

Unocal Corporation
Diversified Businesses
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583
Telephone (510) 867-0760
Facsimile (510) 277-2309

ENVIRONMENTAL
PROTECTION
96 OCT 24 PM 2:03

UNOCAL 76

October 23, 1996

Mr. Dale Klettke
Alameda County Env. Health Services
1131 Harbor Bay Pkwy., #250
Alameda, CA 94502-6577

Unocal Station #5430
1935 Washington Avenue
San Leandro, California

West Region
Environmental Remediation Services

STD
1747

Dear Mr. Klettke:

Attached is a copy of the most recent Quarterly Groundwater Monitoring report dated October 2, 1996 for your review. Based on consistent analytical results and groundwater gradients over the last three years, Unocal is proposing that the groundwater monitoring frequency be reduced to semi annually from quarterly. A concurrence letter or call from your office would be appreciated.

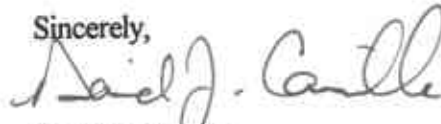
As you are aware, Unocal has proposed to fully delineate the extent of soil and groundwater contamination. Unfortunately, the adjacent property owners have not allowed Unocal access to perform the necessary investigation. Your assistance is formally requested to help obtain access to both properties. The property owners are as follows :

For GP2-4 : Mr. Fred Kohne
P.O. Box 581
Sunol, CA 94586

For GP1 : Ms. Ginger Porrill, President
Cypress Manor Condominium
Homeowners' Association
249 Castro Street
San Leandro, CA 94577

Any assistance you can provide will be greatly appreciated. If you have any questions, concerns or need additional information, please call me at (510) 277-2335.

Sincerely,



David J. Canille
Senior Environmental Engineer

attachments

cc: Josie Alvarez
Barbara Mise
Joe Muzzio, PEG w/o
File SS#5430 : 3



PACIFIC
ENVIRONMENTAL
GROUP, INC.

STD
1747

July 19, 1996
Project 310-038.1D

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
Second Quarter 1996

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:

| <u>Service Station</u> | <u>Location</u> |
|------------------------|-------------------------------------|
| 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

96 JUL 18 PM 3:45
ENVIRONMENTAL
PROTECTION

Quarterly Summary Report Second Quarter 1996

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. Alameda County Health Services submitted a request for further delineation of hydrocarbon impacted groundwater in the southern portion of the site. A work plan was submitted by Unocal in January 1996. Unocal investigated former usage of the site located south of the Unocal site. The review found that the adjacent site was formerly a service station which included four USTs. Unocal proceeded with access agreement negotiations to install borings on properties south and west of the facility.

RECENT QUARTER ACTIVITIES

Quarterly groundwater monitoring and sampling were performed in June 1996.

NEXT QUARTER ACTIVITIES

Third quarter 1996 groundwater monitoring and sampling will be performed, and a summary report will be submitted. Unocal will implement offsite investigations upon receipt of signed access agreements from the adjacent property owners.

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.

MPDS-UN5430-12
October 2, 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 September 6, 1996. Prior to sampling, the wells were each purged of between 4.5 and 7.5 gallons of water. During purging operations, the field parameters pH, temperature, and electrical conductivity were recorded on the purging/sampling data sheets which are attached to this report. 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. Field blank, Equipment blank, and Trip 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 2 and 3. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene detected in the ground water samples

MPDS-UN5430-12

October 2, 1996

Page 2

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, and Mr. Michael Bakaldin of the San Leandro Fire Department.

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

Sincerely,

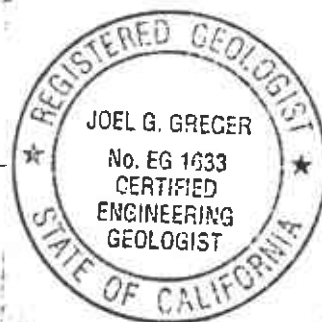
MPDS Services, Inc.



