HYDRO ENVIRONMENTAL TECHNOLOGIES, INC.

PHASE II SUBSURFACE INVESTIGATION AND QUARTERLY MONITORING REPORT

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

Prepared for:

MOBIL OIL CORPORATION

3800 West Alameda Avenue, Suite 2000 Burbank, California 91505

Prepared by:

HYDRO-ENVIRONMENTAL TECHNOLOGIES, INC.

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

September 16, 1993

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HYDRO ENVIRONMENTAL TECHNOLOGIES, INC.

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Soil Boring and Well Construction Log MW-8

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1.0 INTRODUCTION

1.1 Purpose and Scope

Mobil Oil Corporation (Mobil) retained Hydro-Environmental Technologies, Inc. (HETI) in June 1993 to conduct a Phase II Subsurface Investigation 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. This phase of the investigation was conducted to further assess the extent of petroleum hydrocarbons in the subsurface soil and ground water at the site.

The tasks performed for this investigation included the following:

- Drilled and logged one soil boring and collected soil samples.
- Installed one 2-inch diameter monitoring well.
- Developed and surveyed the new monitoring well.
- Collected ground water samples from all five wells at the site to be analyzed for dissolved hydrocarbons.

1.2 Site Location, Description and 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 paved over and serves as a 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 in 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. Monitoring well locations are shown on the Site Plan (Figure 3). Results of that phase of the investigation and a detailed project history are presented in HETI's "Phase I Report" dated May 7, 1992.

2.0 FIELD ACTIVITIES

All drilling, well construction and sampling was performed in accordance with recommended guidelines and procedures of the Alameda County Department of Environmental Health (ACDEH) and the Regional Water Quality Control Board (RWQCB). A copy of standard field protocols for drilling, well construction and sampling was submitted as an attachment to the Phase I Report. Copies of Alameda County Flood Control and Water Conservation District (Zone Seven) well installation permits are included in Appendix A.

2.1 Soil Borehole Drilling and Soil Sampling

HETI conducted a safety briefing with the drilling subcontractors prior to the start of drilling. At the end of the briefing, all on-site personnel reviewed and signed the Health and Safety Plan prepared for this work; a copy is included in Appendix A.

On August 10, 1993 one off-site soil boring (MW-8) was drilled by Bayland Drilling of Menlo Park, California using a truck-mounted CME-55 hollow-stem auger drill rig. Boring MW-8 was completed at an approximate depth of 23 feet below grade, across Hesperian Boulevard in the southwest corner of the intersection (Figure 3). Ground water was initially encountered at an approximate depth of 15 feet below grade.

A California-modified split spoon sampler, lined with brass tubes, was used to collect soil samples for laboratory analyses at depths of six and a half feet and eleven feet below grade. The soil samples were labeled, documented on a chain-of-custody form and placed in a cooler for transport to Sequoia Analytical, a state DHS-certified laboratory located in Redwood City, California. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Methods 8015 and 8020 (modified).

Portions of each split spoon soil sample were retained for visual lithologic description by a HETI geologist using the Unified Soil Classification System, and for volatile headspace analysis using a Thermo-Environmental Instruments Model 580B organic vapor meter (OVM). OVM readings for specific soil samples, along with complete sample depths and sample descriptions, are presented on the Soil Boring and Well Construction Log in Appendix A. Organic vapor readings displayed by the OVM are not a quantitative assessment of true hydrocarbon



concentrations in the soil samples, but they are useful for evaluating the relative magnitude of hydrocarbon concentrations. Soil generated during drilling was covered with plastic and stored on-site pending future removal.

2.2 Monitoring Well Installation, Development and Survey

On August 10, 1993 soil boring MW-8 was converted to a 2-inch diameter monitoring well with the same designation. Refer to the Soil Boring and Well Construction Log in Appendix A for well construction details. On August 19, 1993 the new monitoring well was developed by a combination of surging and bailing. Following development, the elevation of the top-of-casing of the monitoring well was surveyed relative to a temporary benchmark. The elevation is shown on Table 2.

2.3 Ground Water Gauging, Sampling and Analysis

All monitoring wells were gauged on August 19, 1993. Separate phase petroleum was not detected in any of the monitoring wells. All five monitoring wells were purged of at least three well volumes or until dry prior to sampling. Purge water was stored on-site in 55 gallon drums. Well purging information is provided on the Purge/Sample Data Sheets in Appendix B.

Following recovery of water levels to at least 80% of their original levels, ground water samples were collected from all the monitoring wells using dedicated polyethylene bailers. Samples were labelled, documented on a chain-of-custody form, and stored in a cooler for transport to Sequoia Analytical. The samples were analyzed for TPHg and BTEX.

3.0 RESULTS OF INVESTIGATION

3.1 Site Stratigraphy

Sediments encountered during drilling consisted primarily of sandy silt, clayey silt and lean clay with sand and silt. Individual sample descriptions are presented on the Soil Boring and Well Construction Log in Appendix A.

3.2 Results of Soil Sample Analysis

Neither TPHg nor BTEX were detected in concentrations exceeding the method detection limits in either soil samples collected from boring MW-8. A summary of analytical results for the samples collected from boring MW-8, as well as results from



HETI's previous borings, are presented in Table 1. Copies of the laboratory reports and chain-of-custody are attached in Appendix C.

3.3 Ground Water Gradient

On August 19, 1993 depth to ground water in the wells ranged between 12.21 to 13.48 feet below grade. Depth to water measurements and calculated ground water elevations in the wells are presented on Table 2. 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 0.0023 ft/ft (0.23%).

3.4 Results of Ground Water Sample Analysis

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 88 ppb and 1.7 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 2. Copies of the laboratory reports and the chain-of-custody forms are attached in Appendix C.



4.0 SUMMARY

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

- One ground water monitoring well (MW-8) was installed off-site on August 10, 1993.
- Soil types encountered during drilling generally consisted of sandy silt, clayey silt and lean clay with sand and silt.
- Neither TPHg nor BTEX were detected in concentrations exceeding the method detection limits in soil samples collected from boring MW-8 at depths of 6.5 feet and 11 feet below grade.
- Stabilized ground water levels measured in all the wells ranged from 12.21 to 13.48 feet below grade. The ground water gradient was calculated to be approximately 0.0023 ft/ft in a general southwesterly direction across 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.
- The results of this phase of the investigation indicate that the downgradient extent of both the adsorbed and dissolved phase hydrocarbon plumes do not extend laterally beyond well MW-8. Clean water samples from wells MW-2 and MW-6 in the northwest portion of the site and from well MW-5 in the northern portion of the site, combined with wells to the southeast on the Chevron property (Alton Geoscience report dated February 28, 1992), serve to delineate the contaminate plume in all other directions. Therefore, no additional subsurface investigation is recommended.

