

MONITORING
PURGING
DISPOSING
SAMPLING

MPDS

SERVICES, INCORPORATED

RECEIVED
95 FEB 21 PM 11:43

STID #
1747

February 20, 1996

Mr. Scott Seery
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

RE: Unocal Service Station #5430
1935 Washington Avenue
San Leandro, California

Per the request of the Unocal Corporation Project Manager, Mr. David J. Camille, enclosed please find our most recent data report for the above referenced site.

Should you have any questions regarding the reporting of data, please feel free to call our office at (510) 602-5120. Any other questions may be directed to the Project Manager at (510) 277-2335.

Sincerely,

MPDS Services, Inc.



Jarrel F. Crider

/jfc

Enclosure

cc: Mr. David J. Camille



PACIFIC
ENVIRONMENTAL
GROUP, INC.

STAD
1747

January 18, 1996
Project 310-038.1C

Mr. John Jang
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Re: Unocal Corporation
Quarterly Summary Report
Fourth Quarter 1995

Dear Mr. Jang:

As directed by Mr. Dave Camille of Unocal Corporation, Pacific Environmental Group, Inc. is forwarding the quarterly summary report for the following location:

Service Station

Location

5430

1935 Washington Avenue, San Leandro

If you have questions or comments, please do not hesitate to contact our office at (408) 441-7500.

Sincerely,

Pacific Environmental Group, Inc.

Joseph Muzzio
Project Geologist

Enclosure

cc: Mr. Dave Camille, Unocal Corporation
Mr. Michael Bakaldin, San Leandro Fire Department
Mr. Dale Klettke, Alameda County Environmental Health Care Services

**Quarterly Summary Report
Fourth Quarter 1995**

Unocal Service Station 5430
1935 Washington Avenue at Castro Street
San Leandro, California

County STID #: 1747
County: Alameda

BACKGROUND

Unocal files suggest that a product line leak occurred in June 1976, and that one of the original underground gasoline storage tanks failed a precision test in October 1981. In December 1981, the two original steel gasoline storage tanks were replaced with two fiberglass gasoline storage tanks. Groundwater Monitoring Wells U-1 through U-3 and Borings U-A through U-E were installed in August 1993. Perimeter Wells U-4 through U-7 were installed in June 1995 to further delineate the extent of hydrocarbon impacted groundwater. Monthly groundwater monitoring and quarterly groundwater sampling of the wells was initiated in December 1993.

RECENT QUARTER ACTIVITIES

Quarterly groundwater monitoring and sampling were performed in December 1995. Alameda County Health Services submitted a letter requesting additional site assessment to further delineate hydrocarbon impacted groundwater in the southern portion of the site.

NEXT QUARTER ACTIVITIES

First quarter 1996 groundwater monitoring and sampling will be performed. Unocal will submit a site assessment work plan by January 20, 1996. Upon approval of the work plan by Alameda County, site assessment activities will be implemented.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? None encountered.
Dissolved groundwater delineated? No.
Free product delineated? Not applicable.
Amount of groundwater contaminant recovered this quarter? None
Soil remediation in progress? Not Applicable.
Anticipated start date? Not Applicable.
Anticipated completion date? Not Applicable.
Dissolved/free product remediation in progress? No.
Anticipated start? Unknown.
Anticipated completion? Unknown.

CONSULTANT: Pacific Environmental Group, Inc.

21 51 1-80

MPDS-UN5430-09
January 22, 1996

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

Attention: Mr. David J. Camille

RE: Quarterly Data Report
Unocal Service Station #5430
1935 Washington Avenue
San Leandro, California

Dear Mr. Camille:

This data report presents the results of the most recent quarter of monitoring and sampling of the monitoring wells at the referenced site by MPDS Services, Inc.

RECENT FIELD ACTIVITIES

The monitoring wells that were monitored and sampled during this quarter are indicated in Table 1. Prior to sampling, the wells were checked for depth to water and the presence of free product or sheen. The monitoring data and the ground water elevations are summarized in Table 1. The ground water flow direction during the most recent quarter is shown on the attached Figure 1.

Ground water samples were collected on December 14, 1995. Prior to sampling, the wells were each purged of between 5 and 6 gallons of water. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded and are presented in Table 2. Once the field parameters were observed to stabilize, and where possible, a minimum of approximately four casing volumes had been removed from each well, samples were then collected using a clean Teflon bailer. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. Trip blank, Equipment blank and Field blank samples (denoted as ES1, ES2 and ES3 respectively) were also collected for quality assurance and control. MPDS Services, Inc. transported the purged ground water to the Unocal Refinery located in Rodeo, California, for treatment and discharge to San Pablo Bay under NPDES permit.

ANALYTICAL RESULTS

The ground water samples were analyzed at Sequoia Analytical Laboratory and were accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected to

date are summarized in Tables 3 and 4. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene detected in the ground water samples collected this quarter are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

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.

DISTRIBUTION

A copy of this report should be sent to Mr. Scott Seery of the Alameda County Environmental Health Care Services, Mr. Michael Bakaldin of the San Leandro Fire Department.

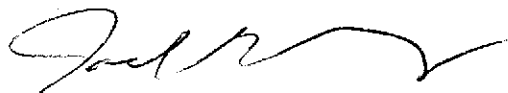
If you have any questions regarding this report, please do not hesitate to call Mr. Nubar Srabian at (510) 602-5120.

Sincerely,

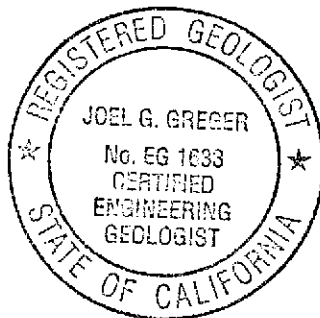
MPDS Services, Inc.



