

### **Consulting Engineers**

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### **RECEIVED**

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Alameda County
Environmental Health

KEI-P89-0111.QR5 October 23, 1990

Unocal Corporation 2000 Crow Canyon Place, Suite #400 P.O. Box 5155 San Ramon, CA 94583

Attention: Mr. Ron Bock

RE: Quarterly Report

Unocal Service Station #5487

28250 Hesperian Blvd. Hayward, California

Dear Mr. Bock:

This report presents the results of the fifth quarter of monitoring and sampling of the monitoring wells at the referenced site by Kaprealian Engineering, Inc. (KEI), per proposal KEI-P89-0111.P3 dated June 4, 1990. The wells are currently monitored monthly and sampled on a quarterly basis. This report covers the work performed by KEI from June through August, 1990.

#### **BACKGROUND**

The subject site is presently used as a gasoline station. A Location Map and Site Plans are attached to this report.

KEI's work at the site began on January 30, 1989 when KEI was asked to collect soil samples following the removal of two underground fuel storage tanks and one waste oil tank at the site. Water was encountered in the excavation at a depth of 10.5 Sample locations are as shown on the attached Site Plans, Figures 2 through 5. Soil and water samples were analyzed by Sequoia Analytical Laboratory in Redwood City, California, for total petroleum hydrocarbons (TPH) as gasoline, and benzene, toluene, xylenes and ethylbenzene (BTX&E). The waste oil sample was also analyzed for TPH as diesel, total oil and grease (TOG), EPA method 8010 and EPA method 8270 constituents, and metalscadmium, chromium, lead and zinc. After additional excavation, soil sample analyses from the fuel tank pit showed less than 2 ppm of TPH as gasoline for all samples representing the final pit excavation. After additional excavation in the waste oil pit, soil samples analyses showed low residual levels of contamination, indicating that the majority of contaminated soil has been excavated.

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on February 14, 1989, in preparation for setting of the new fuel storage tanks, approximately 17,500 gallons of water was pumped from the fuel tank pit. On February 17, 1989, additional soil was excavated from the waste oil tank pit and 4,500 gallons of water were pumped and disposed of by H & H Haulers. Based on the results of the laboratory analyses, and in order to comply with the requirements of the regulatory agencies, KEI proposed the installation of five monitoring wells. Documentation of sample collection and results of the soil and ground water samples collected in January and February, 1989, are summarized in KEI's reports (KEI-J89-0111.R2 dated March 1, 1989, and KEI-J89-0111.R3 dated March 29, 1990). Soil sample results are summarized in Tables 4 and 5, and water in Table 3.

Five monitoring wells, designated as MW1 through MW5 on the attached Site Plan, Figure 1, were installed on April 20 and 21, 1989. Analytical results of the water samples, collected from MW1 and MW4, showed benzene levels at 2.1 ppb and 0.33 ppb, respectively. Analytical results for all other samples indicated non-detectable levels for all constituents analyzed. Documentation of the installation, development and sampling of the monitoring wells is presented in KEI's report (KEI-P89-0111.R5) dated May 18, 1989. Soil sample results from that report are summarized in Table 6, and water in Table 2.

Subsequently, KEI proposed a monthly monitoring and quarterly sampling program of existing wells which was initiated in June, 1989. The results of the first quarter are presented in KEI's report (KEI-P89-0111.QR1) dated October 17, 1989.

### FIELD ACTIVITIES

The five wells were monitored six times and sampled once during the quarter. In addition, well MW5 was purged of approximately 50 gallons six times during the quarter. During monitoring, the wells were checked for depth to water and presence of free product and sheen. No free product or sheen was noted in any of the wells during the quarter. Monitoring and purging data are summarized in Table 1.

Water samples were collected from the wells on August 29, 1990. Prior to sampling, the wells were each purged of between 15 and 55 gallons. Samples were then collected using a clean Teflon bailer. Samples were decanted into clean VOA vials and/or one liter amber bottles as appropriate which were sealed with Teflonlined screw caps and stored in a cooler on ice until delivery to the state certified laboratory.