In addition, dissolved hydrocarbon concentrations show a declining trend, most likely attributable to natural biodegradation. Therefore, HETI recommends that quarterly monitoring be continued, but active remediation of the site may not be required.



5.0 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.

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Table 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

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

Boring No.	Date	Depth (feet)	TPHg (ppm)	B (ppm)	T (ppm)	E (ppm)	X (ppm)
MW-5	1/27/91	5 10 15	ND<1.0 ND<1.0 ND<1.0	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005
MW-6	1/27/91	4.5 9.5 14.5	ND<1.0 ND<1.0 ND<1.0	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005
B-7	1/27/91	6 11	ND<1.0 ND<1.0	ND<0.005 ND<0.005	ND<0.005 ND<0.005	ND<0.005 ND<0.005	ND<0.005 ND<0.005
MW-7	1/27/91	6 11 16	ND<1.0 ND<1.0 ND<1.0	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005	ND<0.005 ND<0.005 ND<0.005
MW-8	8/10/93	6.5 11	ND<1.0 ND<1.0	ND<0.005 ND<0.005	ND<0.005 ND<0.005	ND<0.005 ND<0.005	ND<0.005 ND<0.005
Boring No.	Date	Depth (feet)	TOG (ppm)	TPHd (ppm)	O-Pb (ppm)	HVO (ppm)	Cd, Cr, Ni, Zn (ppm)
MW-5	1/27/91	5 10 15	4.2 4.8 4.8	ND<1.0 ND<1.0 ND<1.0	ND<0.05 ND<0.05 ND<0.05	ND<0.005 ND<0.005 ND<0.005	ND<0.5, 31, 38, 58 ND<0.5, 43,43, 58 0.53, 29, 36, 48

Notes:

Boring No.: Soil boring number

Date: Soil sample collection date

Depth: Depth of soil sample

TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 8015

BTEX: Benzene, Toluene, Ethylbenzene and total Xylenes by EPA Method 8020

ppm: Parts per million (milligrams per kilogram)

ND: Not detected in concentrations exceeding the indicated laboratory method detection limit

TPHd: Total petroleum hydrocarbons as diesel by EPA Method 8015

TOG: Total oil and grease by EPA Method 413.2 (I.R.)
O-Pb: Organic lead by California LUFT Manual, 12/87

Cd, Cr,

Ni, Zn: Cadmium, Chromium, Nickel and Zinc by EPA Method 6000 series

HVO: Halogenated volatile organics by EPA Method 8010

Table 2
SUMMARY OF 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
10177-2	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
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
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
arma, ,	8/19/93	32.68	13.06	19.62	NT	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5
/ 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
The party of the Party of	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
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

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Table 2

SUMMARY OF GROUND WATER ELEVATIONS AND ANALYTICAL RESULTS

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

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
	11/27/92	NT	NT	NT	NT	NT	NT	NT	NT	NT
	2/24/93	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/19/93	NT	NT	NT	NT	NT	NT	NT	NT	NT

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 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,

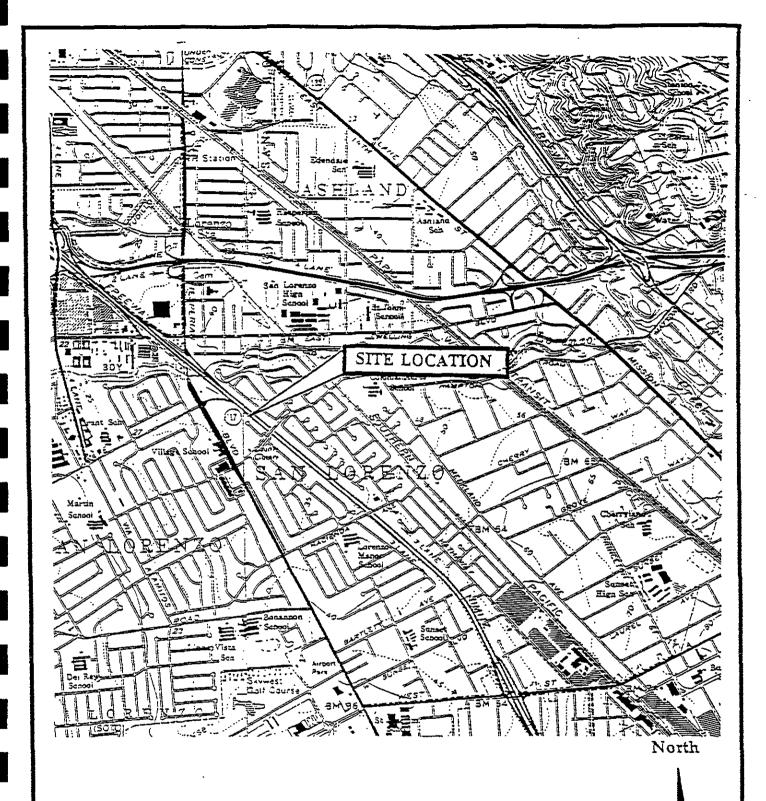
Ni, Zn: Cadmium, chromium, nickel and zinc by EPA Method 6000

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



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

and "Hayward, California"

