HYDRO
ENVIRONMENTAL
TECHNOLOGIES, INC.

ALCO
HAZMAT

94 MAR 30 PM 2:21

March 29, 1994

8-019

Ms. Juliet Shin
Alameda County Department of
Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Re: Former Mobil S/S No. 10-L1X, 15884 Hesperian Boulevard, San Lorenzo, CA

Dear Mr. Shin:

Enclosed please find one copy of Hydro-Environmental Technologies, Inc.'s (HETI's) Quarterly Monitoring Report for sampling conducted on February 18, 1994 at the above-referenced site.

If you have any questions or require additional information, please feel free to call me at (510) 521-2684.

Sincerely,
HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

Scott D. Kellstedt
Operations Manager

enclosure

cc: Ms. Michele Fear - Mobil Oil Corporation, Fairfax, VA (w/o enclosure)

HYDRO
ENVIRONMENTAL
TECHNOLOGIES, INC.

QUARTERLY MONITORING REPORT

Former Mobil Service Station No. 10-L1X
15884 Hesperian Boulevard
San Lorenzo, California

Sampling Date: February 18, 1994

Prepared for:

MOBIL OIL CORPORATION
3225 Gallows Rd., Rm 2M211
Fairfax, VA 22037

Prepared by:

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.
2363 Mariner Square Drive, Suite 243
Alameda, California 94501
HETI Job No. 8-019

March 18, 1994

HYDRO
ENVIRONMENTAL
TECHNOLOGIES, INC.

TABLE OF CONTENTS

1.0 INTRODUCTION

This report presents the results of quarterly ground water sampling conducted by Hydro-Environmental Technologies, Inc. (HETI) at former Mobil Service Station No. 10-L1X, located at 15884 Hesperian Boulevard in San Lorenzo, California. A site location map is attached as Figure 1. Ground water sampling was performed on February 18, 1994.

Work performed at the site by HETI included: (1) well gauging, (2) well purging, (3) collection of ground water samples from all monitoring wells at the site and (4) analysis of water samples for total petroleum hydrocarbons as gasoline (TPHg) using EPA Method 8015 (modified), and benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8020 (modified).

2.0 BACKGROUND

The site was previously a Mobil gasoline service station located at the northern corner of the intersection of Hesperian Boulevard and Post Office Street in San Lorenzo, California. It is presently a paved parking lot for a shopping mall. Figure 2 shows the vicinity of the site, and Figure 3 shows the layout of the site and the location of existing monitoring wells.

In July 1986, Kaprealian Engineering, Inc. (KEI) installed four two-inch diameter monitoring wells (MW-1 through MW-4) on-site. In December 1987, in preparation to abandon the site, the underground storage tanks were removed and the tank pit was over-excavated.

In October 1991, HETI continued with further subsurface investigation. After HETI's initial site inspection to locate the wells, the following conditions were observed: monitoring well MW-2 was found in good condition, the casing to MW-3 was broken off and debris had filled the well, and wells MW-1 and MW-4 could not be located and their existence/condition is unknown.

In January 1992, HETI installed three monitoring wells on-site (MW-5, MW-6 and MW-7) and properly abandoned monitoring well MW-3. Results of that phase of the investigation and a detailed project history were presented in HETI's *Phase I Report* dated May 7, 1992.

In August 1993, HETI installed one additional downgradient monitoring well (MW-8), off-site on the southwestern side of Hesperian Boulevard. Results of that phase of the investigation were presented in HETI's *Phase II Subsurface Investigation and Quarterly Monitoring Report* dated September 16, 1993. All monitoring well locations are shown on the Site Plan (Figure 3).

3.0 FIELD ACTIVITIES

HETI personnel collected ground water samples from all monitoring wells at the site on February 18, 1994. All sampling was performed according to HETI standard protocol, using methods which are consistent with guidelines established by the lead regulatory agencies. A copy of HETI's Ground Water Sampling Protocol has previously been submitted to the Alameda County Department of Environmental Health (ACDEH).

Prior to purging, the depth to water in each of the three wells to be sampled was gauged to the nearest hundredth of a foot using an electronic water sounder. All five wells were re-gauged on February 24, 1994 in order to provide ground water data for use in preparing ground water elevation contours. Prior to sampling, the wells were purged of three well casing volumes or purged dry while the parameters of temperature, pH and conductivity were monitored for stabilization. Purging data is included in Appendix A.

Following recovery of the water level in the wells to at least 80 percent of their static level, ground water samples were collected with dedicated bailers. The samples were transferred to sample containers provided by the analytical laboratory. Sample containers were documented, labeled and placed in a cooler. A chain of custody was prepared and accompanied the samples to the laboratory; a copy is included in Appendix B. Ground water sample analysis was performed by Sequoia Analytical, a state DHS-certified laboratory located in Redwood City, California.

4.0 RESULTS

4.1 Ground Water Data

On February 24, 1994, depth to ground water in the wells ranged between 10.30 to 11.55 feet below grade. Depth to water measurements and calculated ground water elevations in the wells are presented on Table 1. The depth to water measurements and the wellhead elevation data were used to calculate ground water elevation contours. These contours are shown on Figure 4, the Ground Water Contour Map. Figure 4 shows ground water flow to be towards the southwest at an approximate gradient of 0.0025 ft/ft (0.25%).