Haig (Gary) Tejirian
Senior Staff Geologist



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



License No. EG 1633
Exp. Date 8/31/98

Attachments: Tables 1, 2 & 3
 Location Map
 Figures 1 & 2
 Laboratory Analyses
 Chain of Custody documentation
 Purging/Sampling Data Sheets

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

CASTRO STREET



291

277

265

RESIDENTIAL

CYPRESS
MANOR
CONDOMINIUMS

WASTE OIL TANK

CARPORT

GP1

GINGER PORRILL

CARPORT

CAR WASH

DRIVEWAY

PLANTER

STATION
BUILDING

UNDERGROUND FUEL
STORAGE TANKS

U-4

U-2

U-E

U-D

U-B

U-C

U-A

U-3

PRODUCT ISLANDS

U-7

U-5

PLANTER

PARKING LOT

GP3

FRED KOHNE

GP2

GP4

APPROACH

APPROACH

APPROACH

APPROACH

WASHINGTON AVENUE

SIDEWALK

AUTO SERVICE
PARKING LOT

AUTO SERVICE

AUTO SERVICE

RESIDENCE

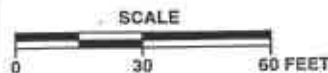
1904
THE MUTT HUTT

LEGEND

- U-2 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- U-C ● SOIL BORING LOCATION AND DESIGNATION
- ⊕ PROPOSED SOIL AND GROUNDWATER SAMPLING PROBE



PACIFIC
ENVIRONMENTAL
GROUP, INC.



UNOCAL SERVICE STATION 5430
1935 Washington Avenue at Castro Street
San Leandro, California

EXTENDED SITE MAP

FIGURE:
1
PROJECT:
310-038.1D

TPH benzene hits

Table 1
Summary of Monitoring Data

| Well # | Ground Water Elevation (feet) | Depth to Water (feet) † | Total Well Depth (feet) † | Product Thickness (feet) | Seen | Water Purged (gallons) |
|--------|-------------------------------------|-------------------------------|---------------------------------|--------------------------------|------|------------------------------|
|--------|-------------------------------------|-------------------------------|---------------------------------|--------------------------------|------|------------------------------|

(Monitored and Sampled on September 6, 1996)

| | | | | | | |
|-----|-------|-------|-------|---|----|-----|
| U-1 | 25.84 | 30.25 | 39.62 | 0 | No | 4.5 |
| U-2 | 26.11 | 29.18 | 39.28 | 0 | No | 7 |
| U-3 | 26.17 | 29.06 | 38.54 | 0 | No | 6.5 |
| U-4 | 26.07 | 29.32 | 39.08 | 0 | No | 7 |
| U-5 | 26.12 | 28.06 | 38.56 | 0 | No | 7.5 |
| U-6 | 25.95 | 29.41 | 40.02 | 0 | No | 7.5 |
| U-7 | 26.30 | 28.75 | 37.77 | 0 | No | 6.5 |

(Monitored and Sampled on June 4, 1996)

| | | | | | | |
|-----|-------|-------|-------|---|----|-----|
| U-1 | 28.66 | 27.43 | 39.62 | 0 | No | 8.5 |
| U-2 | 29.26 | 26.03 | 39.35 | 0 | No | 9.5 |
| U-3 | 29.23 | 26.00 | 38.54 | 0 | No | 9.5 |
| U-4 | 29.20 | 26.19 | 39.08 | 0 | No | 9 |
| U-5 | 29.27 | 24.91 | 38.58 | 0 | No | 9.5 |
| U-6 | 28.84 | 26.52 | 40.03 | 0 | No | 9.5 |
| U-7 | 29.38 | 25.67 | 37.75 | 0 | No | 8.5 |