Haig (Gary) Tejirian
Senior Staff Geologist



Joel G. Greger, C.E.G.
Senior Engineering Geologist



License No. EG 1633
Exp. Date 8/31/96

/bp

Attachments: Tables 1 through 4
Location Map
Figures 1 & 2
Laboratory Analyses
Chain of Custody documentation

cc: Mr. Joe Muzzio, Pacific Environmental Group, Inc.

TABLE 1

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)◆</u>	<u>Total Well Depth (feet)◆</u>	<u>Product Thickness (feet)</u>	<u>Sheen</u>	<u>Water Purged (gallons)</u>
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(Monitored and Sampled on December 14, 1995)

U-1	23.89	32.20	39.66	0	No	5.5
U-2	24.19	31.10	39.40	0	No	6
U-3	24.21	31.02	38.61	0	No	5.5
U-4	24.16	31.23	39.20	0	No	6
U-5	24.24	29.94	38.74	0	No	6
U-6	24.04	31.32	40.09	0	No	6
U-7	24.30	30.75	37.90	0	No	5

(Monitored and Sampled on September 18, 1995)

U-1	25.44	30.65	39.66	0	No	6.5
U-2	25.64	29.65	39.40	0	No	7
U-3	25.68	29.55	38.61	0	No	6.5
U-4	25.60	29.79	39.20	0	No	6.5
U-5	25.63	28.55	38.76	0	No	7.5
U-6	25.41	29.95	40.12	0	No	7
U-7	25.84	29.21	37.91	0	No	6

(Monitored and Sampled on June 20, 1995)

U-1	27.89	28.20	39.62	0	No	8
U-2	28.55	26.74	36.40	0	No	9
U-3	28.53	26.70	38.57	0	No	8.5
U-4	28.49	26.90	39.17	0	No	8.5
U-5	28.58	25.60	38.80	0	No	9
U-6	28.21	27.15	40.10	0	No	9
U-7	28.67	26.38	37.95	0	No	8

TABLE 1 (Continued)

SUMMARY OF MONITORING DATA

<u>Well #</u>	<u>Ground Water Elevation (feet)</u>	<u>Depth to Water (feet)◆</u>	<u>Total Well Depth (feet)◆</u>	<u>Product Thickness (feet)</u>	<u>Sheen</u>	<u>Water Purged (gallons)</u>
(Monitored and Sampled on March 14, 1995)						
U-1	28.23	27.86	39.70	0	No	8.5
U-2	28.93	26.36	39.40	0	No	9
U-3	29.79	25.44	38.62	0	No	9
U-4	28.87	26.52	39.42	0	No	9
U-5	28.98	25.20	39.22	0	No	10
U-6	28.42	26.94	40.22	0	No	9.5
U-7	28.92	26.13	38.00	0	No	8.5

<u>Well #</u>	<u>Well Casing Elevation (feet)*</u>
U-1	56.09
U-2	55.29
U-3	55.23
U-4	55.39
U-5	54.18
U-6	55.36
U-7	55.05

◆ The depth to water level and total well depth measurements were taken from the top of the well casings.

* The elevation of the top of the well casings were resurveyed on March 1995, based on benchmark provided by City of San Leandro, City Engineers Office, Datum 1929, USGS adjusted.

TABLE 2

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND pH VALUES
 IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on December 14, 1995)

<u>Well #</u>	<u>Gallons per Casing Volume</u>	<u>Time</u>	<u>Gallons Purged</u>	<u>Casing Volumes Purged</u>	<u>Temperature (°F)</u>	<u>Conductivity ([μmhos/cm] x100)</u>	<u>pH</u>
U-1	1.27	13:15	0	0	59.3	10.63	6.76
			1.25	0.98	61.9	10.71	6.62
			2.50	1.97	61.2	10.80	6.54
			3.75	2.95	64.7	11.19	6.50
			5.50	4.33	65.3	11.60	6.44
U-2	1.41	09:35	0	0	58.1	7.51	6.57
			1.5	1.06	61.2	7.86	6.51
			3	2.13	62.3	8.07	6.45
			4.5	3.19	62.4	8.16	6.47
			6	4.26	62.8	8.22	6.45
U-3	1.29	15:10	0	0	66.6	13.32	6.63
			1.25	0.97	65.4	13.34	6.27
			2.50	1.94	65.6	13.02	6.15
			3.75	2.91	65.5	12.86	6.15
			5.50	4.26	65.4	12.64	6.15
U-4	1.35	10:20	0	0	57.6	8.77	6.94
			1.5	1.11	60.3	8.92	6.75
			3	2.22	61.3	9.02	6.62
			4.5	3.33	61.6	9.31	6.65
			6	4.44	61.8	9.21	6.54

TABLE 2 (Continued)

RECORD OF THE TEMPERATURE, CONDUCTIVITY, AND pH VALUES
 IN THE MONITORING WELLS DURING PURGING AND PRIOR TO SAMPLING

(Measured on December 14, 1995)

<u>Well #</u>	<u>Gallons per Casing Volume</u>	<u>Time</u>	<u>Gallons Purged</u>	<u>Casing Volumes Purged</u>	<u>Temper- ature (°F)</u>	<u>Conductivity ([μmhos/cm] x100)</u>	<u>pH</u>
U-5	1.50	12:20	0	0	54.9	6.80	7.15
			1.5	1.00	61.9	7.09	6.92
			3	2.00	62.3	7.27	6.78
			4.5	3.00	63.4	7.25	6.75
			6	4.00	63.9	7.44	6.68
U-6	1.49	14:20	0	0	64.8	14.38	7.14
			1.5	1.01	65.2	13.99	6.59
			3	2.01	65.4	13.88	6.35
			4.5	3.02	65.4	14.13	6.29
			6	4.03	65.8	13.67	6.17
U-7	1.22	11:20	0	0	59.8	7.35	7.16
			1.25	1.02	62.3	7.52	6.96
			2.50	2.05	62.4	7.76	6.64
			3.75	3.07	62.5	7.70	6.63
			5	4.10	62.9	8.00	6.65

