

# Mobil Oil Corporation

3800 WEST ALAMEDA AVENUE, SUITE 700  
BURBANK, CALIFORNIA 91505-4331

October 8, 1992

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

**FORMER MOBIL SS# 10-L1X  
15884 HESPERIAN BLVD.  
SAN LORENZO, CALIFORNIA**

Dear Ms. Shin,

Enclosed is the Quarterly Monitoring Report for the above-referenced location, as prepared by our consultant, Hydro-Environmental Technologies, Inc. (HETI).

Groundwater samples were collected from the four existing monitoring wells (MW-2, -5, -6, and -7) on August 20, 1992. Only monitoring wells MW-2 and MW-7, which are located downgradient of the former USTs, contained detectable concentrations of TPHg and BTEX (up to 220-ppb TPHg and 1.2-ppb benzene in MW-7).

We had planned to install two downgradient, off-site MWS to further delineate the extent of groundwater contamination and determine if remediation is warranted at this site. However, we have been denied property access to drill and install these wells by both private property owners and the Alameda County Department of Public Works (see enclosed letter and site plan from HETI). Ideally, these wells would be installed in the "travelled way" of Hesperian Blvd. Any assistance you may be able to provide in helping us to obtain access from the Alameda County Department of Public Works to install these wells would be greatly appreciated. wells

Please review the enclosed report. Should you have any comments or require additional information, please contact me at (818) 953-2649.

Sincerely,



Randy Begier  
Environmental Project  
Engineer

93-011 0.10036

cc: Rich Hiett, CRWQCB - S.F. Bay Region (w/enclosure)  
Brian Gwinn, HETI  
D.J. Hill, Mobil

**QUARTERLY MONITORING REPORT**

**Sample Date: August 20, 1992**

**Former Mobil S/S No. 10-L1X  
15884 Hesperian Blvd.  
San Lorenzo, California**

Prepared for:

**MOBIL OIL CORPORATION  
3800 West Alameda Avenue, Suite 2000  
Burbank, CA 91505**

Prepared by:

**HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.**

**2363 Mariner Square Drive, Suite 243  
Alameda, California 94501  
HETI Job No. 8-019**

**September 30, 1992**

2363 MARINER SQUARE DRIVE  
ALAMEDA, CA 94501  
HETI JOB NO. 8-019  
SEP 30 1992

**CERTIFICATION**

This report was prepared under the supervision of a certified engineering geologist. All statements, conclusions and recommendations are based solely upon field observations and analytical test results related to the work performed by Hydro-Environmental Technologies, Inc.

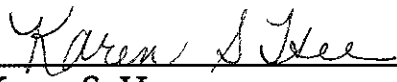
Site conditions are subject to change with time; therefore, our conclusions result only from the interpretation of present conditions and available site information. This report was prepared in accordance with accepted professional standards and technical procedures as certified below.


HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

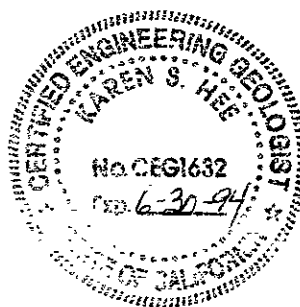
Prepared by:

  
Henry A. Hurkmans  
Staff Geologist

Reviewed by:

  
Karen S. Hee  
C.E.G. No. 1632

  
Brian M. Gwinn  
Project Manager



## 1.0 Introduction

The purpose of this report is to present the results of Hydro-Environmental Technologies, Inc.'s (HETI's) quarterly water sampling for the former Mobil Service Station No. 10-L1X previously located at 15884 Hesperian Boulevard in San Lorenzo, California. Well sampling was performed on August 20, 1992.

Work performed at the site by HETI included: (1) well gauging, (2) well purging, and (3) collection of ground water samples from each of the wells. All documentation related to the field work is appended to this report.

Ground water samples collected from the wells were analyzed for total low to medium boiling point petroleum hydrocarbons (TPHg), and benzene, toluene, ethylbenzene, and xylenes (BTEX), using EPA method 8015/8020 (DHS modified). Water samples collected from MW-5 were also analyzed for: total petroleum hydrocarbons as diesel (TPHd) using EPA Method 8015 (DHS-modified), total oil and grease (TOG) using EPA Method 413.2, halogenated volatile organics (HVO) using EPA Method 8010, cadmium, chromium, nickel, and zinc (Cd, Cr, Ni, Zn) using EPA method 6000 series, and organic lead (O-Pb) using methods described in the California LUFT manual.

At the request of Ms. Juliet Shin of the Alameda County Department of Environmental Health, water samples collected from MW-5 this quarter were also analyzed for polychlorinated biphenyls (PCB) using EPA Method 8080, and semi-volatile organics (SVO) using gas chromatography/mass spectroscopy EPA Method 8270.

## 2.0 Background

The site is located at 15884 Hesperian Blvd., in San Lorenzo, California (Figure 1), and is currently paved over and used as a parking lot for a shopping mall (Figure 2). Kaprealian Engineering, Inc. (KEI) installed four two-inch diameter monitoring wells, designated MW-1 through MW-4, at the site in July 1986. In preparation to abandon the site, the underground storage tanks were removed and the tank pit was overexcavated in December 1987.

Mobil retained HETI in October 1991 to continue 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 in the well, and wells MW-1 and MW-4 could not be located and their existence/condition is unknown.

HETI installed three monitoring wells on-site , designated MW-5, MW-6 and MW-7, and properly abandoned monitoring well MW-3 in January 1992. Monitoring well locations are shown on the Site Plan (Figure 3). Results of that phase of investigation and detailed project history are presented in HETI's Phase I Report dated May 7, 1992.

### **3.0 Field Activities**

HETI collected water samples from monitoring wells MW-2, MW-5, MW-6 and MW-7 on August 20, 1992. Prior to sampling the depth to water in each of the wells was gauged to the nearest hundredth of a foot using an interface probe. No separate-phase petroleum was detected in any of the wells. Prior to sampling all monitoring wells were purged until temperature, conductivity, and pH had stabilized or until they went dry. Gauging and purging data is included in Appendix A.

Following recovery of water levels in the wells to at least 70 percent of their static water level, water samples were collected from each well with a dedicated bailer. Each sample was transferred to sample containers appropriate for the analysis to be performed. Sample containers were documented, labeled and placed in a chilled cooler. A chain of custody was prepared and accompanied the samples to the laboratory; a copy is included in Appendix B. Water sample analysis was performed by Sequoia Analytical, a state DHS-certified laboratory located in Redwood City, California.

### **4.0 Results of Monitoring**

#### **4.1 Ground Water Data**

The depth to ground water in each of the wells was approximately 18 feet below grade, according to the well gauging conducted for this investigation. The depth to water data was combined with wellhead elevation data previously collected by HETI to calculate ground water elevations. These elevations were used to produce the potentiometric surface contours shown on Figure 4. Ground water flows towards the southwest at a gradient of 0.0045 ft/ft (0.45%). Although, ground water levels in the wells have fallen an average of 2.4 feet since the last quarter, ground water flow direction and gradient calculated during this quarter are generally consistent with those calculated previously.