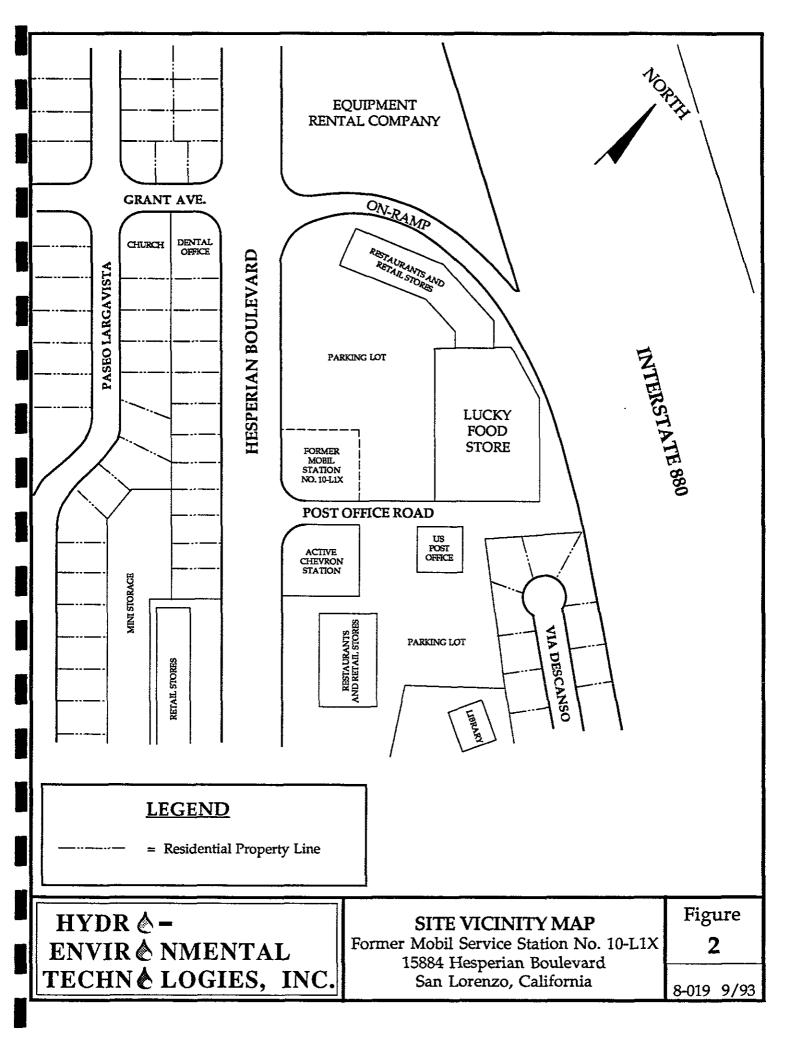
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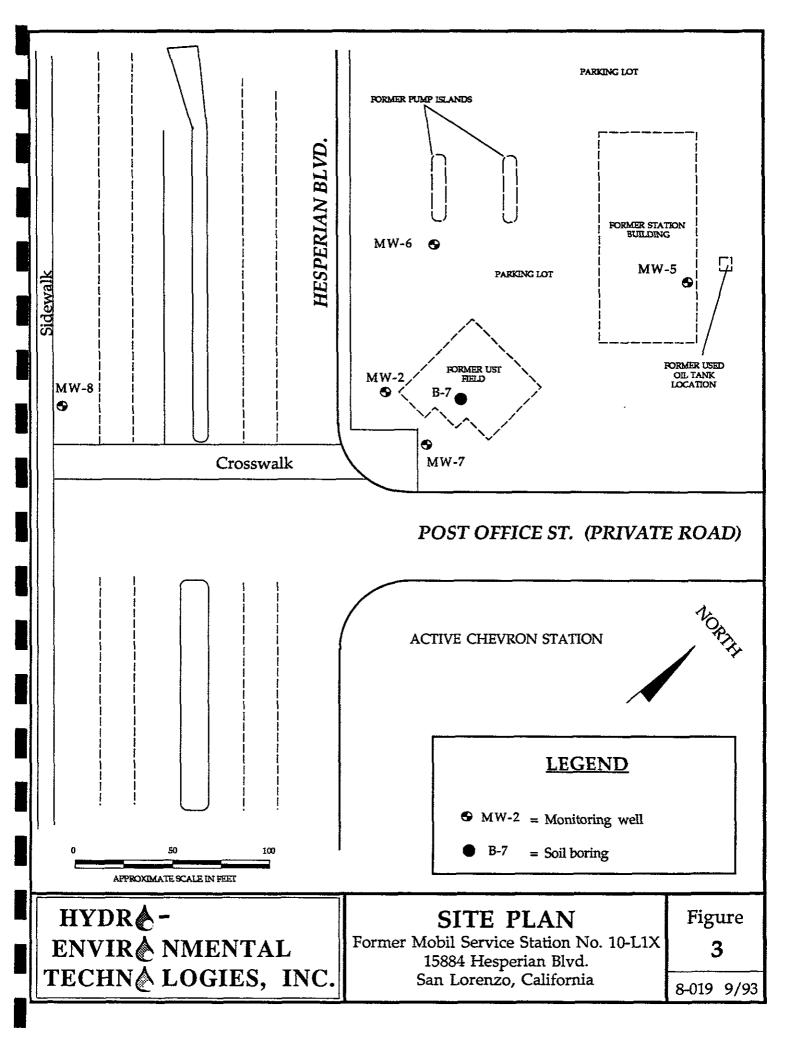
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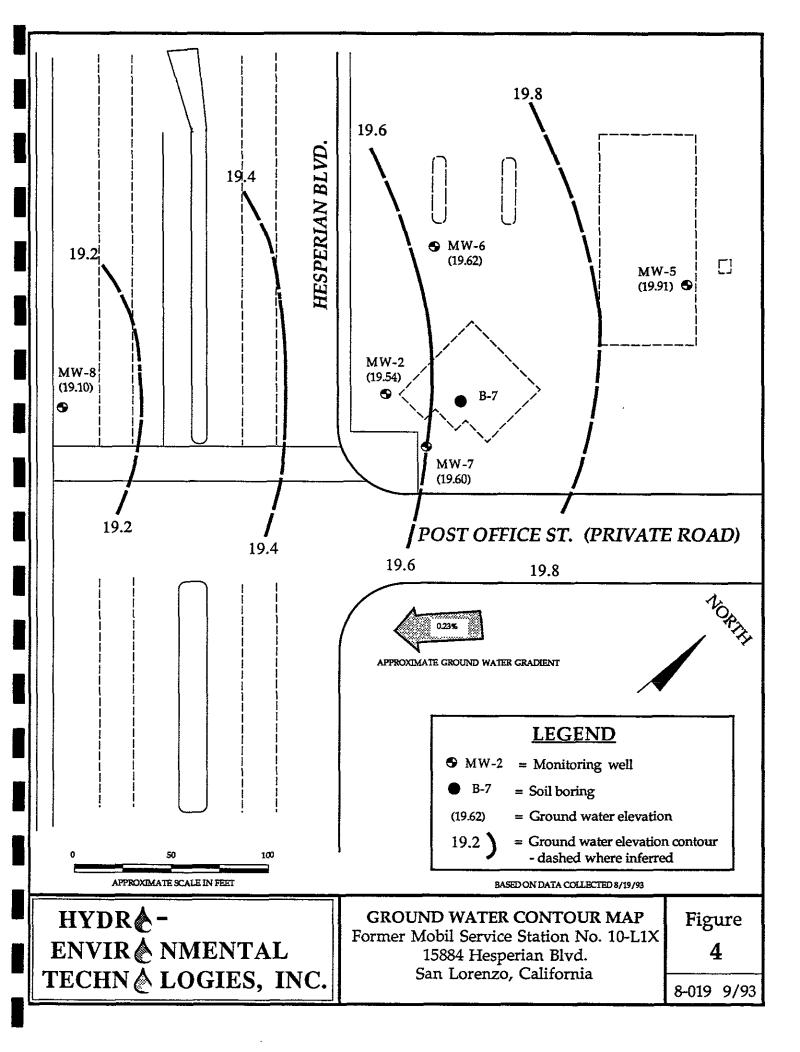
HYDRÔ ENVIRÔNMENTAL TECHNÔLOGIES, INC.