(Monitored and Sampled on March 6, 1996)

| | | | | | | |
|-----|-------|-------|-------|---|----|-----|
| U-1 | 29.56 | 26.53 | 39.63 | 0 | No | 6 |
| U-2 | 30.12 | 25.17 | 39.30 | 0 | No | 10 |
| U-3 | 29.98 | 25.25 | 38.57 | 0 | No | 9.5 |
| U-4 | 30.09 | 25.30 | 39.10 | 0 | No | 9.5 |
| U-5 | 30.15 | 24.03 | 38.65 | 0 | No | 10 |
| U-6 | 29.65 | 25.71 | 40.02 | 0 | No | 10 |
| U-7 | 29.95 | 25.10 | 37.82 | 0 | No | 9 |

(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 |

Table 2
 Summary of Laboratory Analyses
 Water

| Well # | Date | TPH as Diesel | TPH as Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE |
|--------|-----------|---------------|-----------------|---------|---------|---------------|---------|------|
| U-1 | 8/13/93† | 50* | 310 | 0.84 | ND | 2.6 | 1.0 | -- |
| | 12/16/93† | 130** | ND | ND | ND | ND | ND | -- |
| | 3/25/94† | 57** | 58 | 0.63 | 0.79 | ND | 0.65 | -- |
| | 6/19/94† | 61** | 51 | ND | 1.4 | ND | 2.7 | -- |
| | 9/15/94† | 83** | ND | 0.50 | 0.85 | ND | 0.77 | -- |
| | 12/6/94† | ND | ND | ND | ND | ND | ND | -- |
| | 3/14/95 | 71** | 380 | 20 | ND | ND | 10 | -- |
| | 6/20/95 | 170** | 500 | 50 | ND | ND | 4.4 | -- |
| | 9/18/95 | 72 | 57 | 1.2 | 0.75 | 0.57 | 2.2 | § |
| | 12/14/95 | ND | ND | 0.72 | 1.4 | 1.2 | 3.6 | -- |
| | 3/6/96 | ND | 96 | 4.5 | ND | ND | 3.7 | ND |
| | 6/4/96 | 170** | 410 | 48 | ND | 3.4 | 7.9 | ND |
| | 9/6/96 | ND | ND | ND | ND | ND | ND | ND |
| U-2 | 8/13/93 | -- | 1,400 | ND | ND | ND | ND | -- |
| | 12/16/93 | -- | 330 | 1.7 | ND | 11 | 8.5 | -- |
| | 3/25/94 | -- | 130 | 0.70 | 0.78 | 0.65 | 0.64 | -- |
| | 6/19/94 | -- | 180♦ | ND | ND | ND | 0.86 | -- |
| | 9/15/94 | -- | 1,000♦♦ | 44 | ND | ND | ND | -- |
| | 12/6/94 | -- | 250 | 19 | ND | ND | ND | -- |
| | 3/14/95 | -- | 89 | ND | ND | ND | 1.2 | -- |
| | 6/20/95 | -- | ND | ND | 0.58 | ND | 1.7 | -- |
| | 9/18/95 | -- | ND | ND | ND | ND | 0.85 | § |
| | 12/14/95 | -- | ND | ND | 0.89 | ND | 2.0 | §§ |
| | 3/6/96 | -- | ND | ND | ND | ND | ND | 80 |
| | 6/4/96 | -- | ND | ND | ND | ND | ND | 110 |
| | 9/6/96 | -- | ND | ND | ND | ND | ND | ND |
| U-3 | 8/13/93 | -- | 23,000 | 1,000 | ND | 1,700 | 1,600 | -- |
| | 12/16/93 | -- | 15,000 | 570 | ND | 940 | 670 | -- |
| | 3/25/94 | -- | 18,000 | 560 | 40 | 1,000 | 770 | -- |
| | 6/19/94 | -- | 17,000 | 580 | ND | 1,300 | 90 | -- |
| | 9/15/94 | -- | 12,000 | 370 | ND | 970 | 610 | -- |
| | 12/6/94 | -- | 17,000 | 390 | ND | 990 | 560 | -- |
| | 3/14/95 | -- | 13,000 | 860 | 120 | 1,300 | 1,700 | -- |
| | 6/20/95 | -- | 9,800 | 590 | ND | 800 | 1,000 | -- |
| | 9/18/95 | -- | 9,800 | 600 | ND | 1,000 | 760 | § |
| | 12/14/95 | -- | 10,000 | 520 | ND | 920 | 630 | §§ |
| | 3/6/96 | -- | 19,000 | 1,400 | ND | 1,800 | 3,000 | 73 |
| | 6/4/96 | -- | 8,800 | 510 | ND | 600 | 830 | ND |
| | 9/6/96 | -- | 15,000 | 360 | 20 | 540 | 450 | ND |