## **4.2 Laboratory Analytical Results**

TPHg and BTEX compounds were detected in the water sample collected from well MW-7 at concentrations of 220 and 1.2/ND/3.8/4.3 parts per billion (ppb), respectively. Benzene was detected in the water sample collected from MW-2 at a concentration of 0.99 ppb. TPHg and BTEX compounds were not detected in concentrations exceeding the method detection limit in water samples collected from wells MW-5 and MW-6.

Zinc was detected at a concentration of 0.012 parts per million (ppm) in the water sample collected from MW-5. TPHd, TOG, HVO, Cd, Cr, Ni, O-Pb, PCB, and SVO were not detected at concentrations exceeding method detection limits in the sample collected from MW-5. HETI recommends that these analyses not be repeated for the next sampling event.

Water sample analytical results are summarized in Table 1 and presented graphically on the Dissolved TPHg and BTEX Distribution Map (Figure 5). Cumulative water sample analytical results are summarized in Table 2. Analyte concentrations detected this quarter are generally lower than those detected in previous quarters. A copy of the laboratory report is included in Appendix B.

## **5.0 Status of Investigative Activities**

The next proposed phase of investigation at the site includes the installation of a monitoring well in Hesperian Boulevard, to delineate the downgradient extent of the dissolved hydrocarbon plume. Details of the next phase of investigation can be found in HETI's proposed workplan dated May 11, 1992.



# TABLES



Table 1  
**GROUND WATER SAMPLES**  
**SUMMARY OF ANALYTICAL RESULTS**  
**Former Mobil Station No. 10-L1X**  
**15884 Hesperian Boulevard**  
**San Lorenzo, California**

Sampling Date: August 20, 1992

MW No.	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-2	ND	0.99	ND	ND	ND
MW-5	ND	ND	ND	ND	ND
MW-6	ND	ND	ND	ND	ND
MW-7	220	1.2	ND	3.8	4.3

TPHg = Total low to medium boiling point petroleum hydrocarbons by EPA Method 8015 (DHS modified)

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

BTEX analyzed by EPA Method 8020

ND = Not detected at concentrations exceeding the method detection limit

Note: The following analytes were not detected in concentrations exceeding the method detection limit in the water samples collected from MW-5:

- Total high boiling point petroleum hydrocarbons (TPHd) by EPA Method 8015 (DHS-mod.)
- Total oil and grease (TOG) by EPA Method 413.2 (I.R.)
- Halogenated volatile organics (HVO) by EPA Method 8010
- Cadmium, chromium, and nickel (Cd, Cr, Ni) by EPA Method 6000 series
- Organic Lead (O-Pb) by methods described in California LUFT Manual (revised)
- Semi-volatile organics (SVO) by GC/MS EPA Method 8270
- Polychlorinated biphenyls (PCB) by EPA Method 8080

Note: Zinc (Zn) was detected in a water sample collected from MW-5 at a concentration of 0.012 ppm by EPA Method 6000 series with a method detection limit of 0.010 ppm

**Table 2**  
**GROUND WATER SAMPLES**  
**CUMULATIVE ANALYTICAL RESULTS**  
**Mobil Service Station No. 10-L1X**  
**15884 Hesperian Boulevard**  
**San Lorenzo, California**

MW No.	Date	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
MW-2	2/12/92	190	4.4	ND	4.7	3.8
	5/4/92	480	9.1	1.4	4.4	2.3
	8/20/92	ND	0.99	ND	ND	ND
MW-5	2/12/92	ND	ND	ND	ND	ND
	5/4/92	ND	ND	ND	ND	ND
	8/20/92	ND	ND	ND	ND	ND
MW-6	2/12/92	2,700	14	3.5	27	39
	5/4/92	ND	ND	ND	ND	ND
	8/20/92	ND	ND	ND	ND	ND
MW-7	2/12/92	ND	ND	ND	ND	ND
	5/4/92	640	4.5	ND	11	14
	8/20/92	220	1.2	ND	3.8	4.3

TPHg = Total low to medium boiling point petroleum hydrocarbons

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

ND = Not detected at concentrations exceeding the method detection limit.

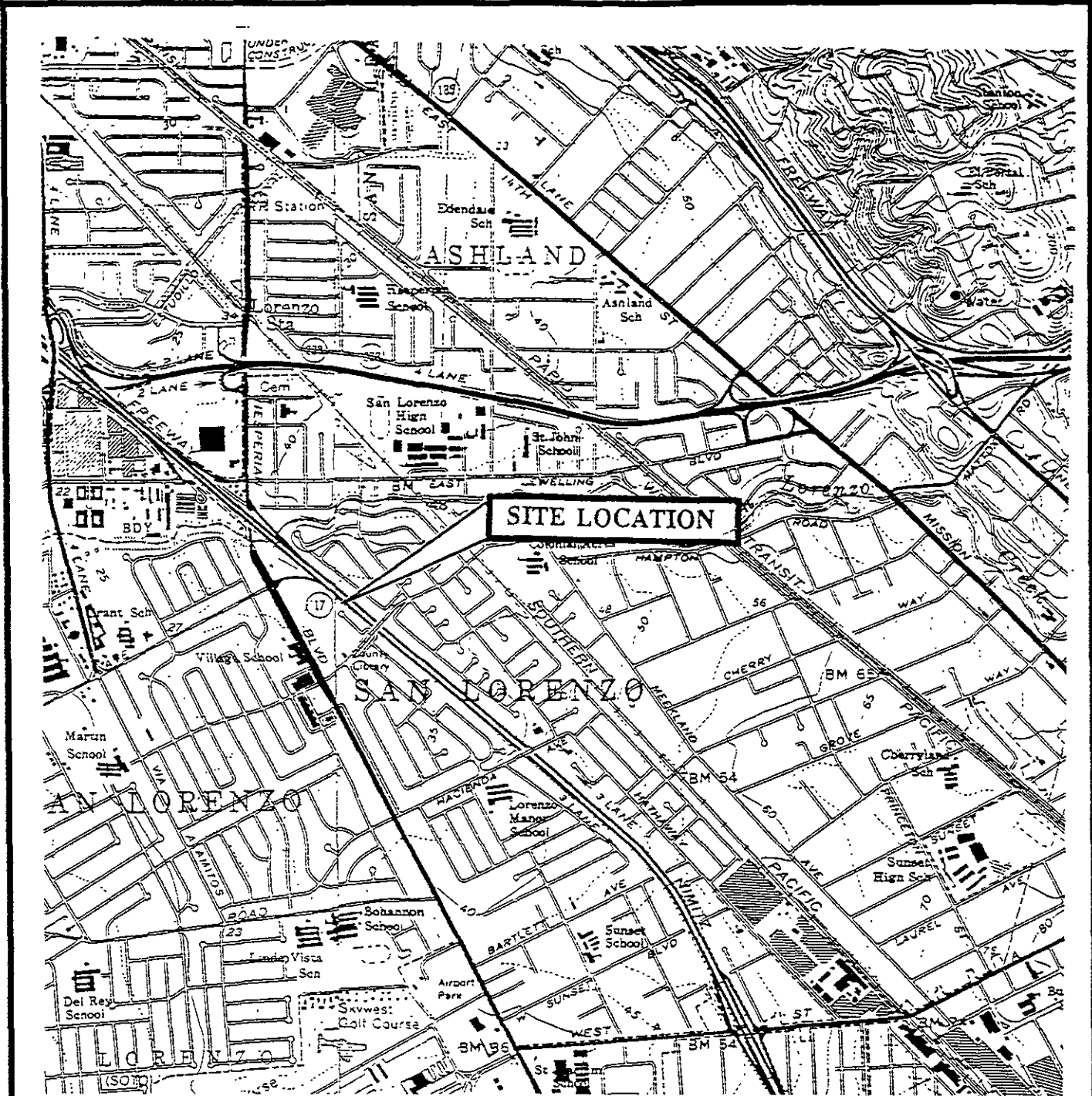
Note: For the 2/12/92 and 5/4/92 sampling rounds, the following analytes were not detected at concentrations exceeding the method detection limits, in the water samples collected from MW5:

- Total high boiling point petroleum hydrocarbons (TPHd)
- Total oil and grease (TOG)
- Halogenated volatile organics (HVO)
- Cadmium, chromium, nickel, zinc, and organic lead (Cd, Cr, Ni, and Zn)
- Organic Lead (O-Pb)

Note: For the 8/20/92 sampling round, the above listed analytes (with the exception of Zn at 0.012 ppm) and the below listed analytes were not detected at concentrations exceeding the method detection limits, in the water sample collected from MW-5:

- Semi-volatile organics (SVO)
- Polychlorinated biphenyls (PCB)

# FIGURES



North



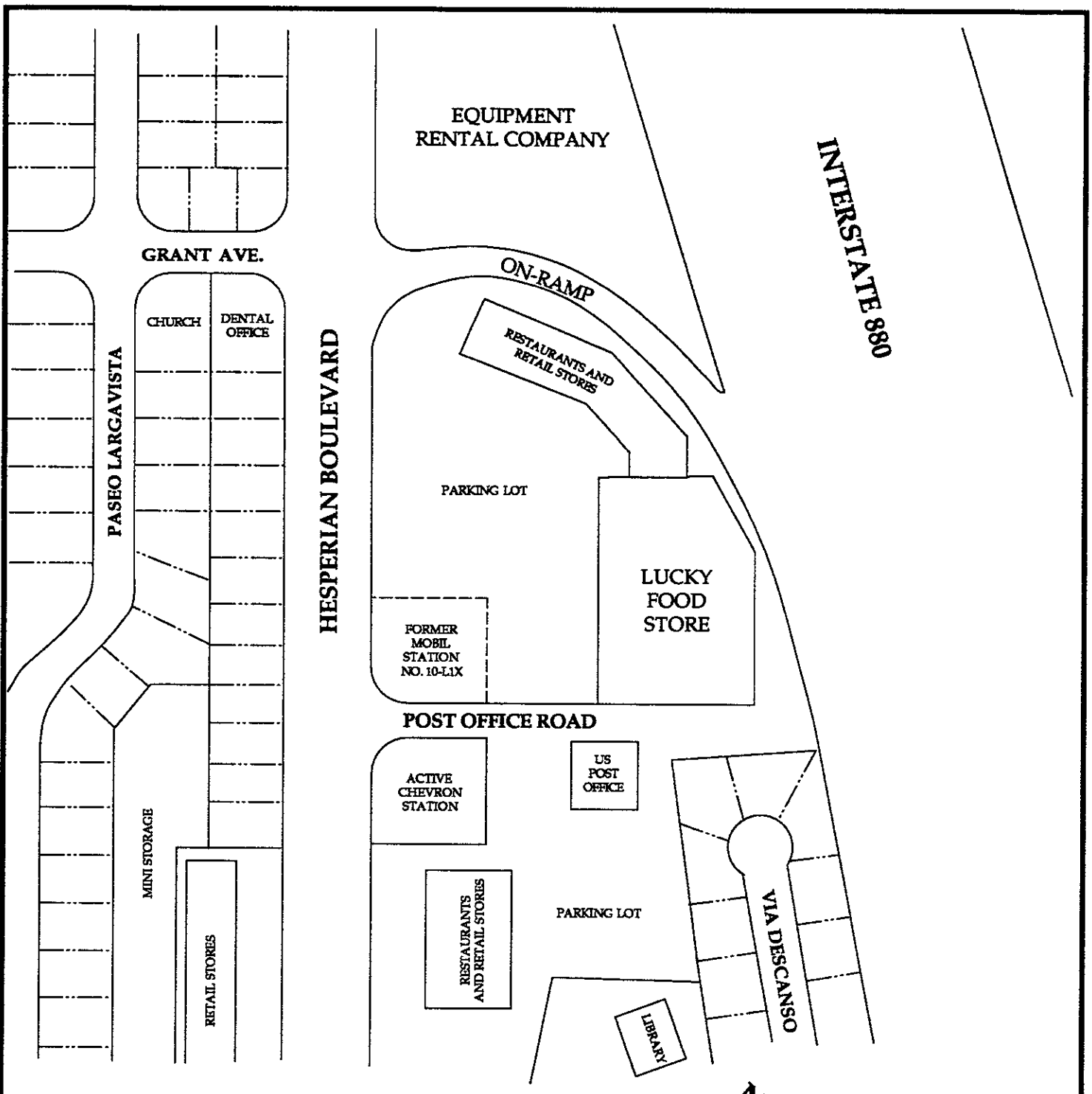
Scale 1:24,000

Source: U.S. Geological Survey  
 7.5 Minute Quadrangle Maps  
 Entitled: "San Leandro, California"  
 and "Hayward, California"  
 Revised 1980

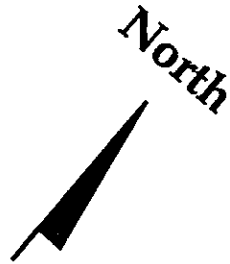
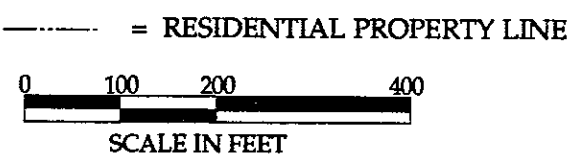
**HYDR**  
**ENVIRONMENTAL**  
**TECHNOLOGIES, INC.**

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

Job No.  
 8-019  
 Figure  
 1



**EXPLANATION**



HYDR  
 ENVIR NMENTAL  
 TECHN LOGIES, INC.

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

Job No.  
 8-019  
 Figure  
 2

North

HESPERIAN BLVD.