4.2 Laboratory Analytical Results

Neither TPHg nor BTEX were detected in concentrations exceeding the method detection limits in the ground water samples collected from any of the monitoring wells except well MW-7. TPHg and benzene were detected in the ground water sample collected from well MW-7 at concentrations of 61 ppb and 1.2 ppb, respectively.

Analytical results are presented graphically on Figure 5, the Hydrocarbon Concentration Map. A summary of ground water analytical results is presented on Table 1. Copies of the laboratory reports and the chain-of-custody forms are attached in Appendix B.

5.0 SUMMARY

The results of the field activities and laboratory analyses of soil and ground water samples collected during this investigation are discussed below.

- Ground water levels measured in all the wells ranged from 10.30 to 11.55 feet below grade. The ground water gradient was calculated to be approximately 0.0025 ft/ft in a general southwesterly direction beneath the site.

- Separate phase petroleum was not detected in any of the monitoring wells.

- Neither TPHg nor BTEX were detected in the ground water samples collected from any of the monitoring wells except MW-7.

6.0 RECOMMENDATIONS

Pursuant to recommendations presented in HETI's *Quarterly Monitoring Report* dated February 3, 1994, MW-2 will be deleted from the sampling program starting with the next sampling event, since no benzene has been detected in samples collected from that well for four consecutive quarters. HETI will confirm authorization with the Alameda County Department of Environmental Health before conducting the next sampling round.

7.0 CERTIFICATION

This report was prepared under the supervision of a registered professional engineer. All statements, conclusions and recommendations are based solely upon field observations and analytical analyses performed by a state-certified laboratory related to work performed by Hydro-Environmental Technologies, Inc.

It is possible that variations in soil or ground water conditions exist beyond the points explored in this investigation. Also, site conditions are subject to change at some time in the future due to variations in rainfall, temperature, regional water usage, or other factors.

The service performed by Hydro-Environmental Technologies, Inc. has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

Hydro-Environmental Technologies, Inc. includes in this report chemical analytical data from a state-certified laboratory. These analyses are performed according to procedures suggested by the U.S. EPA and the State of California. Hydro-Environmental Technologies, Inc. is not responsible for laboratory errors in procedure or result reporting.

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

Prepared by:

Ruary Allan
Staff Geologist

Reviewed by:

Scott Kellstedt
Office Operations Manager

Reviewed by:

REGISTERED PROFESSIONAL ENGINEER
No. 3545
EXP 9/30/94
CHEMICAL
STATE OF CALIFORNIA

John Turney P.E.
Senior Engineer

TABLES

Table 1

GROUND WATER ELEVATIONS AND ANALYTICAL RESULTS

Former Mobil Station No. 10-L1X
15884 Hesperian Boulevard
San Lorenzo, California

MW-No.	Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHd (ppb)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-2	2/12/92	31.81	12.74	19.07	NT	190	4.4	ND<0.3	4.7	3.8
	5/4/92	31.81	11.36	20.45	NT	480	9.1	1.4	4.4	2.3
	8/20/92	31.81	13.80	18.01	NT	ND<50	0.99	ND<0.5	ND<0.5	ND<0.5
	11/27/92	31.81	14.30	17.51	NT	56	3.2	ND<0.5	0.87	2.1
	2/24/93	31.81	9.73	22.08	NT	330	14	ND<0.5	ND<0.5	ND<0.5
	5/19/93	31.81	11.82	19.99	NT	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/19/93	31.81	12.27	19.54	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/19/93	31.81	12.91	18.90	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/18/94*	31.81	10.30	21.51	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-5	2/12/92	32.92	13.59	19.33	ND<50	0.3	ND<0.3	ND<0.3	ND<0.3	ND<0.3
	5/4/92	32.92	12.25	20.67	ND<50	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3
	8/20/92	32.92	14.62	18.30	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/27/92	32.92	15.14	17.78	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	32.92	10.57	22.35	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/19/93	32.92	11.66	21.26	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/19/93	32.92	13.01	19.91	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/19/93	32.92	13.69	19.23	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/18/94*	32.92	11.10	21.82	NT	NT	NT	NT	NT	NT
MW-6	2/12/92	32.68	13.57	19.11	NT	2700	14	3.5	27	39
	5/4/92	32.68	12.23	20.45	NT	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3
	8/20/92	32.68	14.64	18.04	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	3.8
	11/27/92	32.68	15.14	17.54	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/24/93	32.68	10.62	22.06	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	5/19/93	32.68	11.66	21.02	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	8/19/93	32.68	13.06	19.62	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5

Table 1

GROUND WATER ELEVATIONS AND ANALYTICAL RESULTS

Former Mobil Station No. 10-L1X
15884 Hesperian Boulevard
San Lorenzo, California