TABLE 3

SUMMARY OF LABORATORY ANALYSES
 WATER

ug/l

Date	Well#	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
12/14/95	U-1	ND	ND	0.072	1.4	1.2	3.6
9/18/95	U-1▼	72	57	1.2	0.75	0.57	2.2
6/20/95	U-1	170**	500	50	ND	ND	4.4
3/14/95	U-1	71**	380	20	ND	ND	10
12/06/94	U-1▲	ND	ND	ND	ND	ND	ND
9/15/94	U-1▲	83**	ND	0.50	0.85	ND	0.77
6/19/94	U-1▲	61**	51	ND	1.4	ND	2.7
3/25/94	U-1▲	57**	58	0.63	0.79	ND	0.65
12/16/93	U-1▲	130**	ND	ND	ND	ND	ND
8/13/93	U-1▲	50*	310	0.84	ND	2.6	1
12/14/95	U-2▼▼	--	ND	ND	0.89	ND	2.0
9/18/95	U-2▼	--	ND	ND	ND	ND	0.85
6/20/95	U-2	--	ND	ND	0.58	ND	1.7
3/14/95	U-2	--	89	ND	ND	ND	1.2
12/06/94	U-2	--	250	19	ND	ND	ND
9/15/94	U-2	--	1,000◆◆	44	ND	ND	ND
6/19/94	U-2	--	180◆	ND	ND	ND	0.86
3/25/94	U-2	--	130	0.70	0.78	0.65	0.64
12/16/93	U-2	--	330	1.7	ND	11	8.5
8/13/93	U-2	--	1,400	ND	ND	ND	ND
12/14/95	U-3▼▼	--	10,000	520	ND	920	630
9/18/95	U-3▼	--	9,800	600	ND	1,000	760
6/20/95	U-3	--	9,800	590	ND	800	1,000
3/14/95	U-3	--	13,000	860	120	1,300	1,700
12/06/94	U-3	--	17,000	390	ND	990	560
9/15/94	U-3	--	12,000	370	ND	970	610
6/19/94	U-3	--	17,000	580	ND	1,300	90
3/25/94	U-3	--	18,000	560	40	1,000	770
12/16/93	U-3	--	15,000	570	ND	940	670
8/13/93	U-3	--	23,000	1,000	ND	1,700	1,600

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
 WATER

<u>Date</u>	<u>Well#</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-benzene</u>	<u>Xylenes</u>
12/14/95	U-4▼▼	--	ND	ND	0.59	ND	0.79
9/18/95	U-4▼	--	ND	ND	ND	ND	ND
6/20/95	U-4	--	ND	ND	ND	ND	1.5
3/14/95	U-4	--	490	3.2	2.1	0.79	1.2
12/14/95	U-5	--	ND	ND	ND	ND	ND
9/18/95	U-5	--	ND	ND	ND	ND	0.66
6/20/95	U-5	--	ND	ND	ND	ND	1.6
3/14/95	U-5	--	ND	ND	ND	ND	1.2
12/14/95	U-6▼▼	--	15,000	240	ND	1,400	1,700
9/18/95	U-6▼	--	9,500	260	ND	1,400	1,800
6/20/95	U-6	--	8,500	170	11	950	1,300
3/14/95	U-6	--	14,000	170	36	790	1,500
12/14/95	U-7	--	ND	ND	ND	ND	0.88
9/18/95	U-7	--	ND	ND	ND	ND	ND
6/20/95	U-7	--	ND	ND	ND	ND	ND
3/14/95	U-7	--	ND	ND	ND	ND	ND

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
WATER

- ▼ Sequoia Analytical Laboratory has potentially identified the presence of MTBE at reportable levels in the ground water sample collected from this well.
- ▼▼ Sequoia Analytical Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 µg/L in the sample collected from this well.
- ▲ Total Oil and Grease was non-detectable.
- ◆ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- ◆◆ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.
- * Not a typical diesel pattern; lower boiling hydrocarbons in the boiling range of stoddard calculated as diesel.
- ** Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.

ND = Non-detectable.

-- Indicates analysis was not performed.

Results are in micrograms per liter (µg/L), unless otherwise indicated.

Note: Laboratory analyses data prior to December 16, 1993, were provided by Pacific Environmental Group, Inc.