FORMER PUMP ISLANDS

MW-6

PARKING LOT

FORMER STATION BUILDING

PARKING LOT

MW-5

FORMER WASTE OIL TANK LOCATION

MW-2

FORMER UST FIELD

B-7

MW-7

POST OFFICE ST. (PRIVATE ROAD)

**EXPLANATION**

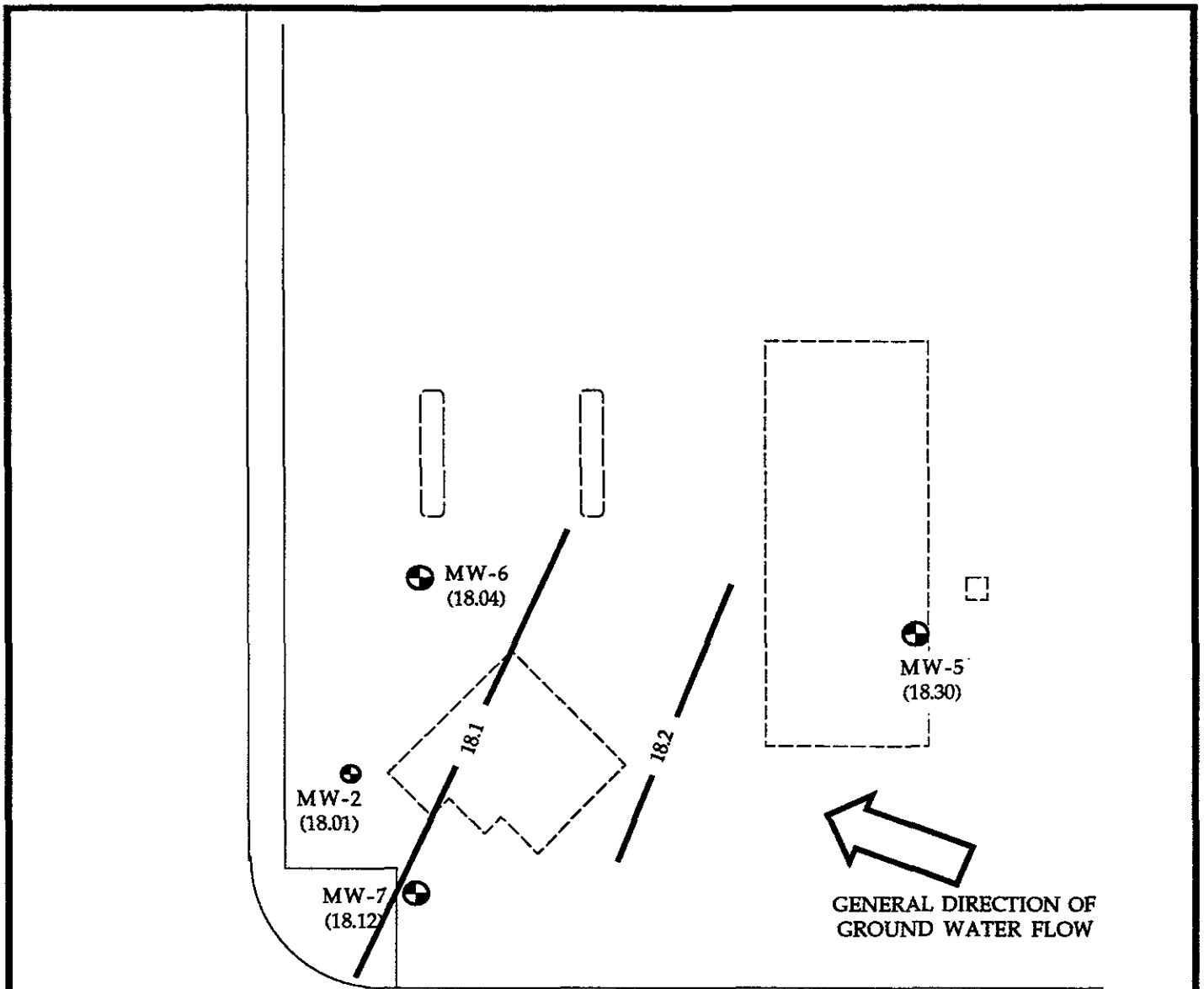
- ⊕ MW-4 = FOUR-INCH WELL INSTALLED BY HETI
- ⊙ MW-2 = TWO-INCH WELL INSTALLED BY KEI
- B-7 = SOIL BORING BY HETI



**HYDR**  
**ENVIRONMENTAL**  
**TECHNOLOGIES, INC.**

**SITE PLAN**  
 Former Mobil Station No. 10-L1X  
 15884 Hesperian Blvd.  
 San Lorenzo, California

Job No.  
 8-019  
 Figure  
 3



**EXPLANATION**

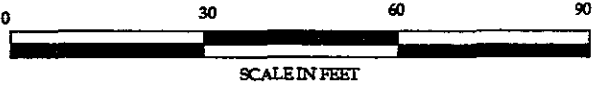
⊕ MW-4 = FOUR-INCH WELL INSTALLED BY HETI