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#### HYDROLOGY AND GEOLOGY

Based on the water level data gathered during the quarter, the ground water flow direction appeared to be predominantly toward the northeast over the majority of the site, with a flow direction toward the northwest at the northwest corner of the site. The gradient ranged from approximately 0.020 to 0.0096 on August 29, 1990. Water levels have fluctuated during the quarter, but show a net decrease of between 0.36 and 0.54 feet in all of the wells since the previous quarter. The measured depth to ground water at the site on August 29, 1990 ranged between 7.54 and 8.78 feet. Well MW5 is considered an upgradient well.

Based on review of regional geologic maps (U.S. Geological Survey Professional Paper 943 "Flatland Deposits - Their Geology and Engineering Properties and Their Importance to Comprehensive Planning" by E.J. Helley and K.R. Lajoie, 1979), the subject site is underlain by Holocene-age coarse-grained alluvium (Qhac). The coarse-grained alluvium typically consists of unconsolidated, moderately sorted sand and silt materials with local gravel lenses. In addition, the site is situated closely adjacent to a mapped geologic contact with Holocene-age medium-grained alluvium (Qham), which is described as typically consisting of unconsolidated fine sand, silt, and clayey silt with a trace of coarse sand.

The results of our previous subsurface investigation (borings for MW1 through MW5) indicate that the site is predominantly underlain by sandy to silty clay materials. However, in the vicinity of MW1 and MW4, the relatively thick sequence of clay materials are underlain by a clayey sand bed at a depth of about 24 feet in MW1 and about 23 feet in MW4, and extend to the maximum depth explored (28 feet). Clayey sand materials were not encountered in MW2, MW3 or MW5.

### ANALYTICAL RESULTS

Water samples were analyzed at Sequoia Analytical Laboratory in Redwood City, California, and were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for TPH as gasoline using EPA method 5030 in conjunction with modified 8015, and BTX&E using EPA method 8020. In addition, samples from MW1 and MW2 were analyzed for TPH as diesel using EPA method 3510 in conjunction with modified 8015, TOG using EPA method 503A&E, and halogenated volatile organics using EPA method 8010.

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Analytical results of the ground water samples collected from monitoring wells MW1 through MW5, indicate non-detectable levels of TPH as gasoline and benzene, except in upgradient well MW5, where benzene was detected at a concentration of 0.70 ppb. In MW1, TPH as diesel, TOG and EPA method 8010 constituents were non-detectable. Results of the analyses are summarized in Table 2. Copies of the analytical results and Chain of Custody documentation are attached to this report.

#### DISCUSSION AND RECOMMENDATIONS

Based on the analytical results collected and evaluated to date and no evidence of free product or sheen in any of the wells, KEI recommends the continuation of the current monitoring and sampling program of the existing wells per KEI's proposal (KEI-P89-0111.P3) dated June 4, 1990. KEI also notes the reduction of contaminants in well MW5 compared to the last quarter, and therefore recommends continuation of its bi-weekly purging as outlined in the above proposal. In addition, well MW5 continues to be an upgradient well and therefore an off-site source of ground water contamination appears to be possible. KEI recommends a detailed review of Regional Water Quality Control Board (RWQCB) files of adjacent properties be conducted to determine sources of potential off-site contamination.

#### DISTRIBUTION

A copy of this report should be sent to the Alameda County Department of Public Health, and to the RWQCB, San Francisco Bay Region.

#### **LIMITATIONS**

Environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants.

Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

If you have any questions regarding this report, please do not hesitate to call me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

My L. Eppile

Jeffrey F. Eppink Senior Geologist

Don R. Braun

Certified Engineering Geologist

Mo Kyrlo

License No. 1310 Exp. Date 6/30/92

Mardo Kaprealian President

\bam

Attachments:

Tables 1 through 6

Location Map

Site Plans - Figures 1 through 5

Laboratory Analyses

Chain of Custody documentation

TABLE 1
SUMMARY OF MONITORING DATA

<u>Date</u>	Well No.	Depth to Water (feet)	Product <u>Thickness</u>	<u>Sheen</u>	Water Bailed (gallons)
8/29/90	MW1	8.34	0	None	15
	MW2	8.78	0	None	15
	MW3	8.32	0	None	15
	MW4	8.04	0	None	15
	MW5	7.54	0	None	55
8/15/90	MW1	8.20	0	None	0
	MW2	8.63	0	None	0
	MW3	8.17	0	None	0
	MW4	7.92	0	None	0
	MW5	7.40	0	None	55
7/30/90	MW1	8.00	0	None	0
	MW2	8.46	0	None	0
	MW3	7.99	0	None	0
	MW4	7.74	0	None	0
	MW5	7.24	0	None	55
7/16/90	MW1	7.89	O	None	0
	MW2	8.33	0	None	0
	MW3	7.90	0	None	0
	MW4	7.65	0	None	0
	MW5	7.18	0	None	55
6/29/90	MW1	7.60	0	None	0
	MW2	8.00	0	None	0
	MW3	7.63	0	None	0
	MW4	7.38	0	None	0
	MW5	6.94	0	None	50
6/15/90	MW1	7.46	0	None	0
	MW2	8.15	0	None	0
	MW3	8.22	0	None	0
	MW4	7.13	0	None	0
	MW5	6.77	0	None	55

TABLE 2
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Sample Well #	TPH as <u>Diesel</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	Ethyl- <u>benzene</u>
08/29/90	MW1*	ND	ND	ND	ND	0.74	ND
,,	MW2		ND	ND	ND	ND	ND
	MW3		ND	ND	0.52	ND	ND
	MW4		ND	ND	ND	ND	ND
	MW5		ND	0.70	ND	1.1	0.57
05/16/90	MW1*	ND	ND	ND	ND	ND	ND
	MW2*	ND	ND	ND	ND	ND	ND
	MW3		ND	ND	ND	ND	ND
	MW4		ND	ND	ND	ND	ND
	MW5		1,100	310	2.8	110	70
02/16/90	MW1*	ND	ND	ND	ND	ND	ND
	MW2		ND	ND	ND	ND	ND
	MW3		ND	ND	ND	ND	ND
	MW4		ND	ND	ND	ND	ND
	MW5		ND	ND	ND	ND	ND
11/14/89	MW1*	ND	ND	ND	ND	ND	ND
	MW2 *	ND	ND	ND	ND	ND	ND
	MW3		ND	ND	ND	ND	ND
	MW4		ND	ND	ND	ND	ND
	MW5		73	4.7	0.97	16	2.9
08/16/89	MW1**	ND	ND	ND	ND	ND	ND
	MW2**	ND	ND	ND	ND	ИD	ND
	MW3	~-	ND	ND	ND	ND	ND
	MW4	<b></b>	ND	ND	ND	ND	ND
	MW5	~-	4,400	1,400	84	950	200

TABLE 2 (Continued)

# SUMMARY OF LABORATORY ANALYSES WATER

<u>Date</u>	Sample <u>Well</u> #	TPH as <u>Diesel</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	Ethyl- <u>benzene</u>
08/31/89	MW5		910	120	7.1	53	50
04/26/89	MW1*** MW2*** MW3*** MW4*** MW5***	ND ND ND ND ND	ND ND ND ND	2.1 ND ND 0.33 ND	ND ND ND ND ND	ND ND ND ND	ND ND ND ND ND
Detectio Limits	n	50	30	0.3	0.3	0.3	0.3

- \* TOG and EPA method 8010 constituents were non-detectable.
- \*\* TOG for these samples were 23 ppm and 7.4 ppm, respectively. EPA method 8010 constituents were non-detectable for both samples.
- \*\*\* These samples were non-detectable for TPH as diesel, TOG, and EPA method 8010 constituents.
- -- Indicates analysis not performed.

ND = Non-detectable.

Results in parts per billion (ppb), unless otherwise indicated.

TABLE 3
SUMMARY OF LABORATORY ANALYSES
WATER

<u>Date</u>	Sample Well #	TPH as <u>Diesel</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	Ethyl- <u>benzene</u>	
02/14/89	WlA	110		2.2	0.55	12	<0.5	
04/17/89	W1B	All EPA 601 constituents were non-detectable.						
	WO-W1*	1,300	500	52	8.6	100	9.2	

- \* TOG and all EPA 601 constituents were non-detectable.
- -- Indicates analysis not performed.

Results in parts per billion (ppb), unless otherwise indicated.

