12-20
 Location: San Lorenzo Well I.D.: MW-11

Well Information

Total Depth: 19.2 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 14.29 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet): _____
 Date: 12-20-91 Color: _____
 Time: 08:15 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 7.5 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 7.5 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>2.5</u>	<u>10:35</u>	<u>6.85</u>	<u>1061</u>	<u>60.3</u>	<u>cloudy</u>	<u>NO</u>
<u>5</u>	<u>10:38</u>	<u>6.91</u>	<u>1102</u>	<u>61.6</u>	<u>↓</u>	<u>↓</u>
<u>7.5</u>	<u>10:42</u>	<u>6.93</u>	<u>1115</u>	<u>62.1</u>	<u>↓</u>	<u>↓</u>

Comments: _____

Sample Information

Sampler: SP
 Sample I.D.: SP 12-20-91 MW-11
 Date Sampled: 12-20-91
 Time Sampled: 10:45

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40ml vials</u>	<u>HCL</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other _____

Comments: _____

Monitoring Well Field Sheet

Client: ARCO Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 / 12-20
 Location: San Lorenzo Well I.D.: MW-13

Well Information

Total Depth: 23.5 Diameter: 2" (3") 4" 5" 6" _____
 Depth to Water: TOC/16.66/TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 08:23 **Comments:**

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 10.5 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 10.5 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>3.5</u>	<u>11:16</u>	<u>6.96</u>	<u>1075</u>	<u>61.1</u>	<u>Cloudy</u>	<u>NO</u>
<u>7</u>	<u>4:20</u>	<u>6.94</u>	<u>1102</u>	<u>62.9</u>	<u>↓</u>	<u>↓</u>
<u>10.5</u>	<u>11:29</u>	<u>6.94</u>	<u>1136</u>	<u>63.1</u>	<u>↓</u>	<u>↓</u>

Comments:

Sample Information

Sampler: SP
 Sample I.D.: MW-13
 Date Sampled: 12-20-91
 Time Sampled: 11:30

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40ml UGA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other _____

Comments:

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenzo Well I.D.: MW-14

Well Information

Total Depth: 23 Diameter: 2" (3") 4" 5" 6"
 Depth to Water: — TOC 12.39 TOB Product: Yes No
 Depth to Liquid: — TOC — TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 08:07 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 16 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 14 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>5.5</u>	<u>9:51</u>	<u>7.07</u>	<u>953</u>	<u>60.3</u>	<u>Cloudy</u>	<u>NO</u>
<u>11</u>	<u>9:53</u>	<u>7.09</u>	<u>1009</u>	<u>62.4</u>	<u>↓</u>	<u>↓</u>
<u>14</u>	<u>9:54</u>	<u>7.07</u>	<u>1006</u>	<u>62.4</u>	<u>↓</u>	<u>↓</u>

Comments: well dry at 14 gallons.

Sample Information

Sampler: SP
 Sample I.D.: MW-14
 Date Sampled: 12-20-91
 Time Sampled: 10:15

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 ml VOA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:
 Bailer Positive Displacement
 Dedicated Other _____

Comments: _____

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19/12-20
 Location: San Lorenzo Well I.D.: MW-15

Well Information

Total Depth: 23.7 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: — TOC: 3.78 TOB Product: Yes No
 Depth to Liquid: — TOC — TOB Thickness (feet): —
 Date: 12-19-91 Color: —
 Time: 08:03 Comments: —

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 15 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 15 (gal) Other —

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>5</u>	<u>8:40</u>	<u>7.11</u>	<u>1075</u>	<u>58.1</u>	<u>cloudy</u>	<u>Moderate</u>
<u>10</u>	<u>8:41</u>	<u>7.21</u>	<u>1130</u>	<u>60.1</u>	<u>↓</u>	<u>↓</u>
<u>15</u>	<u>8:42</u>	<u>7.17</u>	<u>1150</u>	<u>60.7</u>	<u>↓</u>	<u>↓</u>

Comments: —

Sample Information

Sampler: SP
 Sample I.D.: MW-15
 Date Sampled: 12-20-91
 Time Sampled: 8:50

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 ml JBA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other —

Comments: —

Monitoring Well Field Sheet

Client: Acco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19-91
 Location: San Lorenzo Well I.D.: MW-16

Well Information

Total Depth: 23 Diameter: 2" (3") 4" 5" 6"
 Depth to Water: TOC 14.14 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet):
 Date: 12-19-91 Color:
 Time: 23 Comments:

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 13.5 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 7.5 (gal) Other