MW-No.	Date	TOC (feet)	DTW (feet)	GWE (feet)	TPHd (ppb)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-6	11/19/93	32.68	13.73	18.95	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/18/94*	32.68	11.20	21.48	NT	NT	NT	NT	NT	NT
MW-7	2/12/92	33.08	13.90	19.18	NT	ND<30	ND<0.3	ND<0.3	ND<0.3	ND<0.3
	5/4/92	33.08	12.60	20.48	NT	640	4.5	ND<0.6	11	14
	8/20/92	33.08	14.96	18.12	NT	220	1.2	ND<0.5	3.8	4.3
	11/27/92	33.08	15.49	17.59	NT	82	1.6	ND<0.5	4.3	3.6
	2/24/93	33.08	10.97	22.11	NT	82	1.5	ND<0.5	6.0	4.0
	5/19/93	33.08	12.09	20.99	NT	67	0.85	ND<0.5	6.4	3.8
	8/19/93	33.08	13.48	19.60	NT	88	1.7	ND<0.5	9.0	4.8
	11/19/93	33.08	14.10	18.98	NT	50	ND<0.5	ND<0.5	1.5	ND<0.5
	2/18/94*	33.08	11.55	21.53	NT	61	1.2	ND<0.5	8.0	3.2
MW-8	8/19/93	31.31	12.21	19.10	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/19/93	31.31	12.84	18.47	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	2/18/94*	31.31	10.41	20.90	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5

MW-No.	Date	TOG (ppm)	HVO (ppb)	SVO (ppb)	PCB (ppb)	Cd (ppm)	Cr (ppm)	Ni (ppm)	Zn (ppm)	O-Pb (ppm)
MW-5	2/12/92	ND<1.0	ND<0.5-5.0	NT	NT	ND<0.010	ND<0.010	ND<0.050	ND<0.010	ND<0.050
	5/4/92	ND<1.0	ND<0.5-5.0	NT	NT	ND<0.010	ND<0.010	ND<0.050	ND<0.010	ND<0.050
	8/20/92	ND<1.0	ND<0.5-5.0	ND<2-10	ND<0.5-2.0	ND<0.010	ND<0.010	ND<0.050	0.012	ND<0.050