⊙ MW-2 = TWO-INCH WELL INSTALLED BY KEI

(18.01) = ELEVATION OF GROUND WATER - IN FEET  
BASED ON PROJECT DATUM

18.2 = ESTIMATED GROUND WATER ELEVATION CONTOUR  
IN FEET - BASED ON PROJECT DATUM

BASED ON DATA COLLECTED 8/20/92

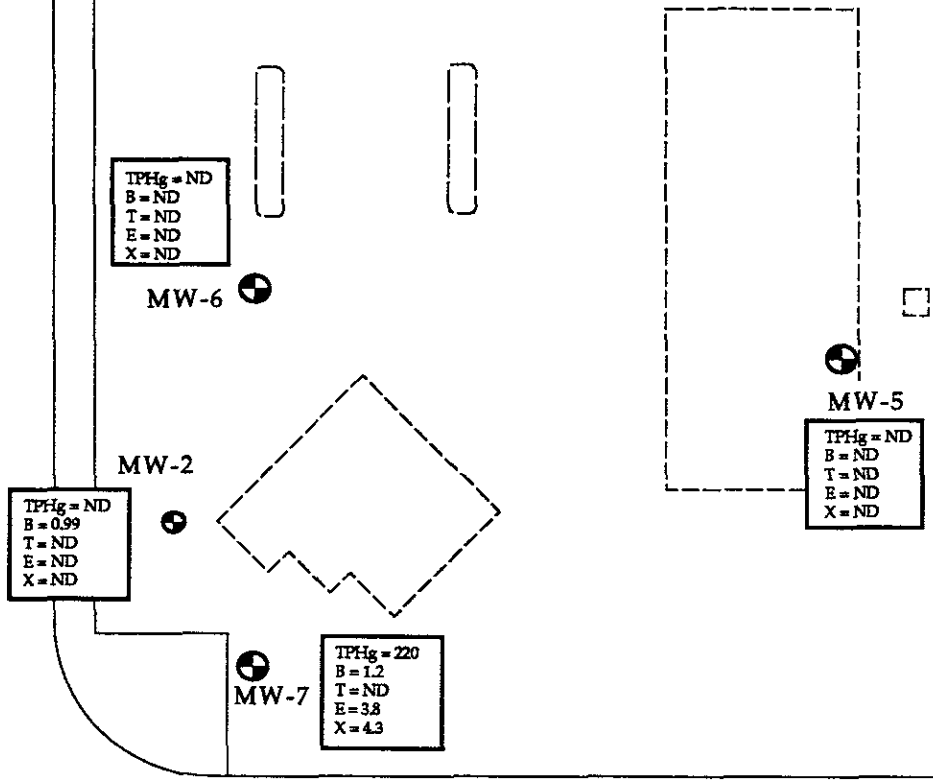


**HYDR**  
**ENVIRONMENTAL**  
**TECHNOLOGIES, INC.**

**POTENTIOMETRIC SURFACE MAP**  
Former Mobil Station No. 10-L1X  
15884 Hesperian Blvd.  
San Lorenzo, California

Job No.  
**8-019**  
Figure  
**4**

SAMPLES COLLECTED 8/20/92



**EXPLANATION**

⊕ MW-5 = FOUR-INCH WELL INSTALLED BY HETI

⊙ MW-2 = EXISTING TWO-INCH WELL INSTALLED BY KEI

TPHg = ND
B = ND
T = ND
E = ND
X = ND

 = CONCENTRATION OF DISSOLVED HYDROCARBONS AS GASOLINE (TPHg), BENZENE (B), TOLUENE (T), ETHYLBENZENE (E), AND TOTAL XYLENES (X), DETECTED IN GROUND WATER SAMPLE - IN PPB

BASED ON DATA COLLECTED 8/20/92



**HYDR**  
**ENVIRONMENTAL**  
**TECHNOLOGIES, INC.**

**DISSOLVED TPHg AND BTEX**  
**DISTRIBUTION MAP**  
Former Mobil Station No. 10-L1X  
15884 Hesperian Blvd.  
San Lorenzo, California

Job No.  
8-019  
Figure  
**5**



APPENDIX A



PURGED/SAMPLED BY: BB

DATE: 8/19/92

GAUGING DATA:

Depth to bottom: 27.30 ft.

Depth to water: 13.80 ft.

Saturated Thickness: 13.5 ft.

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

Well casing volume 2.16 gallons

# volumes to purge x 3 vols.

\*Total volume to purge = 6.5 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
1030	0	—	—	—
1032	2	74.3	1.50	7.85
1033	4	73.3	1.49	7.79
1034	6	72.4	1.40	7.71
1035	7	72.2	1.36	7.65

Color: Tan

Turbidity: Moderate

Recharge: Good

SPP 8 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / \_\_\_\_\_

Sample for: (circle)

- TPH<sub>4</sub>/BTEX
  - METALS
  - TOG
  - 8010
  - TPH<sub>d</sub>
  - O-Pb
  - TEL
  - 8020
  - TPH<sub>mo</sub>
  - Total Pb
  - EDB
  - 8240
  - 601
  - 602
  - Nitrates
  - 8260
  - 8270
- Other: \_\_\_\_\_



MONITORING WELL PURGE/SAMPLE SHEET  
 WELL # MW-2  
 LOCATION MOBILE 10-LIX

JOB NO.  
8-09

PURGED/SAMPLED BY: BL

DATE: 8/19/92

GAUGING DATA:

Depth to bottom: 22.45 ft.

Depth to water: 14.62 ft.

Saturated Thickness: 7.83 ft.

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

Well casing volume 5.08 gallons

# volumes to purge x 3 vols.

\*Total volume to purge = 15.3 gallons

\* unless chemical parameters stabilize earlier

PURGING DATA:

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

dry →

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
1045	0	—	—	—
1047	5	75.8	1.43	7.97
1049	9	74.2	1.45	7.81

Color: Light tan

Turbidity: Moderate

Recharge: Poor

SPP Ø ft.

SAMPLING DATA:

Sampling method: Dedicated bailer

Sample for: (circle)

- PPHg/BTEX
- METALS
- TOC
- 6010
- TPHg
- O-Pb
- TEL 8020
- TPH no Total Pb EDB 8240
- 601 602 Nitrates 8260  8270
- Other: PCIS



MONITORING WELL PURGE/SAMPLE SHEET

WELL # MW-5

LOCATION MOBILE 10-LIX

JOB NO.

8-019

PURGED/SAMPLED BY: BG

DATE: 8/19/92

GAUGING DATA:

Depth to bottom: 22.50 ft.

Depth to water: 14.64 ft.

Saturated Thickness: 7.86 ft.

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

Well casing volume 5.11 gallons

# volumes to purge x 3 vols.

\*Total volume to purge = 15.4 gallons

\* unless chemical parameters stabilize earlier

PURGING DATA:

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

dry →

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
1055	0	←	←	←
1056	5	75.4	1.40	7.86
1058	8	73.9	1.35	7.73

Color: Tan

Turbidity: Moderate

Recharge: Poor

SPP 0 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / \_\_\_\_\_

Sample for: (circle)

- TPH<sub>g</sub>/BTEX METALS TOC 8010
- TPH<sub>d</sub> O-Pb TEL 8020
- TPH<sub>mo</sub> Total Pb EDB 8240
- 601 602 Nitrates 8260 8270
- Other: \_\_\_\_\_



MONITORING WELL PURGE/SAMPLE SHEET  
WELL # MW-6  
LOCATION MOBILE 10-21X

JOB NO.  
8-019

PURGED/SAMPLED BY: BB

DATE: 8/19/92

GAUGING DATA:

Depth to bottom: 23.90 ft.  
Depth to water: 14.96 ft.  
Saturated Thickness: 8.94 ft.

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

Well casing volume 5.81 gallons  
# volumes to purge x 3 vols.  
\*Total volume to purge = 17.5 gallons  
\* unless chemical parameters stabilize earlier

PURGING DATA:

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

dry →

Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pH
1100	0	—	—	—
1104	5	74.0	1.30	11.34
1107	7	72.0	1.06	11.42

Color: Tan Turbidity: Moderate  
Recharge: Poor SPP 8 ft.