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>4.5</u>	<u>9:03</u>	<u>6.96</u>	<u>1033</u>	<u>59.2</u>	<u>Brown</u>	<u>NO</u>
<u>7.5</u>	<u>9:05</u>	<u>7.01</u>	<u>1058</u>	<u>60.8</u>	<u>Brown</u>	<u>NO</u>

Comments: well dry at 7.5 gal

Sample Information

Sampler: SP
 Sample I.D.: MW-16
 Date Sampled: 12-20-91
 Time Sampled: 9:15

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 ml</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:
 Bailer Positive Displacement
 Dedicated Other

Comments:

Monitoring Well Field Sheet

Client: Arc0 Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19-91
 Location: San Lorenzo Well I.D.: MW-17

Well Information

Total Depth: 23.6 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 15.07 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet):
 Date: 12-19-91 Color:
 Time: 07:57 Comments:

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-19-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 13 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 13 (gal) Other

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>4.5</u>	<u>13:27</u>	<u>6.99</u>	<u>996</u>	<u>59.2</u>	<u>Tan</u>	<u>slight</u>
<u>9</u>	<u>13:21</u>	<u>7.05</u>	<u>1034</u>	<u>61.2</u>	<u>cloudy</u>	<u> </u>
<u>13</u>	<u>13:31</u>	<u>7.02</u>	<u>1030</u>	<u>60.8</u>	<u>clear</u>	<u> </u>

Comments:

Sample Information

Sampler: SP
 Sample I.D.: MW-17
 Date Sampled: 12-19-91
 Time Sampled: 13:35

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40ml JJA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other

Comments:

Monitoring Well Field Sheet

Client: ARCO Sampler: SP
 Project No.: 330-06-05 Field Dates: 12-19-91
 Location: San Lorenzo Well I.D.: MW-18

Well Information

Total Depth: 21.7 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 12.9 / TOB Product: Yes No
 Depth to Liquid: TOC - TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 07:50 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information #6

Date Purged: 12-19-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 13 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 13 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>4.5</u>	<u>12:58</u>	<u>6.80</u>	<u>1059</u>	<u>60.3</u>	<u>cloudy</u>	<u>NO</u>
<u>9</u>	<u>13:03</u>	<u>7.09</u>	<u>1083</u>	<u>61.5</u>	<u>↓</u>	<u>↓</u>
<u>13</u>	<u>13:08</u>	<u>7.08</u>	<u>1076</u>	<u>61.0</u>	<u>↓</u>	<u>↓</u>

Comments:

Sample Information

Sampler: SP
 Sample I.D.: MW-18
 Date Sampled: 12-19-91
 Time Sampled: 13:10

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40ml VOA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other _____

Comments:

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19 12-20
 Location: San Lorenzo Well I.D.: MW-19

Well Information

Total Depth: 21.6 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 12.31 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 07:52 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-20-91 Purge Method: Bailor Positive Displacement
 Calculated Purge: 14 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 14 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (umhos)	Temp (°F)	Color	Odor
<u>5</u>	<u>9:27</u>	<u>6.91</u>	<u>1051</u>	<u>58.6</u>	<u>Brown</u>	<u>NO</u>
<u>10</u>	<u>9:28</u>	<u>6.92</u>	<u>1085</u>	<u>60.7</u>	↓	↓
<u>14</u>	<u>9:29</u>	<u>6.96</u>	<u>1102</u>	<u>61.0</u>	↓	↓

Comments: _____

Sample Information

Sampler: SP
 Sample I.D.: MW-19
 Date Sampled: 12-20-91
 Time Sampled: 9:35

No. Containers	Size/Type	Pres.	Analysis
3	40m JOA	HCl	Gas/BTEX

Sample Method:
 Bailor Positive Displacement
 Dedicated Other _____

Comments: _____

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19-91
 Location: San Lorenzo Well I.D.: MW-20

Well Information

Total Depth: 21.7 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 12.48 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet):
 Date: 12-19-91 Color:
 Time: 07:47 Comments:

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-19-91 Purge Method: ^{#5} Bailor Positive Displacement
 Calculated Purge: 14 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 14 (gal) Other

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>5</u>	<u>12:30</u>	<u>7.10</u>	<u>1003</u>	<u>61.2</u>	<u>cloudy</u>	<u>NO</u>
<u>10</u>	<u>12:36</u>	<u>7.03</u>	<u>1017</u>	<u>60.7</u>	<u>↓</u>	<u>↓</u>
<u>14</u>	<u>12:41</u>	<u>7.03</u>	<u>1030</u>	<u>60.7</u>	<u>↓</u>	<u>↓</u>