Table 1

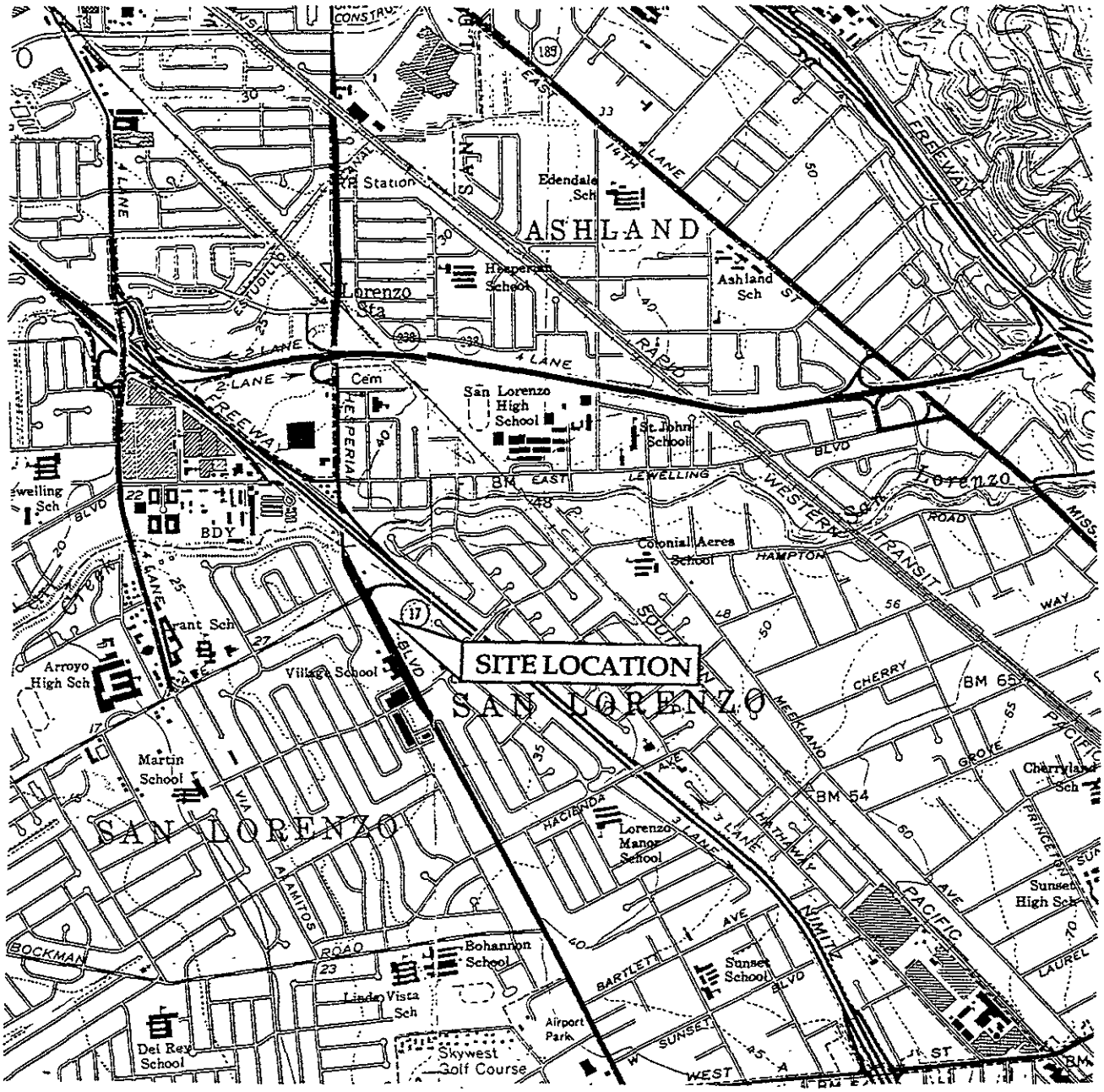
GROUND WATER ELEVATIONS AND ANALYTICAL RESULTS

Former Mobil Station No. 10-L1X
15884 Hesperian Boulevard
San Lorenzo, California

Notes:

MW No. :	Monitoring well number
Date :	Ground water sample collection date
TOC :	Elevation at the north side of the top of the well casing referenced to approximate mean sea level
DTW :	Depth to water
GWE :	Ground water elevation
TPHd :	Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg :	Total petroleum hydrocarbons as gasoline by EPA Method 8015
BTEX :	Benzene, Toluene, Ethylbenzene and total Xylenes by EPA Method 8020
TOG :	Total oil and grease by EPA Method 413.2 (I.R.)
HVO :	Halogenated volatile organics by EPA Method 8010
SVO:	Semi-volatile organics by EPA Method 8270 GC/MS
PCB:	Polychlorinated biphenyls by EPA Method 8080
Cd, Cr, Ni, Zn :	Cadmium, chromium, nickel and zinc by EPA Method 6000
O-Pb	Organic lead by California LUFT Manual (revised)
ppb :	Parts per billion (µg/L)
ppm :	Parts per million (mg/L)
ND :	Not detected in concentrations exceeding the indicated laboratory method detection limit
NT :	Not tested
*	Wells gauged on 2/24/94

FIGURES



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

NORTH

QUADRANGLE LOCATION

SOURCE: U.S. GEOLOGICAL SURVEY
7.5 MINUTE QUADRANGLE MAPS
ENTITLED: "SAN LEANDRO, CALIFORNIA"
AND "HAYWARD, CALIFORNIA"
PHOTOREVISED 1980

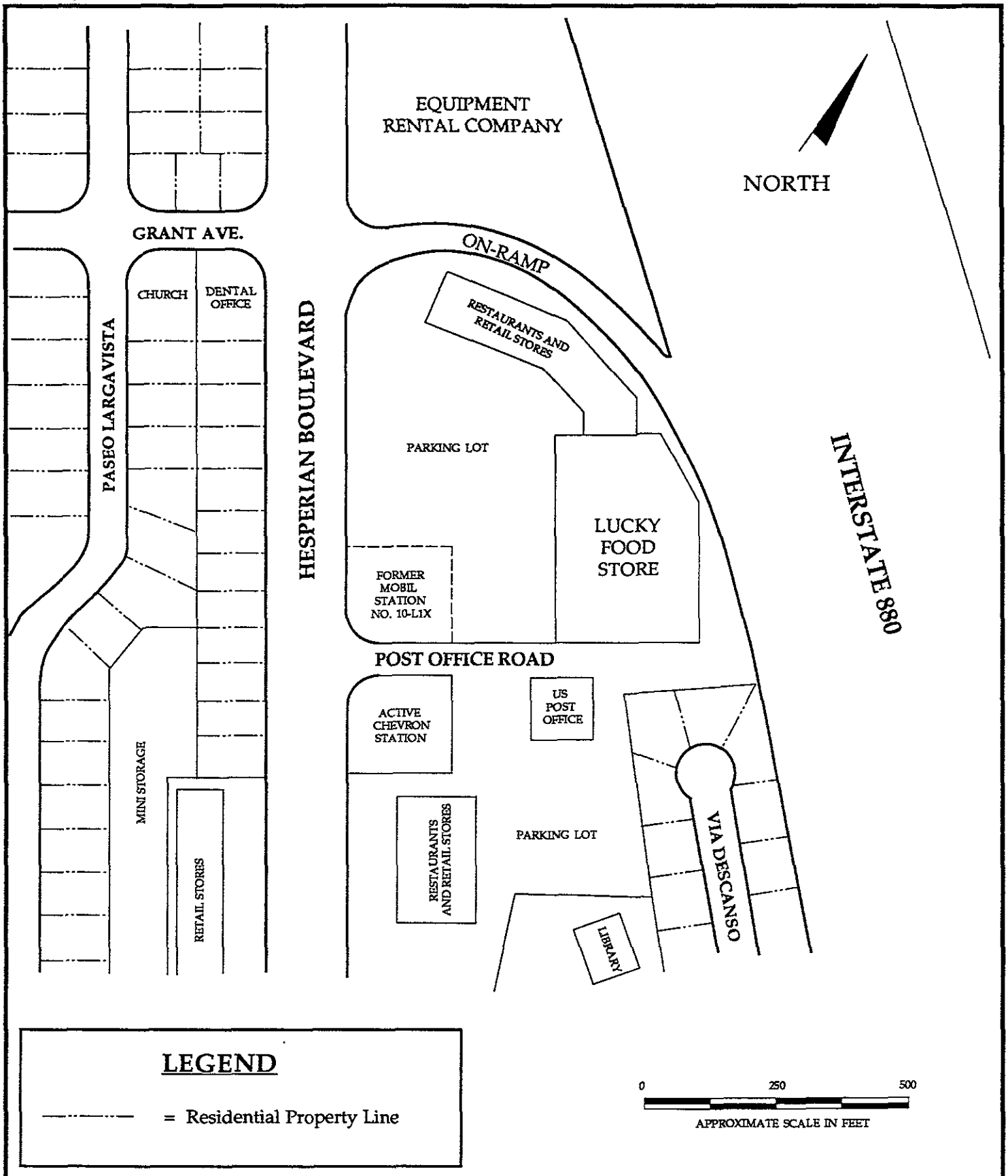
HYDR-
ENVIRONMENTAL
TECHNOLOGIES, INC.