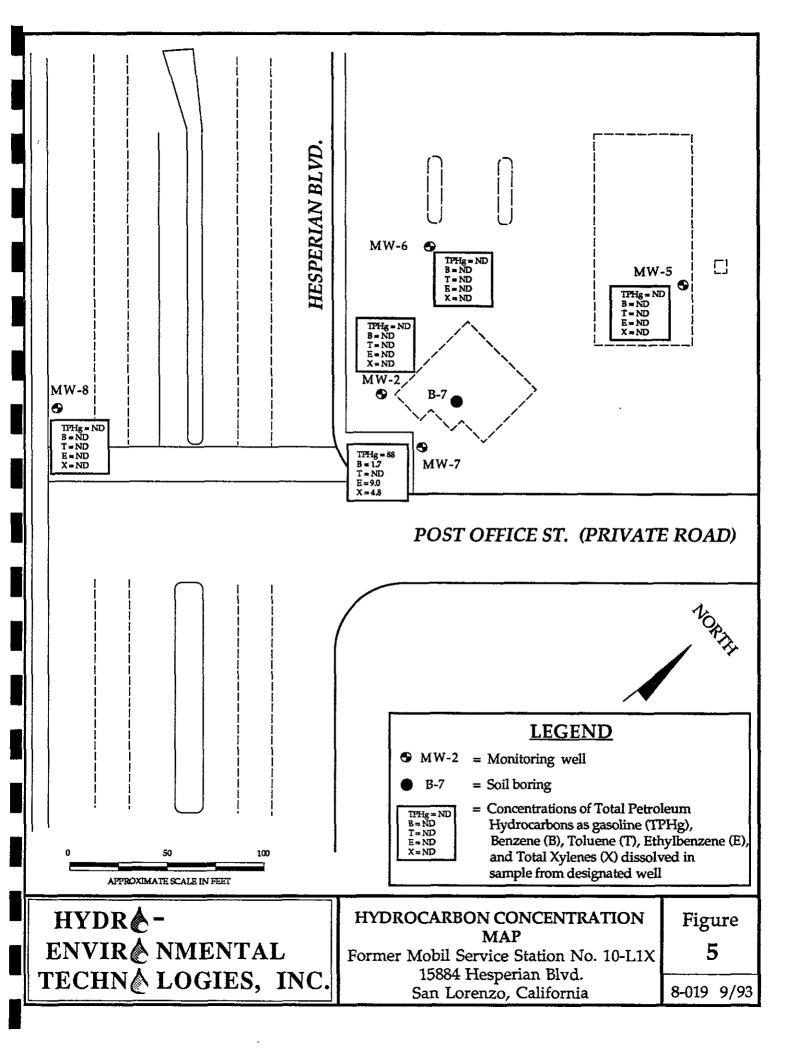
SITE LOCATION MAP

Former Mobil Service Station No. 10-L1X 15884 Hesperian Boulevard San Lorenzo, California Job No. 8-019 Figure 1





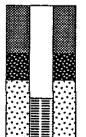




UNIFIED SOIL CLASSIFICATION SYSTEM - VISUAL CLASSIFICATION OF SOILS (ASTM D-2488)

	JOR	GR	OUP	GROUP NAME	DESCRIPTION
DIVI	SIONS		MBOL	GROOF NAME	DESCRIPTION
			G W	Well-graded gravel Well-graded gravel with sand	Well-graded gravels or gravel-sand mixtures, little or no fines.
	GRAVEL AND		GP	Poorly-graded gravel Poorly-graded gravel with sand	Poorly-graded gravels or gravel sand mixture, little or no fines.
	GRAVELLY SOILS		GM	Silty gravel Silty gravel with sand	Silty gravels, gravel-sand-silt mixtures.
COARSE			GC	Clayey gravel Clayey gravel with sand	Clayey graveis, gravel-sand-clay mixtures.
SOILS			s w	Well-graded sand Well-graded sand with gravel	Well-graded sands or gravelly sands, little or no fines.
	SAND AND		SP	Poorly-graded sand Poorly-graded sand with gravel	Poorly-graded sands or gravelly sands, little or no fines.
	SANDY SOILS		SM	Silty sand Silty sand with gravel	Silty sands, sand-silt mixtures.
			SC	Clayey sand Clayey sand with gravel	Clayey sands, sand-clay mixtures.
	SELTS		ML	Silt; Silt with sand; Silt with gravel; Sandy silt; Sandy silt with gravel; Gravelly silt; Gravelly silt with sand	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
FINE	CLAYS		CL	Lean clay; Lean clay with sand; Lean clay with gravel Sandy lean clay; Sandy lean clay with gravel Gravelly lean clay; Gravelly lean clay with sand	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, sity clays, lean clays.
GRAINED	ELASTIC SILTS		МН	Elastic silt; Elastic silt with sand; Elastic silt with gravel Sandy elastic silt; Sandy elastic silt with gravel Gravelly elastic silt; Gravelly elastic silt with sand	Inorganic silts, micaceous or diatamaceous fine sandy or silty soils, elastic silts.
	AND CLAYS		СН	Fat clay: Fat clay with sand; Fat clay with gravel Sandy fat clay: Sandy fat clay with gravel Gravelly fat clay: Gravelly fat clay with sand	Inorganic clays of high plasticity, fat clays.
н	KCHLY	***************************************	OL/OH	Organic soil; Organic soil with sand; Organic soil with gravel Sandy organic soil; Sandy organic soil with gravel Gravelly organic soil; Gravelly organic soil with sand	Organic silts and organic silt-clays of low plasticity. Organic clays of medium to high plasticity.
ORGA	NIC SOILS		Pt	Peat	Peat and other highly organic soils.
BE	DROCK		Br	Bedrock	Igneous, metamorphic and sedimentary rocks

WELL CONSTRUCTION DETAILS





= Cement



= Bentonite



= Filter pack



= PVC Blank



= PVC Screen



Approximate first encountered water level

NOTE: Blow count represents the number of blows of a 140-lb hammer falling 30 inches per blow required to drive a sampler through the last 12 inches of an 18-inch penetration.

No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only.