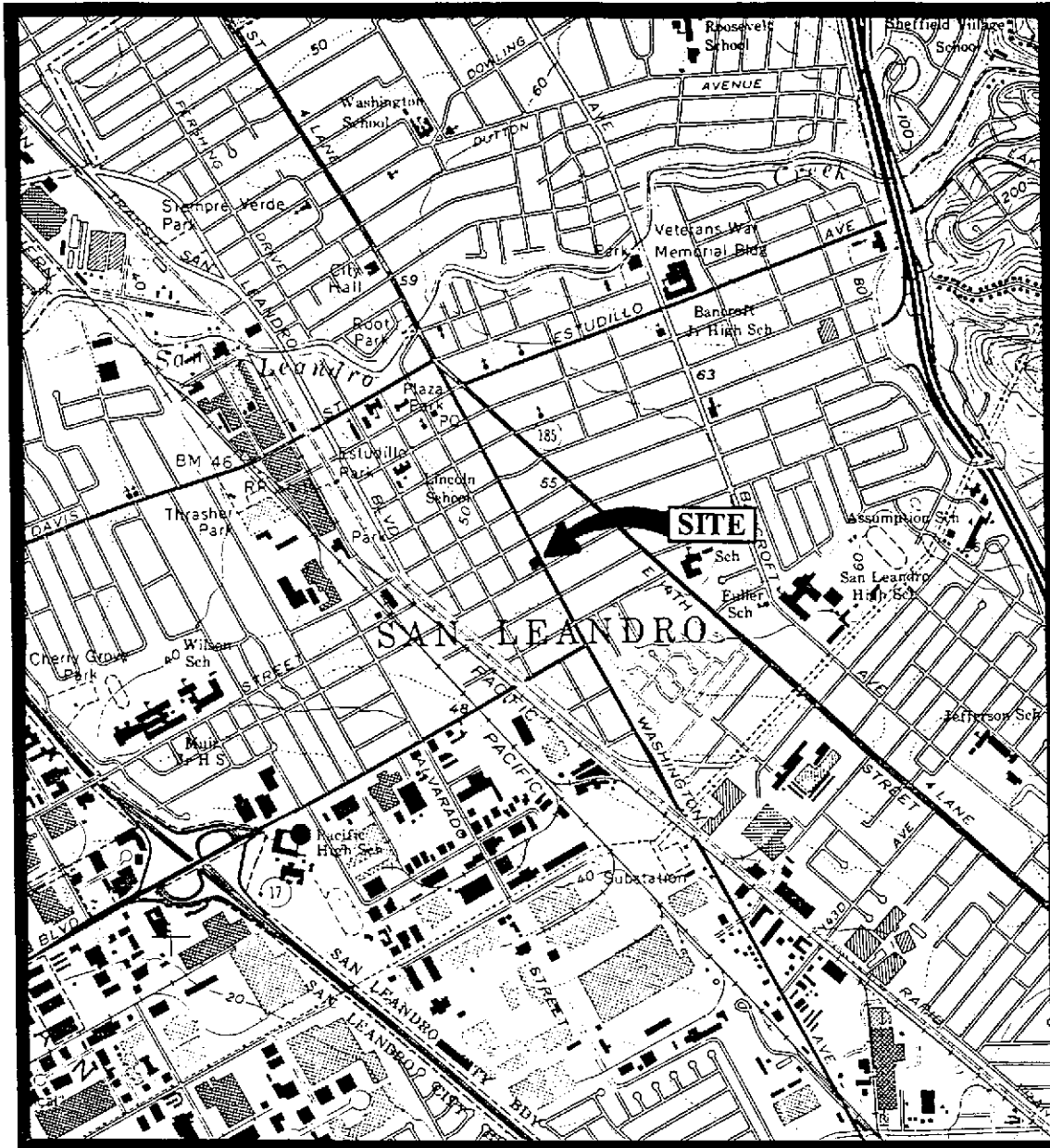
TABLE 4
 SUMMARY OF LABORATORY ANALYSES
 WATER

<u>Date</u>	<u>Well #</u>	<u>1,2-Dichloro- benzene</u>	<u>1,2-Dichloro- ethane</u>
12/14/95	U-1	ND	3.8
12/06/94	U-1	ND	5.8
9/15/94	U-1	ND	9.5
6/19/94	U-1	ND	7.4
12/14/95	U-2	ND	ND
3/25/94	U-2	ND	11
12/06/94	U-2	ND	ND
9/15/94	U-2	ND	0.66
6/19/94	U-2	ND	0.54
3/25/94	U-2	ND	ND
12/14/95	U-3	ND	240
12/06/94	U-3	ND	430
9/15/94	U-3	ND	420
6/19/94	U-3	ND	410
3/25/94	U-3	ND	480
12/14/95	U-4	ND	ND
3/14/95	U-4	ND	ND
12/14/95	U-5	ND	ND
3/14/95	U-5	ND	ND
12/14/95	U-6	ND	370
3/14/95	U-6	ND	210
12/14/95	U-7	ND	ND
3/14/95	U-7	ND	ND

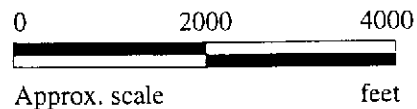
ND = Non-detectable.

Results are in micrograms per liter ($\mu\text{g/L}$), unless otherwise indicated.

Note: All EPA method 8010 constituents were non-detectable, except as indicated above.