TABLE 4
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on January 30, February 2, 14 & 17, 1989)

Sample #	Depth (feet)	TPH as <u>Gasoline</u>	TPH as <u>Diesel</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	Ethyl- <u>benzene</u>
SW1	10	1.4		0.14	<0.1	<0.1	<0.1
SW2A	10	1.1		<0.05	<0.1	<0.1	<0.1
SW3A	10	<1.0		<0.05	<0.1	<0.1	<0.1
SW4	10	<1.0	<b>_</b> _	<0.05	<0.1	<0.1	<0.1
SW5	10	130		1.1	4.6	18	3.7
SW5A	10	<1.0		<0.05	<0.1	<0.1	<0.1
SW6A	10	<1.0		<0.05	<0.1	<0.1	<0.1
P1	3.5	7.8		2.0	<0.1	2.4	0.53
P2	3.5	12		1.9	0.91	0.70	3.0
<b>P</b> 3	3.5	11		0.37	0.36	0.29	1.7
SWA*	10	<1.0	1.0	<0.05	<0.1	<0.1	<0.1
SWB*	10	1.1	2.4	<0.05	<0.1	<0.1	<0.1
SWC*	10	110	180	0.68	<0.1	5.6	1.9
SWC2*	10	89	57	<0.05	<0.1	0.42	0.76
SWC3*	10	<1.0	<1.0	<0.05	<0.1	<0.1	<0.1
SWD*	10	<1.0	<1.0	<0.05	<0.1	<0.1	<0.1
WO1**	9	60	800	3.6	9.2	9.5	2.5

<sup>\*</sup> TOG for SWA was 35 ppm, SWB was 44 ppm, SWC was 500 ppm, SWC2 was 680 ppm, SWC3 was <30 ppm, and SWD was 77 ppm.

Results in parts per million (ppm), unless otherwise indicated.

<sup>\*\*</sup> TOG was 1,900 ppm; cadmium 0.3 ppm; chromium 39 ppm; lead 10 ppm and zinc 42 ppm.

<sup>--</sup> Indicates analysis not performed.

TABLE 5
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on March 9, 1989)

Sample <u>Number</u>	Cadmium	Chromium	<u>Lead</u>	Zinc
SWA*	0.2	96	4.7	35
SWB*	0.16	91	5.1	29
SWC3*	0.33	140	6.8	41
SWD*	0.19	92	4.8	32
Detection Limits	0.1	0.05	0.05	0.1

<sup>\*</sup> All EPA method 8010 and 8270 constituents were non-detectable. Results in parts per billion (ppb), unless otherwise indicated.

TABLE 6
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on April 20, 1989)

Sample <u>Number</u>	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Xylenes	Ethylbenzene
MW1*	5	ND	ИD	ND	ND	ND
MW2*	5	ND	ND	ND	ND	ND
MW3 MW3	5 9	ND ND	ND ND	ND ND	ND ND	ND ND
MW4 MW4	5 9	ND 1.4	ND ND	ND ND	ND ND	ND ND
MW5 MW5	5 9	900 ND	3.1 ND	3.1 ND	110 ND	30 ND
Detect Limits		1.0	0.05	0.1	0.1	0.1

<sup>\*</sup> TPH as diesel, TOG, and EPA method 8010 constituents were non-detectable.

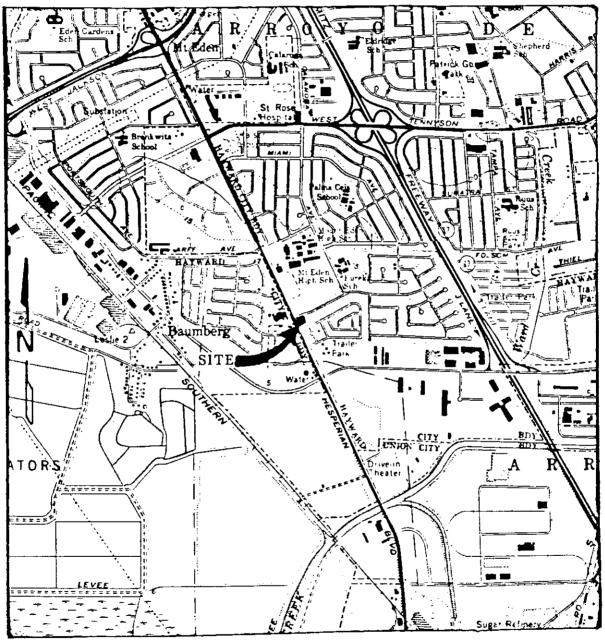
ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.