SAMPLING DATA:

Sampling method: Dedicated bailer / \_\_\_\_\_

Sample for: (circle)

- IPHg/BTEX METALS TOG 8010
- TPHd O-Pb TEL 8020
- IPH.mro Total Pb ED8 8240
- 601 602 Nitrates 8250 8270
- Other: \_\_\_\_\_



MONITORING WELL PURGE/SAMPLE SHEET  
WELL # MW-7  
LOCATION MOBILE 10-LIK

JOB NO.  
8-019

APPENDIX B



# SEQUOIA ANALYTICAL

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

RECEIVED SEP - 2 1992

- 8-019  
- Analytical

Hydro Environmental

Client Project ID: 10-LIX, 8-019, Mobil

Sampled: Aug 20, 1992

2363 Mariner Square Dr., Bldg. 3, Suite 243

Sample Matrix: Water

Received: Aug 21, 1992

Alameda, CA 94501

Analysis Method: EPA 5030/8015/8020

Reported: Aug 31, 1992

Attention: Brian Gwinn

First Sample #: 208-3773

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 208-3773 MW-2	Sample I.D. 208-3774 MW-5	Sample I.D. 208-3775 MW-6	Sample I.D. 208-3776 MW-7	Sample I.D.	Sample I.D.
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	220		
Benzene	0.50	0.99	N.D.	N.D.	1.2		
Toluene	0.50	N.D.	N.D.	N.D.	N.D.		
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	3.8		
Total Xylenes	0.50	N.D.	N.D.	N.D.	4.3		
Chromatogram Pattern:		C4-C12 Non-Gas Mixture	--	--	Non-Gas Mixture C4-C12		

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Analyzed:	8/24/92	8/24/92	8/24/92	8/24/92
Instrument Identification:	GCHP-3	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	122	97	104	124

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

SEQUOIA ANALYTICAL

Maile A. Springer  
Project Manager





# SEQUOIA ANALYTICAL

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

Hydro Environmental 2363 Mariner Square Dr., Bldg. 3, Suite 243 Alameda, CA 94501 Attention: Brian Gwinn	Client Project ID: 10-LIX, 8-019, Mobil Sample Matrix: Water Analysis Method: EPA 3510/3520/8015 First Sample #: 208-3774	Sampled: Aug 20, 1992 Received: Aug 21, 1992 Reported: Aug 31, 1992
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## TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 208-3774 MW-5	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Extractable Hydrocarbons	50	N.D.					
Chromatogram Pattern:		--					

### Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	8/24/92
Date Analyzed:	8/25/92
Instrument Identification:	GCHP-5

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

SEQUOIA ANALYTICAL

Maile A. Springer  
Project Manager



# SEQUOIA ANALYTICAL

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

Hydro Environmental 2363 Mariner Square Dr., Bldg. 3, Suite 243 Alameda, CA 94501 Attention: Brian Gwinn	Client Project ID: 10-LIX, 8-019, Mobil Matrix Descript: Water Analysis Method: EPA 413.2 (I.R.) First Sample #: 208-3774	Sampled: Aug 20, 1992 Received: Aug 21, 1992 Analyzed: Aug 27, 1992 Reported: Sep 1, 1992
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## TOTAL RECOVERABLE OIL & GREASE


Sample Number	Sample Description	Oil & Grease mg/L (ppm)
208-3774	MW-5	N.D.

Detection Limits:

1.0

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

SEQUOIA ANALYTICAL

  
Arthur G. Burton  
Laboratory Director

2083773.HEN <3>



# SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Hydro Environmental	Client Project ID: 10-LIX, 8-019, Mobil	Sampled: Aug 20, 1992
2363 Mariner Square Dr., Bldg. 3, Suite 243	Sample Descript: Water, MW-5	Received: Aug 21, 1992
Alameda, CA 94501	Analysis Method: EPA 5030/8010	Analyzed: Aug 27, 1992
Attention: Brian Gwinn	Lab Number: 208-3774	Reported: Aug 31, 1992

## HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	0.50	N.D.
Bromoform.....	0.50	N.D.
Bromomethane.....	1.0	N.D.
Carbon tetrachloride.....	0.50	N.D.
Chlorobenzene.....	0.50	N.D.
Chloroethane.....	1.0	N.D.
2-Chloroethylvinyl ether.....	1.0	N.D.
Chloroform.....	0.50	N.D.
Chloromethane.....	1.0	N.D.
Dibromochloromethane.....	0.50	N.D.
1,3-Dichlorobenzene.....	0.50	N.D.
1,4-Dichlorobenzene.....	0.50	N.D.
1,2-Dichlorobenzene.....	0.50	N.D.
1,1-Dichloroethane.....	0.50	N.D.
1,2-Dichloroethane.....	0.50	N.D.
1,1-Dichloroethene.....	0.50	N.D.
cis-1,2-Dichloroethene.....	0.50	N.D.
trans-1,2-Dichloroethene.....	0.50	N.D.
1,2-Dichloropropane.....	0.50	N.D.
cis-1,3-Dichloropropene.....	0.50	N.D.
trans-1,3-Dichloropropene.....	0.50	N.D.
Methylene chloride.....	5.0	N.D.
1,1,2,2-Tetrachloroethane.....	0.50	N.D.
Tetrachloroethene.....	0.50	N.D.
1,1,1-Trichloroethane.....	0.50	N.D.
1,1,2-Trichloroethane.....	0.50	N.D.
Trichloroethene.....	0.50	N.D.
Trichlorofluoromethane.....	0.50	N.D.
Vinyl chloride.....	1.0	N.D.

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

SEQUOIA ANALYTICAL

  
Maile A. Springer  
Project Manager



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Hydro Environmental

2363 Mariner Square Dr., Bldg. 3, Suite 243  
Alameda, CA 94501

Attention: Brian Gwinn

Client Project ID: 10-LIX, 8-019, Mobil

Sample Descript: Water, MW-5

Analysis Method: EPA 8080

Lab Number: 208-3774

Sampled: Aug 20, 1992

Received: Aug 21, 1992

Extracted: Aug 25, 1992

Analyzed: Aug 26, 1992

Reported: Sep 1, 1992

## POLYCHLORINATED BIPHENYLS (EPA 8080)

Analyte	Detection Limit µg/L	Sample Results µg/L
PCB 1016.....	0.50	N.D.
PCB 1221.....	2.0	N.D.
PCB 1232.....	0.50	N.D.
PCB 1242.....	0.50	N.D.
PCB 1248.....	0.50	N.D.
PCB 1254.....	0.50	N.D.
PCB 1260.....	0.50	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer  
Project Manager



# SEQUOIA ANALYTICAL

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Hydro Environmental	Client Project ID: 10-LIX, 8-019, Mobil	Sampled: Aug 20, 1992
2363 Mariner Square Dr., Bldg. 3, Suite 243	Sample Descript: Water, MW-5	Received: Aug 21, 1992
Alameda, CA 94501	Analysis Method: EPA 8270	Extracted: Aug 24, 1992
Attention: Brian Gwinn	Lab Number: 208-3774	Analyzed: Aug 26, 1992
		Reported: Aug 31, 1992