S = Sampler sank into medium under the weight of the hammer (no blow count) P = Sampler was pushed into medium by drilling rig (no blow count) NR = No Recovery

Approximate stabilized water level



Sample

SANDS & GRAVELS	BLOWS/FT
VERY LOOSE	0 - 5
LOOSE	5 - 12
MED. DENSE	12 - 37
DENSE	37 - 62
VERY DENSE	OVER 62

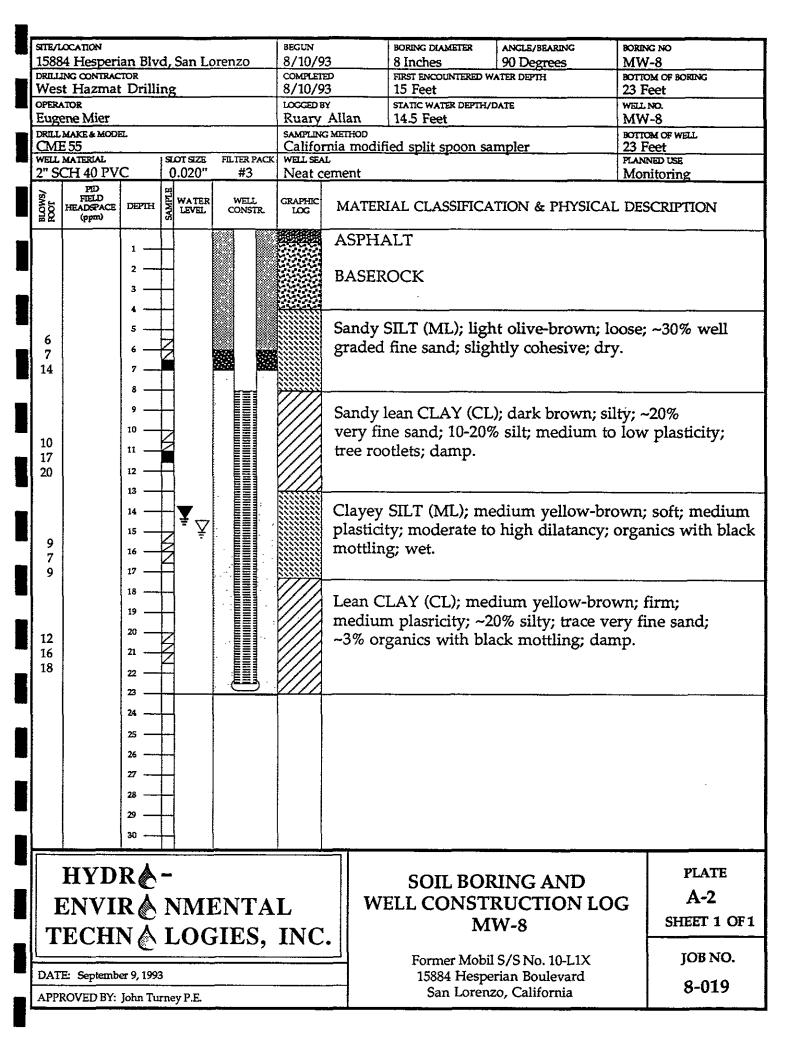
SILTS & CLAYS	BLOWS/FT
SOFT	0 - 5
FIRM	5 - 10
STIFF	10 - 20
VERY STIFF	20 - 40
HARD	OVER 40

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SOIL BORING AND WELL CONSTRUCTION LOG LEGEND

APPENDIX A

PLATE A-1



FIELD CREW HEALTH & SAFETY PLAN PRE-ACTIVITY BRIEFING

Project Location: 15844 Hesperian Blv.	d. San Lorenzo CA
Client: Mobil Oil Corp. Job	#: 8-019
POTENTIAL PHYSICAL HAZARDS AT WORKSITE: Under fires, explosion, electrical shock; flying/falling objects; pinch p exertion or strain; lifting, slipping, tripping, falling; heavy equivorksite; noise; burns from steam or engine parts; heat stress of broken glass, etc.; excavation collapses.	ground/overhead utility lines; oints/caught between objects;
CHEMICAL HAZARDS: Constituents of petroleum fuels, solven vapor, liquid or dissolved form, methane and hydrogen sulfide inhalation, absorbtion, contact and ingestion.	ts, other organic compounds, in gas. Routes of entry include
RESPIRATORY PROTECTIVE EQUIPMENT: None required unl 10 ppm in breathing zone as measured by OVM, then half-fact vapor filter cartridge as required.	ess organic vapor levels exceed e respirator with appropriate
PROTECTIVE CLOTHING AND EQUIPMENT: Level D clothing personnel working at site; steel-toed boots recommended for geometric before. Ear and eye protection as needed. Chemically hazard gloves, Tyvek coveralls, and respirators.	.laaist
SITE SPECIFIC INSTRUCTIONS: Driller will examine all or Drilling equipment will be maintained in safe operating convequirements. Know location of first aid kit, fire extinguisher, an as required. No drilling or working at site without project geological tools safely.	dition and meet state safety
Driller's Signature: Eugue J. Mun	Date: 8-10-93
Helper's Signature: Robert Pass	Date: <u>\$-10-93</u>
Geologist's Signature: Henry Hundenans	Date:_8-10-93
NEAREST HOSPITAL OR CLINIC: Kaiser Perma	Date: 8-10-93 nente Med. Center
HOSPITAL ADDRESS & DIRECTIONS FROM JOB SITT South on Hesperian Blud. (~4 m;). @ Hesperian Blud. & W. Tennyso.	E: Proceed Hospital
EMERGENCY PROCEDURE: Begin appropriate fi Send person for help	rst-aid. p. Call 911.

RECEIVED AUG 9 1993





ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

(510) 484-2600

6 August 1993

Hydro Environmental Technologies, Inc. 2363 Mariner Square Drive, Suite 243 Alameda, CA 94501

Gentlemen:

Enclosed is drilling permit 93431 for a monitoring well construction project at Hesperian Boulevard and Post Street in San Lorenzo for Mobil 0il Corporation.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield

Water Resources Engineer III

Craig a. Mayfield

WH:mm

Enc.