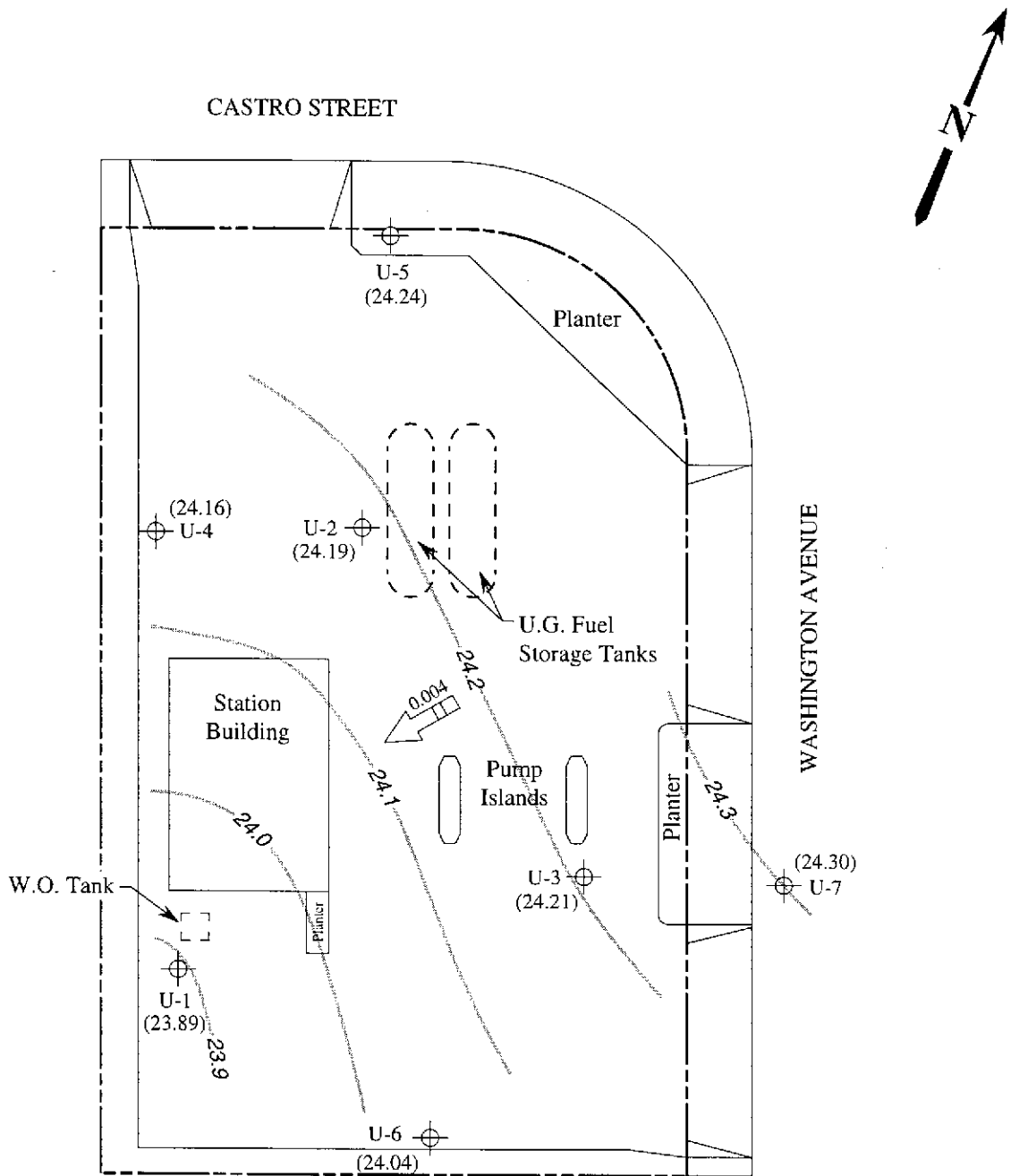
Base modified from 7.5 minute U.S.G.S. San Leandro Quadrangle
(photorevised 1980)



mpds SERVICES, INCORPORATED

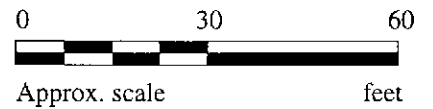
**UNOCAL SERVICE STATION #5430
1935 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA**

**LOCATION
MAP**



LEGEND

- ⊕ Monitoring well
- () Ground water elevation in feet above Mean Sea Level
- #.#.# → Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation

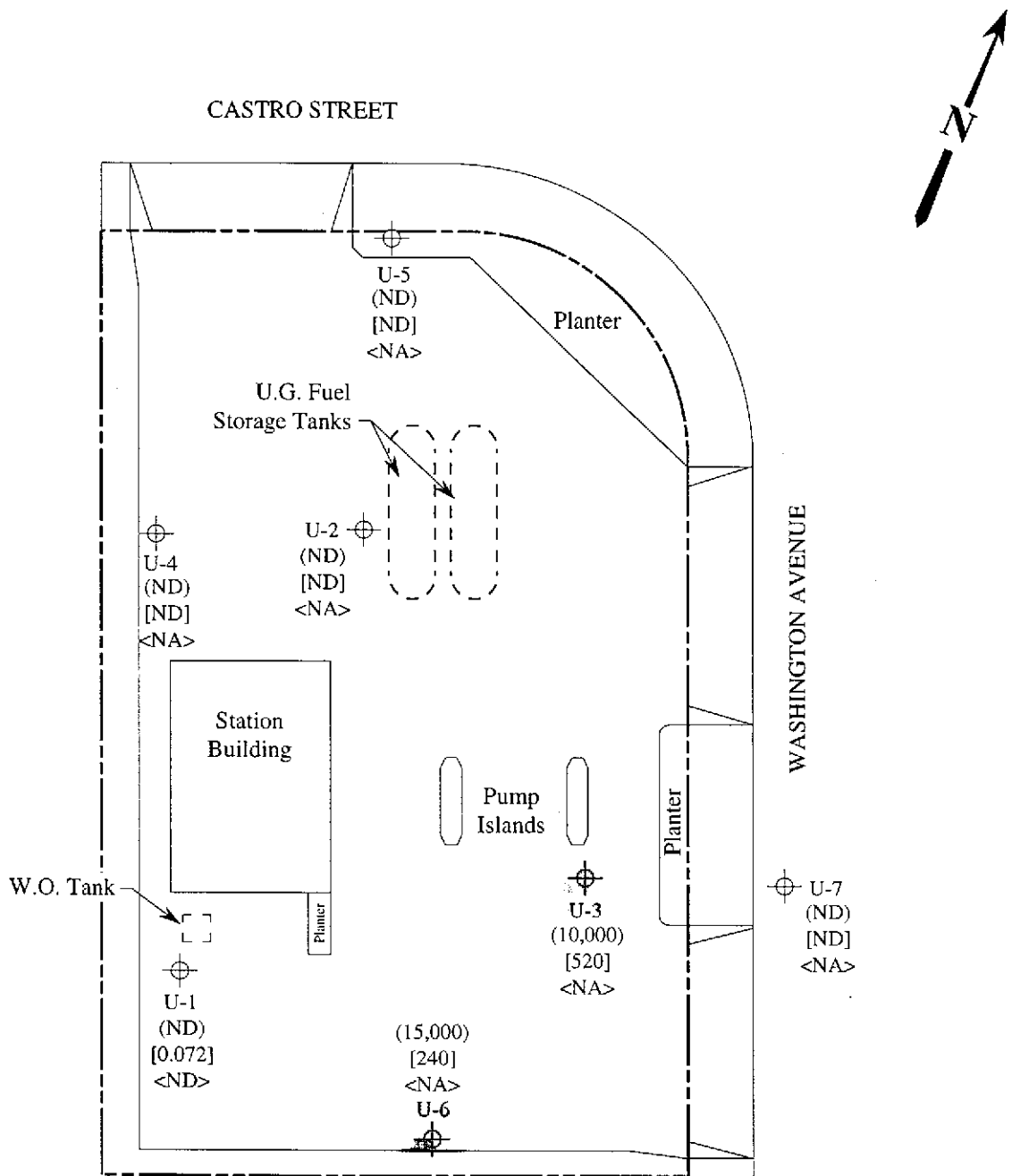


POTENTIOMETRIC SURFACE MAP FOR THE DECEMBER 14, 1995 MONITORING EVENT



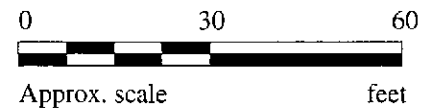
**UNOCAL SERVICE STATION #5430
1935 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA**

**FIGURE
1**



LEGEND

- ⊕ Monitoring well
- () Concentration of TPH as gasoline in µg/L
- [] Concentration of benzene in µg/L
- < > Concentration of TPH as diesel in µg/L
- ND Non-detectable



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON DECEMBER 14, 1995



**UNOCAL SERVICE STATION #5430
1935 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA**

**FIGURE
2**



MPDS Services	Client Project ID: Unocal #5430, 1935 Washington Ave.,	Sampled: Dec 14, 1995
2401 Stanwell Dr., Ste. 300	Matrix Descript: Water San Leandro	Received: Dec 14, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8015 Mod./8020	Reported: Jan 13, 1996
Attention: Jarrel Crider	First Sample #: 512-1520	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Sample Number	Sample Description	Purgeable Hydrocarbons µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L
512-1520	U1	ND	0.72	1.4	1.2	3.6
512-1521	U2	ND	ND	0.89	ND	2.0
512-1522	U3	10,000	520	ND	920	630
512-1523	U4	ND	ND	0.59	ND	0.79
512-1524	U5	ND	ND	ND	ND	0.96
512-1525	U6	15,000	240	ND	1,400	1,700
512-1526	U7	ND	ND	ND	ND	0.88
512-1527	ES1	ND	ND	ND	ND	ND
512-1528	ES2	ND	ND	ND	ND	ND
512-1529	ES3	ND	ND	ND	ND	ND

Detection Limits:	50	0.50	0.50	0.50	0.50
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Total Purgeable Petroleum Hydrocarbons are quantitated against a fresh gasoline standard.
 Analytes reported as ND were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
 Project Manager





MPDS Services	Client Project ID: Unocal #5430, 1935 Washington Ave.,	Sampled: Dec 14, 1995
2401 Stanwell Dr., Ste. 300	Sample Matrix: Water	Received: Dec 14, 1995
Concord, CA 94520	Analysis Method: EPA 3510/8015 Mod.	Reported: Jan 13, 1996
Attention: Jarrel Crider	First Sample #: 512-1520	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 512-1520 U1
Extractable Hydrocarbons	50	N.D.

Chromatogram Pattern: --

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	12/21/95
Date Analyzed:	12/22/95
Instrument Identification:	HP-3B

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services	Client Project ID: Unocal #5430, 1935 Washington Ave.,	Sampled: Dec 14, 1995
2401 Stanwell Dr., Ste. 300	Sample Descript: Water, U1 San Leandro	Received: Dec 14, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8010	Analyzed: Dec 26, 1995
Attention: Jarrel Crider	Lab Number: 512-1520	Reported: Jan 13, 1996

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	3.8
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, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services	Client Project ID: Unocal #5430, 1935 Washington Ave.,	Sampled: Dec 14, 1995
2401 Stanwell Dr., Ste. 300	Sample Descript: Water, U2 San Leandro	Received: Dec 14, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8010	Analyzed: Dec 26, 1995
Attention: Jarrel Crider	Lab Number: 512-1521	Reported: Jan 13, 1996

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, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5430, 1935 Washington Ave.,
Sample Descript: Water, U3 San Leandro
Analysis Method: EPA 5030/8010
Lab Number: 512-1522

Sampled: Dec 14, 1995
Received: Dec 14, 1995
Analyzed: Dec 27-28, 1995
Reported: Jan 13, 1996

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	100	N.D.
Bromoform.....	100	N.D.
Bromomethane.....	200	N.D.
Carbon tetrachloride.....	100	N.D.
Chlorobenzene.....	100	N.D.
Chloroethane.....	200	N.D.
2-Chloroethylvinyl ether.....	200	N.D.
Chloroform.....	100	N.D.
Chloromethane.....	200	N.D.
Dibromochloromethane.....	100	N.D.
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,2-Dichlorobenzene.....	100	N.D.
1,1-Dichloroethane.....	100	N.D.
1,2-Dichloroethane.....	100	240
1,1-Dichloroethene.....	100	N.D.
cis-1,2-Dichloroethene.....	100	N.D.
trans-1,2-Dichloroethene.....	100	N.D.
1,2-Dichloropropane.....	100	N.D.
cis-1,3-Dichloropropene.....	100	N.D.
trans-1,3-Dichloropropene.....	100	N.D.
Methylene chloride.....	1,000	N.D.
1,1,2,2-Tetrachloroethane.....	100	N.D.
Tetrachloroethene.....	100	N.D.
1,1,1-Trichloroethane.....	100	N.D.
1,1,2-Trichloroethane.....	100	N.D.
Trichloroethene.....	100	N.D.
Trichlorofluoromethane.....	100	N.D.
Vinyl chloride.....	200	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5430, 1935 Washington Ave.,
Sample Descript: Water, U4 San Leandro
Analysis Method: EPA 5030/8010
Lab Number: 512-1523