SITE LOCATION MAP

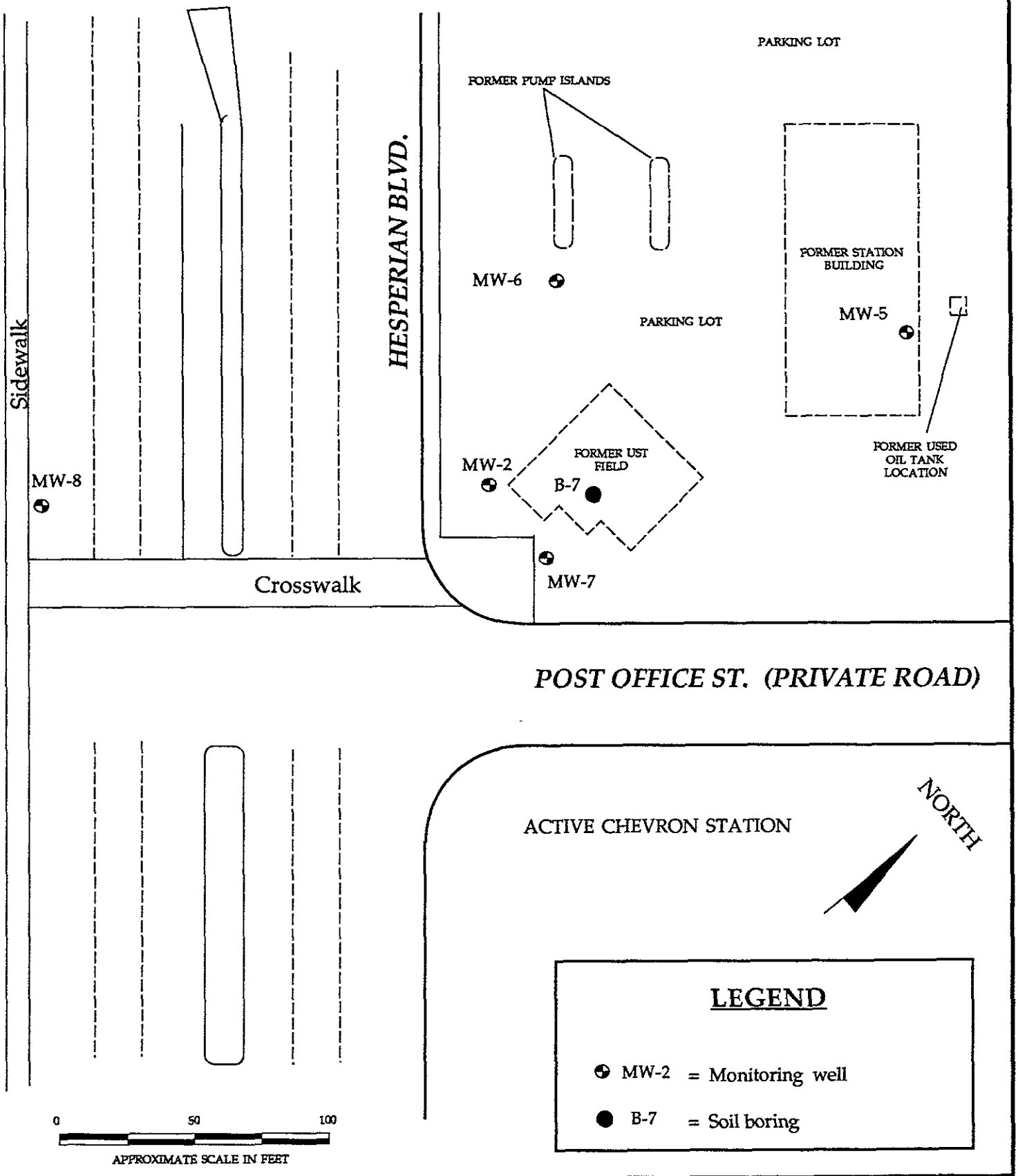
Former Mobil Service Station No. 10-L1X
15884 Hesperian Boulevard
San Lorenzo, California