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene.....	2.0	N.D.
Acenaphthylene.....	2.0	N.D.
Aniline.....	2.0	N.D.
Anthracene.....	2.0	N.D.
Benzidine.....	50	N.D.
Benzoic Acid.....	10	N.D.
Benzo(a)anthracene.....	2.0	N.D.
Benzo(b)fluoranthene.....	2.0	N.D.
Benzo(k)fluoranthene.....	2.0	N.D.
Benzo(g,h,i)perylene.....	2.0	N.D.
Benzo(a)pyrene.....	2.0	N.D.
Benzyl alcohol.....	2.0	N.D.
Bis(2-chloroethoxy)methane.....	2.0	N.D.
Bis(2-chloroethyl)ether.....	2.0	N.D.
Bis(2-chloroisopropyl)ether.....	2.0	N.D.
Bis(2-ethylhexyl)phthalate.....	10	N.D.
4-Bromophenyl phenyl ether.....	2.0	N.D.
Butyl benzyl phthalate.....	2.0	N.D.
4-Chloroaniline.....	2.0	N.D.
2-Chloronaphthalene.....	2.0	N.D.
4-Chloro-3-methylphenol.....	2.0	N.D.
2-Chlorophenol.....	2.0	N.D.
4-Chlorophenyl phenyl ether.....	2.0	N.D.
Chrysene.....	2.0	N.D.
Dibenz(a,h)anthracene.....	2.0	N.D.
Dibenzofuran.....	2.0	N.D.
Di-N-butyl phthalate.....	10	N.D.
1,3-Dichlorobenzene.....	2.0	N.D.
1,4-Dichlorobenzene.....	2.0	N.D.
1,2-Dichlorobenzene.....	2.0	N.D.
3,3-Dichlorobenzidine.....	10	N.D.
2,4-Dichlorophenol.....	2.0	N.D.
Diethyl phthalate.....	2.0	N.D.
2,4-Dimethylphenol.....	2.0	N.D.
Dimethyl phthalate.....	2.0	N.D.
4,6-Dinitro-2-methylphenol.....	10	N.D.
2,4-Dinitrophenol.....	10	N.D.



# SEQUOIA ANALYTICAL

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Hydro Environmental	Client Project ID: 10-LIX, 8-019, Mobil	Sampled: Aug 20, 1992
2363 Mariner Square Dr., Bldg. 3, S	Sample Descript: Water, MW-5	Received: Aug 21, 1992
Alameda, CA 94501	Analysis Method: EPA 8270	Extracted: Aug 24, 1992
Attention: Brian Gwinn	Lab Number: 208-3774	Analyzed: Aug 26, 1992
		Reported: Aug 31, 1992

## SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/L	Sample Results µg/L
2,4-Dinitrotoluene.....	2.0	N.D.
2,6-Dinitrotoluene.....	2.0	N.D.
Di-N-octyl phthalate.....	2.0	N.D.
Fluoranthene.....	2.0	N.D.
Fluorene.....	2.0	N.D.
Hexachlorobenzene.....	2.0	N.D.
Hexachlorobutadiene.....	2.0	N.D.
Hexachlorocyclopentadiene.....	2.0	N.D.
Hexachloroethane.....	2.0	N.D.
Indeno(1,2,3-cd)pyrene.....	2.0	N.D.
isophorone.....	2.0	N.D.
2-Methylnaphthalene.....	2.0	N.D.
2-Methylphenol.....	2.0	N.D.
4-Methylphenol.....	2.0	N.D.
Naphthalene.....	2.0	N.D.
2-Nitroaniline.....	10	N.D.
3-Nitroaniline.....	10	N.D.
4-Nitroaniline.....	10	N.D.
Nitrobenzene.....	2.0	N.D.
2-Nitrophenol.....	2.0	N.D.
4-Nitrophenol.....	10	N.D.
N-Nitrosodiphenylamine.....	2.0	N.D.
N-Nitroso-di-N-propylamine.....	2.0	N.D.
Pentachlorophenol.....	10	N.D.
Phenanthrene.....	2.0	N.D.
Phenol.....	2.0	N.D.
Pyrene.....	2.0	N.D.
1,2,4-Trichlorobenzene.....	2.0	N.D.
2,4,5-Trichlorophenol.....	10	N.D.
2,4,6-Trichlorophenol.....	2.0	N.D.

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

SEQUOIA ANALYTICAL

Maile A. Springer  
Project Manager



# SEQUOIA ANALYTICAL

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

Hydro Environmental 2363 Mariner Square Dr., Bldg. 3, Suite 243 Alameda, CA 94501 Attention: Brian Gwinn	Client Project ID: 10-LIX, 8-019, Mobil Sample Descript: Water Analysis Method: California LUFT Manual, 12/87 First Sample #: 208-3774	Sampled: Aug 20, 1992 Received: Aug 21, 1992 Analyzed: Aug 24, 1992 Reported: Aug 31, 1992
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## ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/L
208-3774	MW-5	N.D.

Detection Limits: 0.050

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

SEQUOIA ANALYTICAL

  
Maile A. Springer  
Project Manager

2083773.HEN <8>



# SEQUOIA ANALYTICAL

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Hydro Environmental

Client Project ID: 10-LIX, 8-019, Mobil

Sampled: Aug 20, 1992

2363 Mariner Square Dr., Bldg. 3, Suite 243

Sample Descript: Water, MW-4

Received: Aug 21, 1992

Alameda, CA 94501

Attention: Brian Gwinn

Lab Number: 208-3774

Analyzed: Aug 26, 1992

Reported: Aug 31, 1992

## LABORATORY ANALYSIS

Analyte	Detection Limit mg/L	Sample Results mg/L
Cadmium.....	0.010	N.D.
Chromium.....	0.010	N.D.
Nickel.....	0.050	N.D.
Zinc.....	0.010	0.012

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

SEQUOIA ANALYTICAL

Please Note:

\* - Sample filtered prior to analyses.

  
Maile A. Springer  
Project Manager





# SEQUOIA ANALYTICAL

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Hydro Environmental  
2363 Mariner Square Dr., Bldg. 3, Suite 243  
Alameda, CA 94501  
Attention: Brian Gwinn

Client Project ID: 10-LIX, 8-019, Mobil

QC Sample Group: 208-3773

Reported: Aug 31, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	M.Nipp	M.Nipp	M.Nipp	M.Nipp
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Aug 24, 1992	Aug 24, 1992	Aug 24, 1992	Aug 24, 1992
QC Sample #:	GBLK082492	GBLK082492	GBLK082492	GBLK082492
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	9.8	9.4	9.9	29
Matrix Spike % Recovery:	98	94	99	97
Conc. Matrix Spike Dup.:	9.5	9.5	9.5	29
Matrix Spike Duplicate % Recovery:	95	95	95	97
Relative % Difference:	3.1	1.1	4.1	0.0

SEQUOIA ANALYTICAL

Maile A. Springer  
Project Manager

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



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Hydro Environmental

Client Project ID: 10-LIX, 8-019, Mobil

2363 Mariner Square Dr., Bldg. 3, Suite 243

Alameda, CA 94501

Attention: Brian Gwinn

QC Sample Group: 2083774 - 76

Reported: Aug 31, 1992

## QUALITY CONTROL DATA REPORT

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

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	A.MirafTAB	A.MirafTAB	A.MirafTAB	A.MirafTAB
Reporting Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Aug 24, 1992	Aug 24, 1992	Aug 24, 1992	Aug 24, 1992
QC Sample #:	GBLK082492	GBLK082492	GBLK082492	GBLK082492