Sampled: Dec 14, 1995
Received: Dec 14, 1995
Analyzed: Dec 27, 1995
Reported: Jan 13, 1996

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, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5430, 1935 Washington Ave.,
Sample Descript: Water, U5 San Leandro
Analysis Method: EPA 5030/8010
Lab Number: 512-1524

Sampled: Dec 14, 1995
Received: Dec 14, 1995
Analyzed: Dec 27, 1995
Reported: Jan 13, 1996

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, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services	Client Project ID: Unocal #5430, 1935 Washington Ave.,	Sampled: Dec 14, 1995
2401 Stanwell Dr., Ste. 300	Sample Descript: Water, U6 San Leandro	Received: Dec 14, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8010	Analyzed: Dec 27-28, 1995
Attention: Jarrel Crider	Lab Number: 512-1525	Reported: Jan 13, 1996

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/L	Sample Results µg/L
Bromodichloromethane.....	10	N.D.
Bromoform.....	10	N.D.
Bromomethane.....	20	N.D.
Carbon tetrachloride.....	10	N.D.
Chlorobenzene.....	10	N.D.
Chloroethane.....	20	N.D.
2-Chloroethylvinyl ether.....	20	N.D.
Chloroform.....	10	N.D.
Chloromethane.....	20	N.D.
Dibromochloromethane.....	10	N.D.
1,3-Dichlorobenzene.....	10	N.D.
1,4-Dichlorobenzene.....	10	N.D.
1,2-Dichlorobenzene.....	10	N.D.
1,1-Dichloroethane.....	10	N.D.
1,2-Dichloroethane.....	10	370
1,1-Dichloroethene.....	10	N.D.
cis-1,2-Dichloroethene.....	10	N.D.
trans-1,2-Dichloroethene.....	10	N.D.
1,2-Dichloropropane.....	10	N.D.
cis-1,3-Dichloropropene.....	10	N.D.
trans-1,3-Dichloropropene.....	10	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	10	N.D.
Tetrachloroethene.....	10	N.D.
1,1,1-Trichloroethane.....	10	N.D.
1,1,2-Trichloroethane.....	10	N.D.
Trichloroethene.....	10	N.D.
Trichlorofluoromethane.....	10	N.D.
Vinyl chloride.....	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services	Client Project ID: Unocal #5430, 1935 Washington Ave.,	Sampled: Dec 14, 1995
2401 Stanwell Dr., Ste. 300	Sample Descript: Water, U7	Received: Dec 14, 1995
Concord, CA 94520	Analysis Method: EPA 5030/8010	Analyzed: Dec 27, 1995
Attention: Jarrel Crider	Lab Number: 512-1526	Reported: Jan 13, 1996

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, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services Client Project ID: Unocal #5430, 1935 Washington Ave., San Leandro
 2401 Stanwell Dr., Ste. 300 Matrix: Liquid
 Concord, CA 94520
 Attention: Jarrel Crider QC Sample Group: 5121520-529 Reported: Jan 13, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015
Analyst:	N. Beaman	N. Beaman	N. Beaman	N. Beaman	J. Dinsay

MS/MSD	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel
Batch#:	5121908	5121908	5121908	5121908	BLK122195
Date Prepared:	12/28/95	12/28/95	12/28/95	12/28/95	12/21/95
Date Analyzed:	12/28/95	12/28/95	12/28/95	12/28/95	12/22/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	GCHP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L
Matrix Spike % Recovery:	105	110	110	108	97
Matrix Spike Duplicate % Recovery:	95	100	100	102	80
Relative % Difference:	10	9.5	9.5	6.3	19

LCS Batch#:	2LCS122895	2LCS122895	2LCS122895	2LCS122895	LCS122195
Date Prepared:	12/28/95	12/28/95	12/28/95	12/28/95	12/21/95
Date Analyzed:	12/28/95	12/28/95	12/28/95	12/28/95	12/22/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	GCHP-3A
LCS % Recovery:	95	100	100	98	90

% Recovery Control Limits:	71-133	72-128	72-130	71-120	38-122
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Please Note:
 The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271

Signature on File
 Alan B. Kemp
 Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5430, 1935 Washington Ave., San Leandro
Matrix: Liquid

QC Sample Group: 512-1520

Reported: Jan 13, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	N. Beaman	N. Beaman	N. Beaman	N. Beaman

MS/MSD Batch#:	5121300	5121300	5121300	5121300
Date Prepared:	12/27/95	12/27/95	12/27/95	12/27/95
Date Analyzed:	12/27/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Matrix Spike % Recovery:	90	90	85	87
Matrix Spike Duplicate % Recovery:	85	85	90	93
Relative % Difference:	5.7	5.7	5.7	7.4

LCS Batch#:	3LCS122795	3LCS122795	3LCS122795	3LCS122795
Date Prepared:	12/27/95	12/27/95	12/27/95	12/27/95
Date Analyzed:	12/27/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	90	90	90	92

% Recovery Control Limits:	71-133	72-128	72-130	71-120
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Please Note:

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5430, 1935 Washington Ave., San Leandro
Matrix: Liquid

QC Sample Group: 5121520-529

Reported: Jan 13, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010	EPA 8010
Analyst:	I.Z.	I.Z.	I.Z.	I.Z.	I.Z.	I.Z.