Figure
1

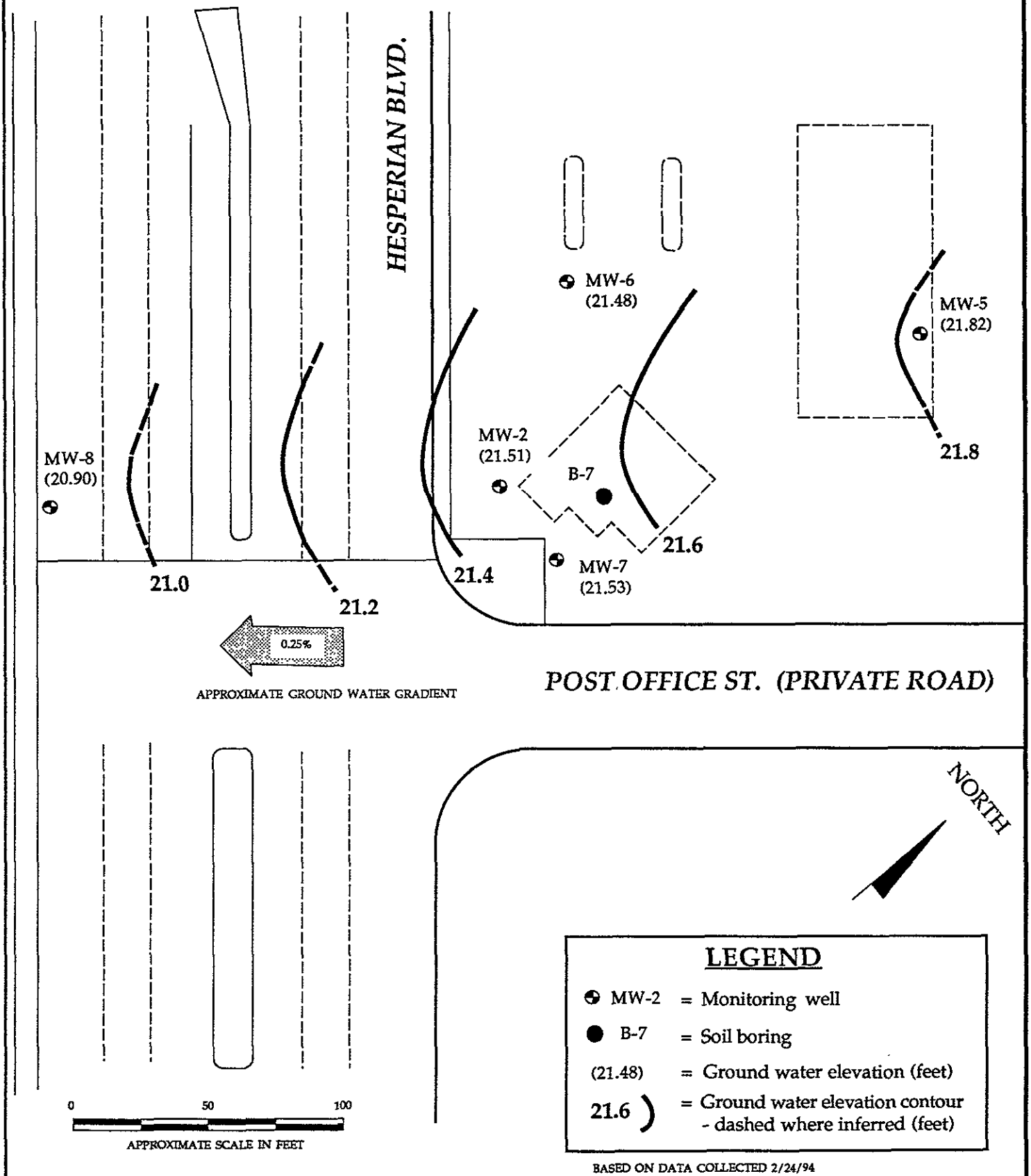
8-019 1/94



HYDR◆- ENVIR◆NMENTAL TECHN◆LOGIES, INC.	**SITE VICINITY MAP** Former Mobil Service Station No. 10-L1X 15884 Hesperian Boulevard San Lorenzo, California	Figure **2** 8-019 9/93



HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.	**SITE PLAN** Former Mobil Service Station No. 10-L1X 15884 Hesperian Blvd. San Lorenzo, California	Figure **3** 8-019 9/93