ALAMEDA COUNTY PUBLIC WORKS 199 ELMHURST STREET, HAYWARD, CALIFORNIA 94544 ROAD ENCROACHMENT FERMIT

In accordance with Chapter 1 of Title 5. Streets and Highways, Ordinance to ordinance providing for the protection of Public Highways and rights of wall thereof; and the manner in which the same may be altered, excavated under, thereof; and providing penalties for the violation of the provisions thereof)	obst	Count reof r ructed	y of regul i or	Alameda, ating the encroached	an use
nun: and providing penalties for the Victation of the providing			•	-	

Issued To:

HYDRO-ENVIRONMENTAL

2363 MARINER SQUARE DRIVE

ALAMEDA, CA 94501

521-2684 Phone:

Permit Number: R00-930668

Issue Date: .7/16/1993

7/16/94 Expiration Date:

Permit Issue Receipt: 004769

Assessor Number:

Work Order Number: 85258

Job Site: 'HESPERIAN BL., AT POST

SLZ Township:

in compliance with and subject to all the terms, conditions and restrictions contained in Chapter 1 of Title 5 of said Ordinance Code and as stated below or printed as general or special provisions on any part of or attached to and made a part of this encroachment permit.

THE ABOVE APPLICANT HEREBY REQUESTS PERMISSION TO: INSTALL AND OPERATE FOR THE PERIOD OF ONE YEAR A GROUNDWATER MONITORING WELL IN THE RIGHT-OF-WAY OF HESPERIAN BOULEVARD, OPPOSITE FROM THE FORMER MOBIL STATION LOCATED AT 15884 HESPERIAN,

Attention is directed to the general provisions printed on the attached sheets of this permit and to the special provisions attached hereto and made a part hereof,

ALL MISCELLANEOUS GENERAL PROVISIONS AND THE FOLLOWING SPECIAL PROVISIONS:

C, K, L, Q, R

THE PLANNED EXCAVATION IS WITHIN 500 FEET OF AN EXISTING TRAFFIC SIGNAL. CONTACT ERIC DAYTON AT 670-5537 TWO DAYS PRIOR TO START OF WORK.

THIS PERMIT AUTHORIZES THE INSTALLATION AND OPERATION, FOR THE PERIOD OF ONE YEAR, OF THE SUBJECT WELL; CONTINUED OPERATION WILL REQUIRE THE AMENDMENT OF THIS PERMIT, A SEPARATE ENCROACHMENT PERMIT WILL BE REQUIRED TO DESTROY OR REMOVE THE WELL.

THE SURETY BOND FURNISHED WITH THE APPLICATION FOR THIS PERMIT WILL BE HELD, PENDING THE FINAL RESTORATION OF THE SITE.

THE WELL SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE WESTERLY CURBLINE OF HESPERIAN, BUT SHOULD NOT BE INSTALLED IN THE GUTTER.

This permit does not authorize, and it shall not be construed to authorize any infringement upon the property rights of owners of the fee title of the highway referred to herein. Notice of start of work and other required notices shall be given to the field office, 22341 Redwood Road, Castro Valley Phone (510) 670-5762.

Other Required Permits: ZONE 7 WELL PERMIT #92606

SURETY, Bond Information:

Inspection Deposit: \$

Reviewed By: JKR Applicant Work Completed: - __/_

Inspector: ALAMEDA COUNTY

.. 3

Where no maps or plats are furnished, a sketch of the proposed work, showing location, name of road and other information must be made on a separate sheet, in triplicate.

PURGED/S	PURGED/SAMPLED BY:TR/RA			DATE:	8/19/93					
GAUGING DATA:Depth to bottom: $26.40t$.Depth to water: 12.27 ft.Conversion diam. gals/ft.Well casing volume 2.26 gall # volumes to purge x 3 volsman volume 3.26 gall # volumes to purge x 3 volsman volume 3.26 gall # volumes to purge = 3.26 gall * Total volume to purge = 3.26 gall * unless chemical parameters stabilize earlier										
	PURGING DATA: Purge method: PVC bailer Submersible pump/ Suction lift pump/									
	Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pН					
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	Color:		Turbi SPP_	idity: <u>3 Co</u> dd ft.		<u> </u>				
SAMPLIN	G DATA:				ple for: (circle)					
Sampling	Sampling method: Dedicated baile / TPH mo Total Pb ED8 8240 601 602 Nitrates 8260 8270 Other:									
HYD	R & −			PURGE/SAMPLE SH		Job No.				
■ 1	R NME			$L = M\omega - 2$		8-019 SHEET				
TECH	N & LOG	IES, INC.	LOCATIO	N: Mobil - San L	orenzo	1 of 1				

.

PURGED/S	PURGED/SAMPLED BY:TR/RA			DATE: _	8/19/93				
Depth to bo	GAUGING DATA: Depth to bottom: 22,21 ft. Depth to water: 13.01 ft. 2 in. x0.16 Conversion Well casing volume 5.98 gallons wolume 5.98 gallons wolume 5.98 gallons								
Saturated Thickness:	9.20,	4 in	x 0.65 x 1.44	*Total volume to p	urge = L \$ C	gallons			
PURGING I Purge metho (circle one)		Submersible pum	p/ Suction lift	pump/					
	Time	Volume (gallons)	Temp.	Conductivity (mS/cm)	pН				
	216	0							
		5	24.3	1.519	7,63				
	4	10	21.9	1.536	7.52				
Day	2:24	12	22.4	1.528	7.41				
·									
			····						
					<u> </u>				
	Colonia		T1-1	l idity; slight	1	1 .			
	Color: +		SPP	4		İ			
	Recharge:	1000	5FT_	<u></u>		.*			
SAMPLING	G DATA:			Sam IPHg/BTEX	ple for: (circle)	n o			
Sampling	method: Dedic	ated bailer /		TPHd	O-P5 TEL 8	120			
Sampling method: Dedicated bailer / TPH mo Total Pb EDB 8240 601 602 Nitrates 8260 8270 Other:									
HYD	RA-		P	URGE/SAMPLE SH	EET	Job No.			
	R & NME	NTAL	WEL	L# <u>Mw-E</u>	<u> </u>	8-019 SHEET			
81	_	IES, INC.	LOCATION	N: Mobil - San L	orenzo	1 of 1			

I

PURGED/S	PURGED/SAMPLED BY:TR/RA			DATE: _	8/19/93				
Conversion Depth to bottom: 22.25 ft. Depth to water: 13.06 ft. Saturated Thickness: 9-19 ft. Conversion Gauging Data: Conversion Mell casing volume 5.97 gall # volumes to purge x 3 vols *Total volume to purge = 17.91 gall * unless chemical parameters stabilize earlier									
	PURGING DATA: Purge method: PVC bailer Submersible pump/ Suction lift pump/								
	Time	Volume (gallons)	Temp. (學)~	Conductivity (mS/cm)	pН				
	1152	0							
		5	23.1	1.408	7.71	,			
		D	22.4	1.392	7,60				
	*	15	22.2	1-388	746				
Day	2:06	14	22.6	1.386	7.43				
				7					
	Color: +	<u> </u>	Turbi	idity: <u>s (Joh</u>)	<u> </u>	1.			
	Recharge:		SPP_	Λ		, :			
SAMPLIN	G DATA:				ple for: (circle)	10			
Sampling	method: Dedic	ated baile /		TPHA	O-P5 TEL 80	20			
	TPH mo Total Po EDB 8240								
HYD	RA-		P	URGE/SAMPLE SH	EET	Job No.			
i i	R & NME	NTAL	WEL	L# MW-E		8-019 SHEET			
81		IES, INC	LOCATION	N: Mobil - San L	orenzo	1 of 1			