MS/MSD Batch#:	5121244	5121244	5121244	5121521	5121521	5121521
Date Prepared:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Date Analyzed:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L	10 µg/L
Matrix Spike % Recovery:	119	104	97	136	109	93
Matrix Spike Duplicate % Recovery:	122	95	92	135	102	94
Relative % Difference:	2.5	9.0	5.3	0.74	6.6	1.1

LCS Batch#:	LCS122695	LCS122695	LCS122695	LCS122795	LCS122795	LCS122795
Date Prepared:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Date Analyzed:	12/26/95	12/26/95	12/26/95	12/27/95	12/27/95	12/27/95
Instrument I.D.#:	HP-7	HP-7	HP-7	HP-7	HP-7	HP-7
LCS % Recovery:	117	90	91	103	86	85

% Recovery Control Limits:	28-167	35-146	38-150	28-167	35-146	38-150
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Please Note:

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





MPDS Services
2401 Stanwell Dr., Ste. 300
Concord, CA 94520
Attention: Jarrel Crider

Client Project ID: Unocal #5430, 1935 Washington Ave., San Leandro
Matrix: Liquid

QC Sample Group: 5121520-529

Reported: Jan 13, 1996

QUALITY CONTROL DATA REPORT

ANALYTE	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-benzene
Method:	EPA 8010	EPA 8010	EPA 8010
Analyst:	I.Z.	I.Z.	I.Z.

MS/MSD Batch#:	5121926	5121926	5121926
Date Prepared:	12/28/95	12/28/95	12/28/95
Date Analyzed:	12/28/95	12/28/95	12/28/95
Instrument I.D.#:	HP-7	HP-7	HP-7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L
Matrix Spike % Recovery:	123	101	93
Matrix Spike Duplicate % Recovery:	114	93	89
Relative % Difference:	7.6	8.2	4.4

LCS Batch#:	LCS122895	LCS122895	LCS122895
Date Prepared:	12/28/95	12/28/95	12/28/95
Date Analyzed:	12/28/95	12/28/95	12/28/95
Instrument I.D.#:	HP-7	HP-7	HP-7
LCS % Recovery:	122	93	91

% Recovery Control Limits:	28-167	35-146	38-150
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Please Note:

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

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
Project Manager





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

MPDS Services
2401 Stanwell Dr., Ste. 300
Concord CA 94520
Attention: Jarrel Crider

Date: 1/16/96

Sequoia Analytical has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 µg/L in the following site(s):

Client Project I.D. - **Unocal #5340 - San Leandro**

Sequoia Work Order # - **9512348**

Sample Number:

Sample Description:

5121521
5121522
5121523
5121525

U2
U3
U4
U6

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp
Project Manager



CHAIN OF CUSTODY

02-18-95

5430

SAMPLER			UNOCAL					ANALYSES REQUESTED							TURN AROUND TIME:		
RAY MARANGOSIAN			S/S # <u>5340</u> CITY: <u>SAN LEANARDO</u>					TPH-GAS BTEX	TPH- DIESEL	TOG	8010						REGULAR
WITNESSING AGENCY			ADDRESS: <u>1935 Washington Ave</u>														
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION										
* U1	12.14.95	13:55	x	Y		5	Well	X	X		X						AE
* U2	"	10:00	x	x		4	"	X			X						AD
* U3	"	15:40	x	r		4	"	X			X						
* U4	"	10:45	x	x		4	"	X			X						
* U5	"	12:45	x	r		4	"	X			X						
* U6	"	14:45	x	x		4	"	X			X						
* U7	"	11:45	x	x		4	"	X			X						

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:
Ray Marangosian	12-14-95	[Signature]	12/14/95	1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>yes</u>
[Signature]	12-15-95	[Signature]	1330	2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>yes</u>
[Signature]	1330	[Signature]	12-15	3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>no</u>
[Signature]	12-15	Ken Melander	15:00	4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>yes</u>
[Signature]		[Signature]	12-15-95	SIGNATURE: [Signature] TITLE: <u>Regulator</u> DATE: <u>12/14/95</u>

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HNO3. All other containers are unpreserved.

CHAIN OF CUSTODY

06/12/98

SAMPLER RAY MARANGOSIAN			UNOCAL S/S # <u>5340</u> CITY: <u>SAN LEANARD</u>				ANALYSES REQUESTED							TURN AROUND TIME: REGULAR		
WITNESSING AGENCY			ADDRESS: <u>1935 Washington Ave</u>				TPH-GAS	BTEX	TPH-DIESEL	TOG	8010					REMARKS
SAMPLE ID NO.	DATE	TIME	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH-GAS	BTEX	TPH-DIESEL	TOG	8010				
ES1	12-14-95		X	P		1		X							5121527	
ES2	4		X	P		1		X							5121528	
ES3	4		X	P		1		X							5121529	
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:			DATE/TIME		THE FOLLOWING <u>MUST BE</u> COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:							
<i>Ray Marangosian</i>		12-14-95		<i>[Signature]</i>			12/14/95 1635		1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>yes</u>							
<i>[Signature]</i>		12/15/95 1330		<i>[Signature]</i>					2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>yes</u>							
<i>[Signature]</i>		12-15		<i>Kevin Anderson</i>			15:00 12-15-95		3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>no</u>							
<i>[Signature]</i>				<i>[Signature]</i>					4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>yes</u>							
<i>[Signature]</i>				<i>[Signature]</i>					SIGNATURE: <i>[Signature]</i> TITLE: <u>Regulator</u> DATE: <u>12/14/95</u>							

Note: All water containers to be sampled for TPHG/BTEX, 8010 & 8240 are preserved with HCL. All water containers to be sampled for Lead or Metals are preserved with HNO3. All other containers are unpreserved.