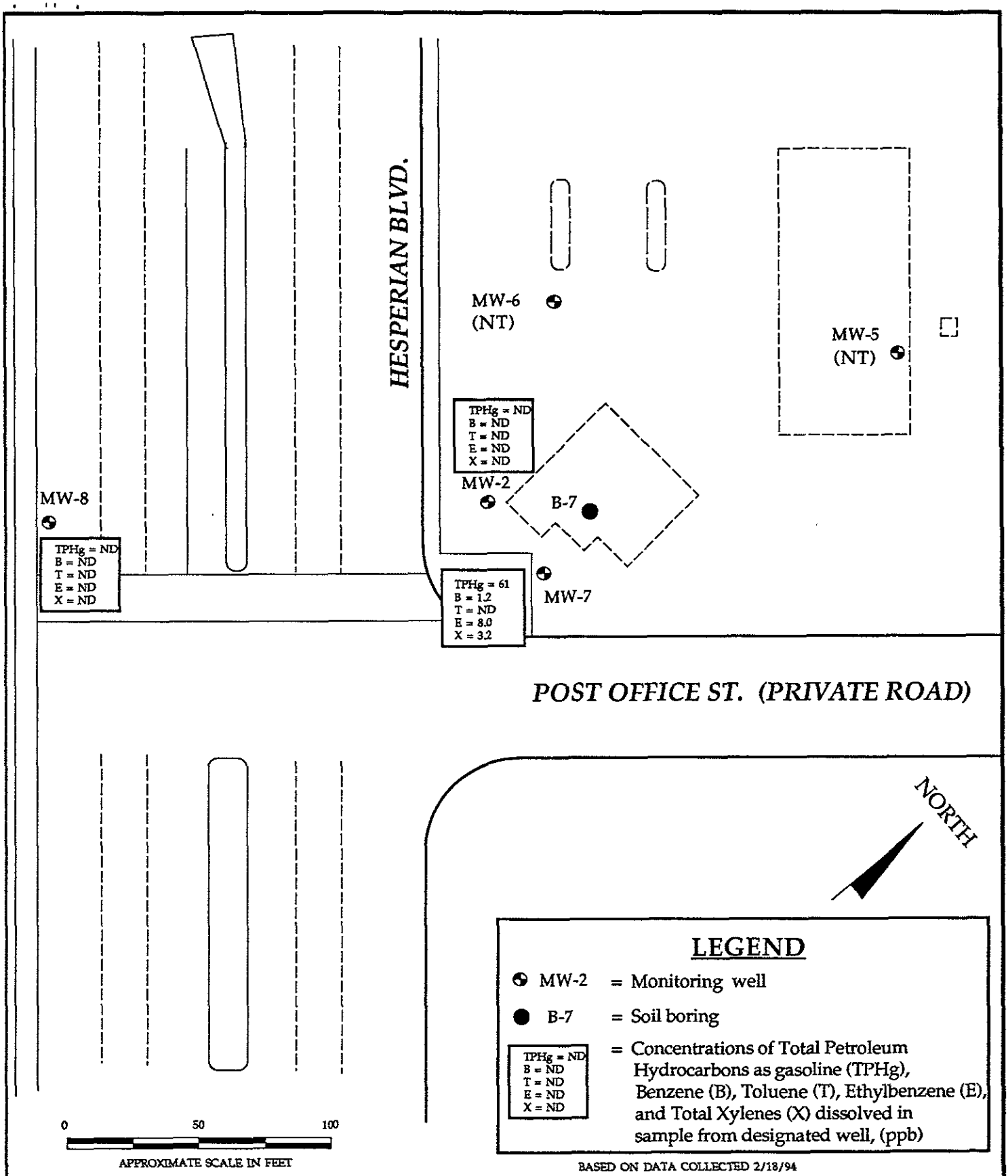


HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

GROUND WATER CONTOUR MAP
Former Mobil Service Station No. 10-L1X
15884 Hesperian Blvd.
San Lorenzo, California

Figure 4

8-019 3/94



HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.	HYDROCARBON CONCENTRATION MAP Former Mobil Service Station No. 10-L1X 15884 Hesperian Blvd. San Lorenzo, California	Figure 5 8-019 3/94

APPENDIX A

PURGED/SAMPLED BY: RA DATE: 2-18-94

GAUGING DATA:

Depth to bottom: 25.75 ft.

Depth to water: 10.78 ft.

Saturated Thickness: 14.97 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 2.4 gallons

volumes to purge x 3 vols.

*Total volume to purge = 7.5 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer/ Submersible pump/ Suction lift pump/ _____ (circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
2.10	0			
	3	64	1.45	7.31
	5.5	67.3	1.55	7.33
2.15	8	68.2	1.55	7.28

Color: gray Turbidity: mod

Recharge: good SPP 0 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010
TPHd	O-Pb	TEL	8020
TPH mo	Total Pb	EDB	8240
601	602	Nitrates	8260 8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

MONITORING WELL PURGE/SAMPLE SHEET

WELL # MW-2

LOCATION Mobil San Lorenzo

Job No. 8-019

SHEET 1 of 1

PURGED/SAMPLED BY: RA DATE: 2-18-94

GAUGING DATA:

Depth to bottom: 24.25 ft.

Depth to water: 11.97 ft.

Saturated Thickness: 12.28 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 7.98 gallons

volumes to purge x 3 vols.

*Total volume to purge = 24 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer/ Submersible pump/ Suction lift pump/ _____
(circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
2-30	0			
	5	68.7	1.00	10.08
	10	69.5	1.12	9.10
	15	69.3	1.28	8.50
2.38	20	70.1	1.42	7.90
	24	Well dry at 20gal.		

Color: tan Turbidity: mod

Recharge: poor-mod SPP 0 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

MONITORING WELL PURGE/SAMPLE SHEET

WELL # MW-7

LOCATION Mobil, San Lorenzo

Job No. 8-019

SHEET 1 of 1

PURGED/SAMPLED BY: RA DATE: 2-18-94

GAUGING DATA:

Depth to bottom: 22.4 ft.