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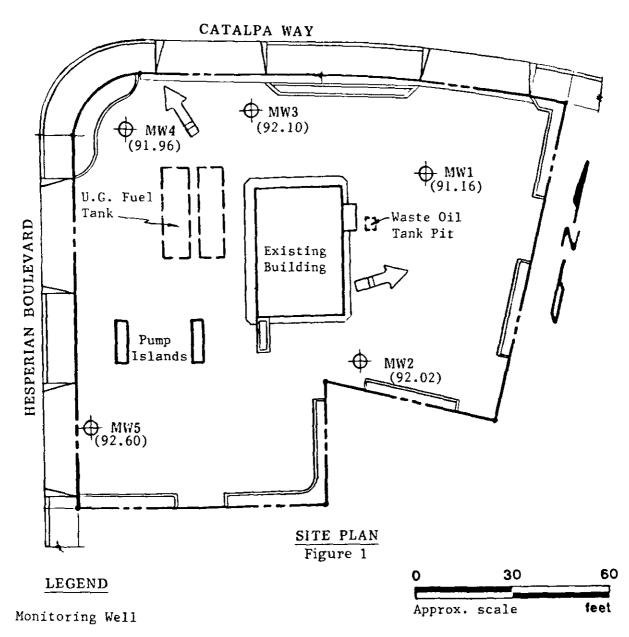
LOCATION MAP

Unocal S/S #5487 28250 Hesperian Boulevard Hayward, CA



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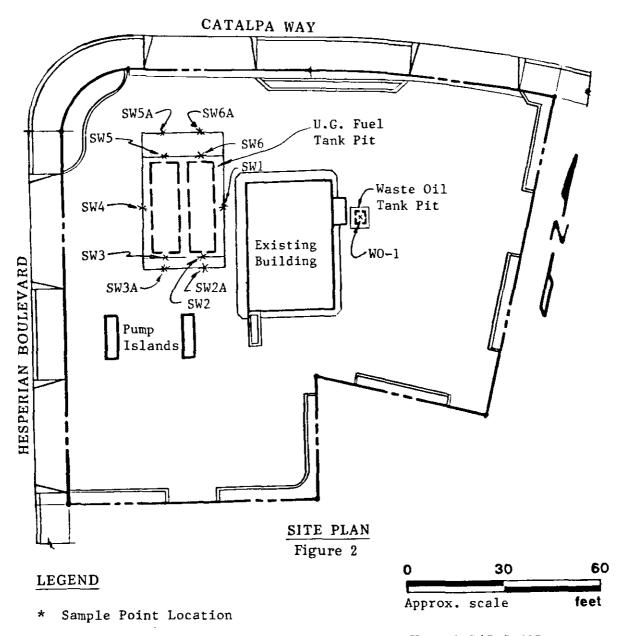
Direction of Ground Water Flow

() Water Table elevation in feet on 8/29/90 . MWI well cover assumed 100.00 feet as datum.