PURGED/S	AMPLED BY:	TR/	RA	DATE: _	8/19/93						
GAUGING DATA:											
Depth to bo	ttom: 23.84	⁷ ft.	version	Well casing volu							
Depth to wa	ter: 13.48	diam. 2 in.	gals/ft. x_0.16	# volumes to purg		_					
Saturated Thickness: 10.36 ft.											
PURGING DATA:											
Purge method: PVC bailer Submersible pump/ Suction lift pump/ (circle one)											
	Time	Volume (gallons)	Temp. (°F)	Conductivity (mS/cm)	pН						
	2139	0									
		5			(0,70)						
	4	LO	Meto	n broke							
dy	2:48	12									
	Color:		Turbi	idity: læshi	<u>t</u>	-					
	Recharge:	bour	SPP_	h		<i>;</i>					
SAMPLING	G DATA:			Sam	ple for: (circle)						
				IPHg/BTEX		110 120					
Sampling :	method: Dedicate	ated baile /		TPH me	Total Po EDS &	240					
				601 Other:	602 Nitrates &	250 8270					
HYD	R 🌢 -		P	URGE/SAMPLE SH	EET	Job No.					
8 !	R & NME	NTAL	WEL	L# MW-		8-019 SHEET					
E. 1		IES, INC.	LOCATION	LOCATION: Mobil - San Lorenzo 1 of 1							

											
PURGED/SAMPLED BY:	TR	/RA	DATE:	8/19/93							
GAUGING DATA: Depth to bottom: 22.4 Depth to water: 12.7 Saturated Thickness: (0.22	ft. diam. 2 in. 4 in.	× 0.16 × 0.65	*Total volume to purge = 16 -4 gallon								
PURGING DATA: Purge method: PVC bailer Submersible pump/ Suction lift pump/											
Time	Volume (gallons)	Temp.	Conductivity (mS/cm)	pН							
Z1152	0										
	5	20.4	1.036	7.72							
	10	12.9	1.068	7.63							
4	15	194,9	0.941	7.55							
2:32	20	20-0	1.025	7.51							
V											
] _						
					1						
					.						
Color: 4	- Brown	Turt	pidity: High	r	.						
	G∞d		ft.		, <u> </u>						
SAMPLING DATA:				ple for: (circle)							
Compliant matter (Part)	band belle /		TPH4	METALS TOG 80 O-Pb TEL 80							
Sampling method: Dedi	Lateu Daller /	-	TPH mo 601 Other:	Total Po EOB 82 602 Nitrates 82	,						
HYDR -			PURGE/SAMPLE SH	EET	Job No.						
ENVIR NMI	ENTAL	WEI	1# _ MU-8		8-019 SHEET						
TECHN & LOG		LOCATIO	SHEE!								

RECEIVED SEP



SEQUOIA ANALYTICAL

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

Hydro Environmental

Client Project ID:

Mobil, 8-019

Sampled:

Aug 10, 1993

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

Sample Matrix: Analysis Method:

Soil EPA 5030/8015/8020 Received:

Aug 11, 1993

Attention: Scott Kellstedt

First Sample #:

3H48901

Reported: Aug 17, 1993

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3H48901 MW-8-6.5'	Sample I.D. 3H48902 MW-8-11'	Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.
Purgeable Hydrocarbons	1.0	N.D.	N.D.				
Benzene	0.0050	N.D.	N.D.			,	
Toluene	0.0050	N.D.	N.D.				
Ethyl Benzene	0.0050	N.D.	N.D.				
Total Xylenes	0.0050	N.D.	N.D.				
Chromatogram Pattern:							

Quality Control Data

Report Limit Multiplication Factor:

1.0

1.0

Date Analyzed:

8/12/93

8/12/93

Instrument Identification:

GCHP-6

99

GCHP-6

102

Surrogate Recovery, %:

(QC Limits = 70-130%)

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

3H48901.HEN <1>



SEQUOIA ANALYTICAL

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

Matrix:

Hydro Environmental

Client Project ID: Mobil, 8-019

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

Water

Alameda, CA 94501

Attention: Scott Kellstedt QC Sample Group: 3H48901 - 02

Reported: Aug 17, 1993

QUALITY CONTROL DATA REPORT

A NIAT VITE			Cate. d	<u></u>
ANALYTE	Benzene	Toluene	Ethyl- Benzene	Xylenes
L		*		<u>,</u>
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	C. Donohue	C. Donohue	C. Donohue	C. Donohue
Conc. Spiked:	0.20	0.20	0.20	0.60
Units:	mg/kg	mg/kg	mg/kg	mg/kg
	9,9			9,9
LCS Batch#:	GBLK081293	GBLK081293	GBLK081293	GBLK081293
Date Prepared:	8/12/93	8/12/93	8/12/93	8/12/93
Date Analyzed:	8/12/93	8/12/93	8/12/93	8/12/93
Instrument I.D.#:	GCHP-6	GCHP-6	GCHP-6	GCHP-6
	301 3			2.2
LCS %				
Recovery:	100	100	100	100
Control Limits:	60-140	60-140	60-140	60-140
	23,370,000/000000000000000000000000000000	******************************	*****	************
MS/MSD		0-11/		00111
Batch #:	G3H43908	G3H43908	G3H43908	G3H43908
Date Prepared:	8/12/93	8/12/93	8/12/93	8/12/93
Date Analyzed:	8/12/93	8/12/93	8/12/93	3/12/93
Instrument I.D.#:	GCHP-6	GCHP-6	GCHP-6	GCHP-6
Matrix Spike				
% Recovery:	90	90	95	93
Matrix Spike				
Duplicate %				
Recovery:	95	100	100	97
Hecovery.	34	100	100	31
Relative %				
Difference:	5.4	11	5.1	3.5
=	-		-	