Depth to water: 10.82 ft.

Saturated Thickness: 11.58 ft.

Conversion	
diam.	gals/ft.
2 in.	x 0.16
4 in.	x 0.65
6 in.	x 1.44

Well casing volume 1.85 gallons

volumes to purge x 3 vols.

*Total volume to purge = 6 gallons

* unless chemical parameters stabilize earlier

PURGING DATA:

Purge method: PVC bailer / Submersible pump/ Suction lift pump/ _____
(circle one)

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
1400	0			
	3	67.8	1.21	7.75
1405	6	68.1	1.13	7.68

Color: tan Turbidity: mod

Recharge: good SPP 0 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / _____

Sample for: (circle)

TPHg/BTEX	METALS	TOG	8010	
TPHd	O-Pb	TEL	8020	
TPH mo	Total Pb	EDB	8240	
601	602	Nitrates	8260	8270

Other: _____

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

MONITORING WELL PURGE/SAMPLE SHEET

WELL # MW-8

LOCATION Mobil, San Lorenzo

Job No. 8-019

SHEET 1 of 1

APPENDIX B

RECEIVED MAR - 7 1994

SEQUOIA ANALYTICAL

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

Hydro Environmental	Client Project ID:	8-019, Mobil 10-LIX	Sampled: Feb 18, 1994
2363 Mariner Sq. Dr., Bldg. 3, Ste 243	Sample Matrix:	Water	Received: Feb 22, 1994
Alameda, CA 94501	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 1, 1994
Attention: Scott Kellstedt	First Sample #:	4BC7301	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 4BC7301 MW-2	Sample I.D. 4BC7302 MW-7	Sample I.D. 4BC7303 MW-8
Purgeable Hydrocarbons	50	N.D.	61	N.D.
Benzene	0.50	N.D.	1.2	N.D.
Toluene	0.50	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	8.0	N.D.
Total Xylenes	0.50	N.D.	3.2	N.D.
Chromatogram Pattern:		--	Gas	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	2/23/94	2/23/94	2/23/94
Instrument Identification:	GCHP-3	GCHP-3	GCHP-3
Surrogate Recovery, %: (QC Limits = 70-130%)	114	97	105

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

VM Tague

Vickie Tague
Project Manager

SEQUOIA ANALYTICAL

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

Hydro Environmental
2363 Mariner Sq. Dr., Bldg. 3, Ste 243
Alameda, CA 94501
Attention: Scott Kellstedt

Client Project ID: 8-019, Mobil 10-LIX
Matrix: Liquid
QC Sample Group: 4BC7301-3

Reported: Mar 1, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD Batch#:	4BC0223	4BC0223	4BC0223	4BC0223
Date Prepared:	-	-	-	-
Date Analyzed:	2/23/94	2/23/94	2/23/94	2/23/94
Instrument I.D.#:	GCHP-3	GCHP-3	GCHP-3	GCHP-3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Matrix Spike % Recovery:	120	120	120	117
Matrix Spike Duplicate % Recovery:	130	130	120	123
Relative % Difference:	8.0	8.0	0.0	5.0
LCS Batch#:	-	-	-	-
Date Prepared:	-	-	-	-
Date Analyzed:	-	-	-	-
Instrument I.D.#:	-	-	-	-
LCS % Recovery:	-	-	-	-
% Recovery Control Limits:	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL

Vickie Tague
Project Manager

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

Mobil Chain of Custody

SEQUOIA ANALYTICAL

Redwood City: (415) 364-9600
Concord: (510) 686-9600
Sacramento: (916) 921-9600

Consulting Firm Name: HYDRO-ENVIRONMENTAL TECH.	Site SS #: 10-LIX / SAN LORENZO
Address: 2363 MARINER SQ DR #263	Mobil Site Address: 15884 Hesperian Blvd
City: ALAMEDA State: CA Zip Code: 94501	Mobil Engineer: Michelle Fear
Telephone: (510) 521-2684 FAX #: 521-5078	Consultant Project #: 8-019
Project Contact: SCOTT KELLSTED Sampled by: R. ALLAN	Sequoia's Work Order Release #:

Phase of Work:
- ☐ A. Emrg. Response
- ☐ B. Site Assessment
- ☐ C. Remediation
- ☑ D. Monitoring
- ☐ E. OGC/Claims

Turnaround Time: ☒ Standard TAT (5 - 10 Working Days)
☐ Other _____

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	TPH Gas/BTEX	TPH Diesel	TRPH by I.R. EPA 418.1	Oil & Grease EPA 413.2					Comments
1. MW-2	2-18-94 2PM	H_2O	2		X					9402C73-			01
2. MW-7	"	"	"		"							-	02
3. MW-8	"	"	"		"							-	03
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished By: Rosary Allan	Date: 2-21-94	Time: 12 AM	Received By: X. Willstead	Date: 2/21/94	Time: 12 pm
Relinquished By: X. Willstead	Date: 2/22-94	Time: 12:10	Received By: D Phillips	Date: 2/22 94	Time: 12:10
Relinquished By: D Phillips	Date: 2-22-94	Time: 1:05	Received By: S. Davis	Date: 2/22/94	Time: 13:05