Comments:

Sample Information

Sampler: SP
 Sample I.D.: SP 12-19-91 MW-20
 Date Sampled: 12-19-91
 Time Sampled: 12:45

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 ml / VOA</u>	<u>HCL</u>	<u>Gas/BTEX</u>

Sample Method:
 ^{#5} Bailor Positive Displacement
 Dedicated Other

Comments:

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19-91
 Location: San Lorenzo Well I.D.: MW-21

Well Information

Total Depth: 22 Diameter: 2" 3" 4" 5" 6" _____
 Depth to Water: TOC 12.68 TOB Product: Yes No
 Depth to Liquid: TOC TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 07:43 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-19-91 Purge Method: Bailer #3 Positive Displacement
 Calculated Purge: 14 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 14 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>5</u>	<u>11:00</u>	<u>6.81</u>	<u>1087</u>	<u>61.0</u>	<u>cloudy</u>	<u>NO</u>
<u>10</u>	<u>11:05</u>	<u>6.66</u>	<u>1084</u>	<u>60.6</u>	<u>↓</u>	<u>↓</u>
<u>14</u>	<u>11:11</u>	<u>6.68</u>	<u>1091</u>	<u>60.9</u>	<u>↓</u>	<u>↓</u>

Comments:

Sample Information

Sampler: SP
 Sample I.D.: MW-21
 Date Sampled: 12-19-91
 Time Sampled: 11:15

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40ml Jars</u>	<u>HCl</u>	<u>Gas / BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other _____

Comments:

Monitoring Well Field Sheet

Client: Arco Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19-91
 Location: Sam LorenZO Well I.D.: MW-22

Well Information

Total Depth: 21.75 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: — TOC 13.9 TOB Product: Yes No
 Depth to Liquid: — TOC — TOB Thickness (feet): —
 Date: 12-19-91 Color: —
 Time: 07:40 Comments: —

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-19-91 Purge Method: ^{#4} Bailor Positive Displacement
 Calculated Purge: 13 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 13 (gal) Other —

Vol (gal)	Time	pH (std. units)	EC (umhos)	Temp (°F)	Color	Odor
4.5	11:35	6.92	1047	57.7	cloudy	NO
9	11:39	6.92	1064	59.1	↓	↓
13.8	11:46	6.90	1079	60.6	↓	↓

Comments: —

Sample Information

Sampler: SP
 Sample I.D.: MW-22
 Date Sampled: 12-19-91
 Time Sampled: 11:50

No. Containers	Size/Type	Pres.	Analysis
3	40mg/20ml	HCl	Gas/BTEX

Sample Method:

Bailor Positive Displacement
 Dedicated Other —

Comments: —

Monitoring Well Field Sheet

Client: ARCO Sampler: SP
 Project No.: 330-06.05 Field Dates: 12-19-91
 Location: San Lorenzo Well I.D.: MW-23

Well Information

Total Depth: 22 Diameter: 2" 3" 4" 5" 6"
 Depth to Water: TOC 14.38 TOB Product: Yes No
 Depth to Liquid: TOC - TOB Thickness (feet): _____
 Date: 12-19-91 Color: _____
 Time: 07:35 Comments: _____

Probe Type: Oil/Water Interface Other Electronic Indicator Bell Sounder

Purge Information

Date Purged: 12-19-91 Purge Method: Bailer Positive Displacement
 Calculated Purge: 11.5 (gal) Centrifugal Dedicated Gas Displacement
 Actual Purge: 11.5 (gal) Other _____

Vol (gal)	Time	pH (std. units)	EC (µmhos)	Temp (°F)	Color	Odor
<u>4</u>	<u>09:45</u>	_____	<u>1313</u>	<u>58.1</u>	<u>Brown</u>	<u>NO</u>
<u>8</u>	<u>09:50</u>	_____	<u>1366</u>	<u>60.8</u>	<u>↓</u>	<u>↓</u>
<u>11.5</u>	<u>10:05</u>	_____	<u>1274</u>	<u>59.7</u>	<u>↓</u>	<u>↓</u>

Comments: _____

Sample Information

Sampler: SP
 Sample I.D.: MW-23
 Date Sampled: 12-19-91
 Time Sampled: 10:10

No. Containers	Size/Type	Pres.	Analysis
<u>3</u>	<u>40 mL VOA</u>	<u>HCl</u>	<u>Gas/BTEX</u>

Sample Method:

Bailer Positive Displacement
 Dedicated Other _____

Comments: _____