SEQUOIA ANALYTICAL

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

Maile A. Springer Project Manager

Mobil Chain of Custody



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

Consulting Firm Na	ıme: HYD	RO-EI	NVIRON	JMENTA1	Sit	e SS	#: \C) — L	. 1X	•			ase of Work:
Address: 23/3 MARIATER CD Dr #243 Mobil Site Address: 15894 HOSPERIAN												A. Emrg. Response	
MINITAL CA 9151 WILLIAM & Dan												و ا	B. Site Assessment
													C. Remediation D. Monitoring
													•
Project Contact: 32517 K-E115167 Sampled by: N. AUCKA Sequola's Work Older Release #. Analyses Requested													
Turnaround Time: A Standard TAT (5 - 10 Working Days)													
Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	/8	Call N		10 0 10 10 10 10 10 10 10 10 10 10 10 10				\angle	Comments
1. MW8-67	1/MY0-8-93	Soil	1 Brass tube		X								cool 4°C
2. MW-8-11			1 brass tube		X					٠.			11
3.		Agentus Maria Maria			44 ju	-1			,	*			
4.	74.7 27.7 27.7				 	-1	;						
5.	7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00		\$ 15.25 20			·	1.5. Y			, is - 7	#		
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9.								,					
10.													
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•Relinguished By:	,	- 4	Date:	Time:		Recei	ved By:				Date:		Time:

RECEIVED SEP 1



SEQUOIA ANALYTICAL

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

Hydro Environmental

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

Alameda, CA 94501 Attention: Scott Kellstedt Client Project ID:

Sample Matrix:

Mobil 10-UX Water

Analysis Method: First Sample #:

EPA 5030/8015/8020

3H95701

Sampled:

Aug 19, 1993

Received: Aug 23, 1993 Reported:

Aug 31, 1993

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 3H95701 MW-2	Sample I.D. 3H95702 MW-5	Sample I.D. 3H95703 MW-6	Sample i.D. 3H95704 MW-7	Sample I.D. 3H95705 MW-8	Sample I.D.
Purgeable Hydrocarbons	50	N.D.	N.D.	N.D.	88	N.D.	
Benzene	0.50	N.D.	N.D.	N.D.	1.7	N.D.	
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	9.0	N.D.	
Total Xylenes	0.50	N.D.	N.D.	N.D.	4.8	N.D.	
Chromatogram Pat	ttern:				Gas		

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	8/25/93	8/25/93	8/25/93	8/25/93	8/25/93
Instrument Identification:	GCHP-18	GCHP-18	GCHP-18	GCHP-18	GCHP-18
Surrogate Recovery, %: (QC Limits = 70-130%)	93	94	95	107	94

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

Hvdro Environmental

Mobil 10-LIX Client Project ID:

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

Matrix:

Water

Alameda, CA 94501

Attention: Scott Kellstedt

QC Sample Group: 3H95701 - 05

Reported: Aug 31, 1993

QUALITY CONTROL DATA REPORT

·				
ANALYTE			Ethyl-	
	Benzene	Toluene	Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	R. Geckier	R. Geckler	R. Geckler	R. Geckler
Conc. Spiked:	10	10	10	30
Units:	μg/L	μg/L	μg/L	μg/L
LCS Batch#:	GBLK082593	GBLK082593	GBLK082593	GBLK082593
Date Prepared:	8/25/93	8/25/93	8/25/93	8/25/93
Date Analyzed:	8/25/93	8/25/93	8/25/93	8/25/93
Instrument I.D.#:	GCHP-18	GCHP-18	GCHP-18	GCHP-18
LCS %				
Recovery:	94	95	94	93
Control Limits:	80-120	80-120	80-120	80-120
MS/MSD				
Batch #:	P3HA3703	P3HA3703	P3HA3703	P3HA3703
Date Prepared:	8/25/93	8/25/93	8/25/93	8/25/93
Date Analyzed:	8/25/93	8/25/93	8/25/93	8/25/93
Instrument I.D.#:	GCHP-18	GCHP-18	GCHP-18	GCHP-18
Matrix Spike				
% Recovery:	91	91	91	90
Matrix Spike				
Duplicate %				
Recovery:	99	99	99	100
Relative %				
Difference:	8.4	8.4	8.4	10

SEQUOIA ANALYTICAL

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.

Maile A. Springer Project Manager

Mobil Chain of Custody



Redwood City:
Concord:
Sacramento:

(413) 364-9000 (510) 686-9600 (916) 921-9600

_	1- 2														
	Consulting Firm Na	S	Site SS #: 10 - Fix LIX Phase of Work:												
														A. Emrg. Response	
	City: Alamada State: CA Zip Code: 94501								· ·						
													a	C. Remediation	
	Telephone: 51	0-521-	2684	FAX #: 51	0-521-507	8 0	onsult	ant Proj	ect#:	8-0	>19		\ >	D. Monitoring	
	Project Contact: 5						-		Order Re				. <u> 0</u>	E. OGC/Claims	
u tog	Turnaround Time		~ `	•	-		Ż		Kirl Kr.		7	Request	ed		
F	Client Sample I.D.	Date/Time Sampled	Matrix Description	# of Containers	Sequoia's Sample #	//	2× / ×		34 10 10 10 10 10 10 10 10 10 10 10 10 10	CION OF				Comments	
	1. Mw. 2	8/19/93	1+20	7	9358957	X								all samples	
	2. MW - S			1		乂	ļ	15						all sumplies	
	3. MW - 6	and the second				X				1919 - 1 11.1	, 	<u> </u>			
Ì	4. MW-7					Х	<u> </u>			·	,				
	5. MW - 8	4	#	7		/		~ <u>`</u>	<i>i</i> .	· 				-	
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	10.								<i>'</i>					14	
Ī	Relinquished By:	Time: 8/4	٠	Recei	ved By:		Oster		Date: 8	3/2/9=	Time: 8:00am.				
	Relinquished By:	X. Willster	61	Date: 820	13 Time:		Received By: Jam 8/2				Date:	123/93	Time 2.28		
* "	∛ . ∴ Relinguished By:			Date: Time:							Date:		Time:		
1. D	•Method of Shipment Courter (SEC)														

93 NOV -5 PH 12: 32

October 29, 1993

Ms. Juliet Shin Alameda County Dept. of Environmental Health Hazardous Materials Division 80 Swan Way Room 200 Oakland, CA 94621 MOBIL OIL CORP.
FORMER S/S #10-L1X
15884 HESPERIAN BLVD
SAN LORENZO, CA

Dear Ms. Shin:

Enclosed for your information is the phase II subsurface investigation and quarterly monitoring and sampling report dated September 16, 1993 for subject location.

If you have any questions, please feel free to contact me at (818) 953-2626.

Sincerely,

Stephen Pao Field Engineer II

enclosure

cc: Mr. Rich Hiett (w/ enclosure)
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

G. G. Smith (w/o)