Unocal S/S #5487 28250 Hesperian Boulevard Hayward, CA



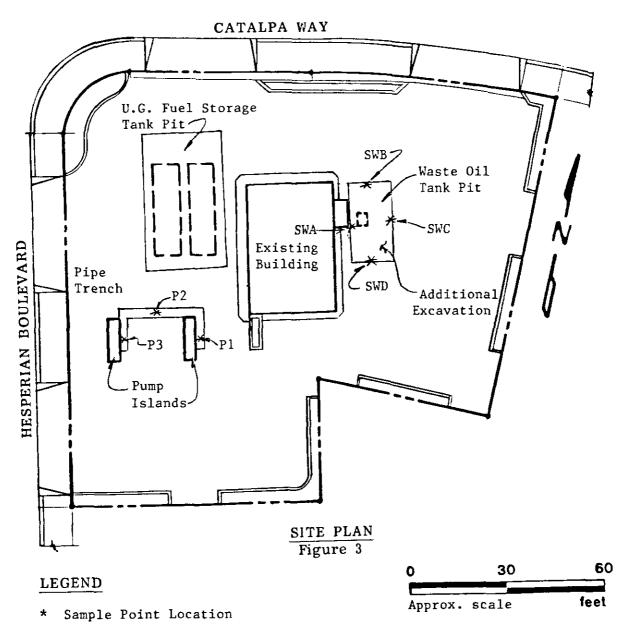
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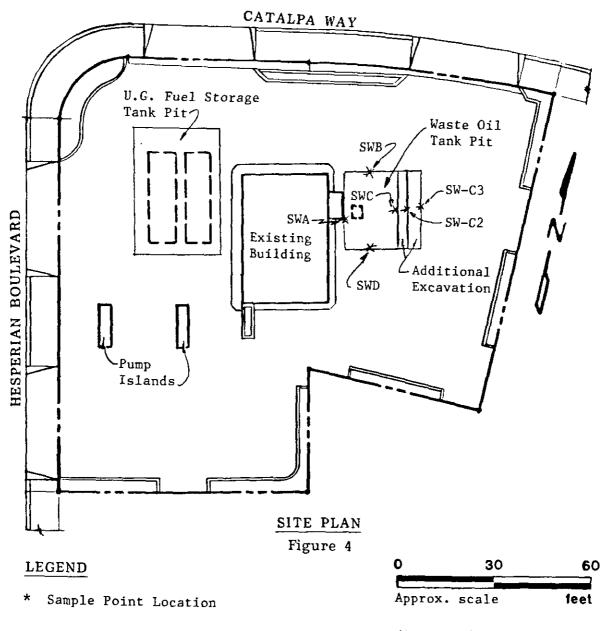
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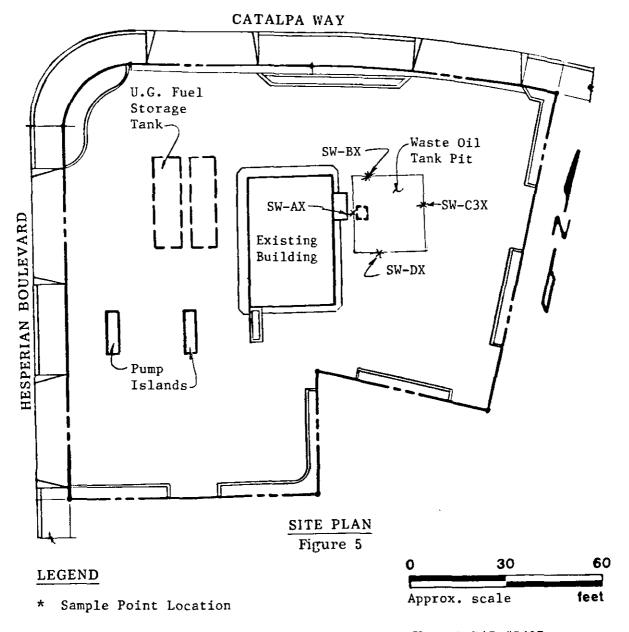
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1900 Bates Avenue • Suite LM • Concord, California 94520 (415) 686-9600 • FAX (415) 686-9689

Kaprealian Engineering, Inc.

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Unocal, Hesperian/Catalpa, Hayward

Water

Matrix Descript: Analysis Method:

First Sample #:

EPA 5030/8015/8020

008-0722 A-B Sampled:

Aug 29, 1990

Received: Analyzed: Aug 30, 1990 Sep 4, 1990

Reported:

Sep 6, 1990

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

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Benzene μg/L (ppb)	Toluene μg/L (ppb)	Ethyl Benzene μg/L (ppb)	<b>Xylenes</b> μg/L (ppb)
008-0722 A-B	MW1	N.D.	N.D.	N.D.	N.D.	0.74
008-0723 A-B	MW2	N.D.	N.D.	N.D.	N.D.	N.D.
008-0724 A-B	MW3	N.D.	N.D.	0.52	N.D.	N.D.
008-0725 A-B	MW4	N.D.	N.D.	N.D.	N.D.	N.D.
008-0726 A-B	MW5	N.D.	0.70	N.D.	0.57	1.1

}						
Detection Limits:	30	0.30	0.30	0.30	0.30	
L	 					

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

**SEQUOIA ANALYTICAL** 



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Kaprealian Engineering, Inc.