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 32

Matrix Spike Duplicate % Recovery: 100 100 100 107

Relative % Difference: 0.0 0.0 0.0 6.4

SEQUOIA ANALYTICAL

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

Maile A. Springer  
Project Manager



# SEQUOIA ANALYTICAL

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Hydro Environmental  
2363 Mariner Square Dr., Bldg. 3, Suite 243  
Alameda, CA 94501  
Attention: Brian Gwinn

Client Project ID: 10-LIX, 8-019, Mobil

QC Sample Group: 208-3774

Reported: Aug 31, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Diesel	Ttl. Oil & Grease	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	AR 1260
Method:	EPA 8015	EPA 413.2	EPA 8010	EPA 8010	EPA 8010	EPA 8080
Analyst:	M.Tran	P.Penner	V.Nunzir	V.Nunzir	V.Nunzir	D.Dreblow
Reporting Units:	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Date Analyzed:	Aug 25, 1992	Aug 27, 1992	Aug 27, 1992	Aug 27, 1992	Aug 27, 1992	Aug 26, 1992
QC Sample #:	DBLK082492	Blank	VBLK082792	VBLK082792	VBLK082792	PBLK082592
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	300	40	20	20	20	500
Conc. Matrix Spike:	210	35	27	14	18	450
Matrix Spike % Recovery:	70	88	135	70	90	90
Conc. Matrix Spike Dup.:	180	35	27	14	18	500
Matrix Spike Duplicate % Recovery:	60	88	135	70	90	100
Relative % Difference:	15	0.0	0.0	0.0	0.0	11

SEQUOIA ANALYTICAL

Maile A. Springer  
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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Hydro Environmental	Client Project ID: 10-LIX, 8-019, Mobil	Q.C. Sample Dates
2363 Mariner Square Dr., Bldg. 3, Suite 243	Method: EPA 8270	Extracted: Aug 24, 1992
Alameda, CA 94501	Analyst(s): N.Injeikian	Analyzed: Aug 27, 1992
Attention: Brian Gwinn	QC Sample #: CBLK082492	Reported: Aug 31, 1992

## QUALITY CONTROL DATA REPORT

Analyte	Sample Conc.	Spike Conc. Added	Conc. Matrix Spike	Matrix Spike % Recovery	Conc. Matrix Spike Duplicate	Matrix Spike Duplicate % Recovery	Relative % Difference
Phenol	N.D.	100	85	85	81	85	4.8
2-Chlorophenol	N.D.	100	86	86	85	85	1.2
1,4-Dichloro-benzene	N.D.	50	38	76	40	80	5.1
N-Nitroso-Di-N-propylamine	N.D.	50	46	92	44	88	4.4
1,2,4-Trichloro-benzene	N.D.	50	39	78	41	82	5.0
4-Chloro-3-Methylphenol	N.D.	100	76	76	92	92	19
Acenaphthene	N.D.	50	41	82	42	84	2.4
4-Nitrophenol	N.D.	100	97	97	93	93	4.2
2,4-Dinitro-toluene	N.D.	50	41	82	49	98	18
Pentachloro-phenol	N.D.	100	81	81	78	78	3.8
Pyrene	N.D.	50	41	82	47	94	14

SEQUOIA ANALYTICAL

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

Maile A. Springer  
Project Manager



# SEQUOIA ANALYTICAL

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

Hydro Environmental  
2363 Mariner Square Dr., Bldg. 3, Suite 243  
Alameda, CA 94501  
Attention: Brian Gwinn

Client Project ID: 10-LIX, 8-019, Mobil

QC Sample Group: 208-3774

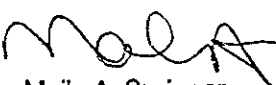
Reported: Aug 31, 1992

## QUALITY CONTROL DATA REPORT

ANALYTE	Organic Lead	Cadmium	Chromium	Nickel	Zinc
Method:	LUFT	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7
Analyst:	S.Chin	C.Medefesser	C.Medefesser	C.Medefesser	C.Medefesser
Reporting Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Date Analyzed:	Aug 24, 1992	Aug 26, 1992	Aug 26, 1992	Aug 26, 1992	Aug 26, 1992
QC Sample #:	208-3774	208-4189	208-4189	208-4189	208-4189
Sample Conc.:	N.D.	0.014	0.012	N.D.	N.D.
Spike Conc. Added:	0.12	1.0	1.0	1.0	10
Conc. Matrix Spike:	0.13	0.81	0.83	0.81	12
Matrix Spike % Recovery:	108	80	82	81	120
Conc. Matrix Spike Dup.:	0.13	0.78	0.79	0.78	12
Matrix Spike Duplicate % Recovery:	108	77	78	78	120
Relative % Difference:	0.0	3.8	4.9	3.8	0.0

SEQUOIA ANALYTICAL

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

  
Maile A. Springer  
Project Manager

# Mobil Chain of Custody SEQUOIA ANALYTICAL

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

Consulting Firm Name: <u>Hydro-Environmental Technologies, Inc.</u>		Site SS #: <u>10-L1X</u>	Phase of Work: <input type="checkbox"/> A. Emrg. Response <input type="checkbox"/> B. Site Assessment <input type="checkbox"/> C. Remediation <input checked="" type="checkbox"/> D. Monitoring <input type="checkbox"/> E. OGC/Claims
Address: <u>2363 Mariner Square Dr., # 243</u>		Mobil Site Address: <u>15884 Hesperian, San Lorenzo CA</u>	
City: <u>Alameda</u>	State: <u>CA</u>	Zip Code: <u>9</u>	
Telephone: <u>510-521-2684</u>		FAX #: <u>521-5078</u>	
Project Contact: <u>Brian Gunn</u>		Sampled by: <u>BG</u>	
		Mobil Engineer: <u>Randy Begier</u>	
		Consultant Project #: <u>8-019</u>	
		Sequoia's Work Order Release #:	

Turnaround Time:  Standard TAT (5 - 10 Working Days)  
 Other \_\_\_\_\_

Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	Analyses Requested										Comments	
					TPH Gas/BTEX	TPH Diesel	TRPH by I.R. EPA 418.1	Oil & Grease EPA 413.2	EPA 8010	C-Pb EPA 1631 (41.6 Ni)	EPA 8270	PLS				
1. MW-2	8/20/92 1130	H <sub>2</sub> O	2	2083773	X											
2. MW-5	↓ 1140	↓	11	74	X	X		X	X	X	X	X	X			
3. MW-6	↓ 1150	↓	2	75	X											
4. MW-7	↓ 1200	↓	2	76	X											
5.																
6.																* Filter prior to analysis
7.																(RE)
8.																
9.																
10.																

Relinquished By: <u>[Signature]</u> (HET)	Date: <u>8/21/92</u>	Time: <u>12:10</u>	Received By: <u>[Signature]</u>	Date: <u>8/21/92</u>	Time: <u>12:10 PM</u>
Relinquished By: <u>[Signature]</u>	Date: <u>8/21/92</u>	Time: <u>2:10 PM</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: <u>Jim [Signature]</u>	Date: <u>8-21-92</u>	Time: <u>2:10 PM</u>