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Matrix Descript:

Analysis Method: First Sample #: Unocal, Hesperian/Catalpa, Hayward

Water EPA 3510/8015

008-0722 C

Sampled: Aug 2

Aug 29, 1990

Received: Aug 30, 1990 Extracted: Sep 4, 1990

Analyzed: Sep 4, 1990 Reported: Sep 6, 1990

## **TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)**

Sample Number Sample Description

High B.P. Hydrocarbons

> μg/L (ppb)

008-0722 C

MW1

N.D.

**Detection Limits:** 

50

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard. Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** 



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Kaprealian Engineering, Inc.

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Matrix Descript:

Analysis Method:

First Sample #:

Unocal, Hesperian/Catalpa, Hayward

Water

SM 503 A&E (Gravimetric)

008-0722

Sampled:

Aug 29, 1990

Received: Extracted:

Aug 30, 1990 Aug 31, 1990

Analyzed: Reported: Sep 4, 1990 Sep 6, 1990

### TOTAL RECOVERABLE PETROLEUM OIL

Sample Number

Sample Description Oil & Grease

mg/L (ppm)

008-0722 D

MW<sub>1</sub>

N.D.

**Detection Limits:** 

5.0

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

**SEQUOIA ANALYTICAL** 



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Kaprealian Engineering, Inc.

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Sample Descript:

Lab Number:

Water, MW1 Analysis Method:

EPA 5030/8010 008-0722

Unocal, Hesperian/Catalpa, Hayward

Sampled: Received:

Aug 29, 1990 Aug 3, 1990

Analyzed: Reported: Aug 31, 1990 Sep 6, 1990

### **HALOGENATED VOLATILE ORGANICS (EPA 8010)**

Analyte	Detection Limit µg/L		Sample Results µg/L
Bromodichloromethane	1.0	***************************************	N.D.
Bromoform	1.0	**************************	N.D.
Bromomethane	1.0	***************************************	N.D.
Carbon tetrachloride	1.0	*************************************	N.D.
Chlorobenzene	1.0	***************************************	N.D.
Chloroethane	5.0	***************************************	N.D.
2-Chloroethylvinyl ether	1.0		N.D.
Chloroform	0.50	***************************************	N.D.
Chloromethane	0.50	***************************************	N.D.
Dibromochloromethane	0.50		N.D.
1,2-Dichlorobenzene	2.0	*******************************	N.D.
1,3-Dichlorobenzene	2.0	***************************************	N.D.
1,4-Dichlorobenzene	2.0	***************************************	N.D.
1,1-Dichloroethane	0.50	***************************************	N.D.
1,2-Dichloroethane	0.50	***************************************	N.D.
1,1-Dichloroethene	1.0	***************************************	N.D.
Total 1,2-Dichloroethene	1.0	*******************************	N.D.
1,2-Dichloropropane	0.50		N.D.
cis-1,3-Dichloropropene	5.0	***************************************	N.D.
trans-1,3-Dichloropropene	5.0	***************************************	N.D.
Methylene chloride	2.0	************************	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	1.0	************	N.D.
Vinyl chloride	2.0	******************************	N.D.

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

**SEQUOIA ANALYTICAL** 

	7155	
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11	W.	

CHAIN OF CUSTODY SITE NAME & ADDRESS TURN AROUND TIME: UNOCAL HAYWARD HESPERIAN KATALPA 1 Week WITNESSING AGENCY NO. SAMPLE OF SAMPLING | SOIL | WATER | GRAB | COMP | CONT. ID NO. DATE | TIME LOCATION XXXXXX XIX |Relinquished by: (Signature) Received by: (Signature) The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? Relinquished by: (Signature) Date/Time Received by: (Signature) 2. Will samples remain refrigerated until analyzed? Relinquished by: (Signature) Date/Time Received by: (Signature) 3. Did any samples received for analysis have head space? Were samples in appropriate containers and properly packaged? Relinguished by: (Signature) Date/Time Received by: (Signature) 8 29 /20 3/27/90 Signature Title Date