Table 2
Summary of Laboratory Analyses
Water

| Well # | Date | TPH as Diesel | TPH as Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE |
|--------|----------|---------------|-----------------|---------|---------|---------------|---------|------|
| U-4 | 3/14/95 | -- | 490 | 3.2 | 2.1 | 0.79 | 1.2 | -- |
| | 6/20/95 | -- | ND | ND | ND | ND | 1.5 | -- |
| | 9/18/95 | -- | ND | ND | ND | ND | ND | § |
| | 12/14/95 | -- | ND | ND | 0.59 | ND | 0.79 | §§ |
| | 3/6/96 | -- | ND | ND | ND | ND | 0.62 | 50 |
| | 6/4/96 | -- | ND | ND | ND | ND | ND | 290 |
| | 9/6/96 | -- | ND | ND | ND | ND | ND | ND |
| U-5 | 3/14/95 | -- | ND | ND | ND | ND | 1.2 | -- |
| | 6/20/95 | -- | ND | ND | ND | ND | 1.6 | -- |
| | 9/18/95 | -- | ND | ND | ND | ND | 0.66 | -- |
| | 12/14/95 | -- | ND | ND | ND | ND | ND | -- |
| | 3/6/96 | -- | ND | ND | ND | ND | ND | ND |
| | 6/4/96 | -- | ND | ND | ND | ND | ND | ND |
| | 9/6/96 | -- | ND | ND | ND | ND | ND | ND |
| U-6 | 3/14/95 | -- | 14,000 | 170 | 36 | 790 | 1,500 | -- |
| | 6/20/95 | -- | 8,500 | 170 | 11 | 950 | 1,300 | -- |
| | 9/18/95 | -- | 9,500 | 260 | ND | 1,400 | 1,800 | § |
| | 12/14/95 | -- | 15,000 | 240 | ND | 1,400 | 1,700 | §§ |
| | 3/6/96 | -- | 2,400 | 54 | ND | 170 | 250 | ND |
| | 6/4/96 | -- | 4,600 | 83 | ND | 400 | 520 | 46 |
| | 9/6/96 | -- | 12,000 | 180 | 6.4 | 690 | 600 | 95 |
| U-7 | 3/14/95 | -- | ND | ND | ND | ND | ND | -- |
| | 6/20/95 | -- | ND | ND | ND | ND | ND | -- |
| | 9/18/95 | -- | ND | ND | ND | ND | ND | -- |
| | 12/14/95 | -- | ND | ND | ND | ND | 0.88 | -- |
| | 3/6/96 | -- | ND | ND | ND | ND | ND | ND |
| | 6/4/96 | -- | ND | ND | ND | ND | ND | ND |
| | 9/6/96 | -- | ND | ND | ND | ND | ND | ND |

§ 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.

Table 2
Summary of Laboratory Analyses
Water

- ◆ 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.

MTBE = Methyl tert butyl ether.

ND = Non-detectable.

-- Indicates analysis was not performed.

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

Note: The detection limit for results reported as ND by Sequoia Analytical Laboratory is equal to the stated detection limit times the dilution factor indicated on the laboratory analytical sheets.

Prior to August 1, 1995, the total purgeable petroleum hydrocarbon (TPH as gasoline) quantification range used by Sequoia Analytical Laboratory was C4 - C12. Since August 1, 1995, the quantification range used by Sequoia Analytical Laboratory is C6 - C12.

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

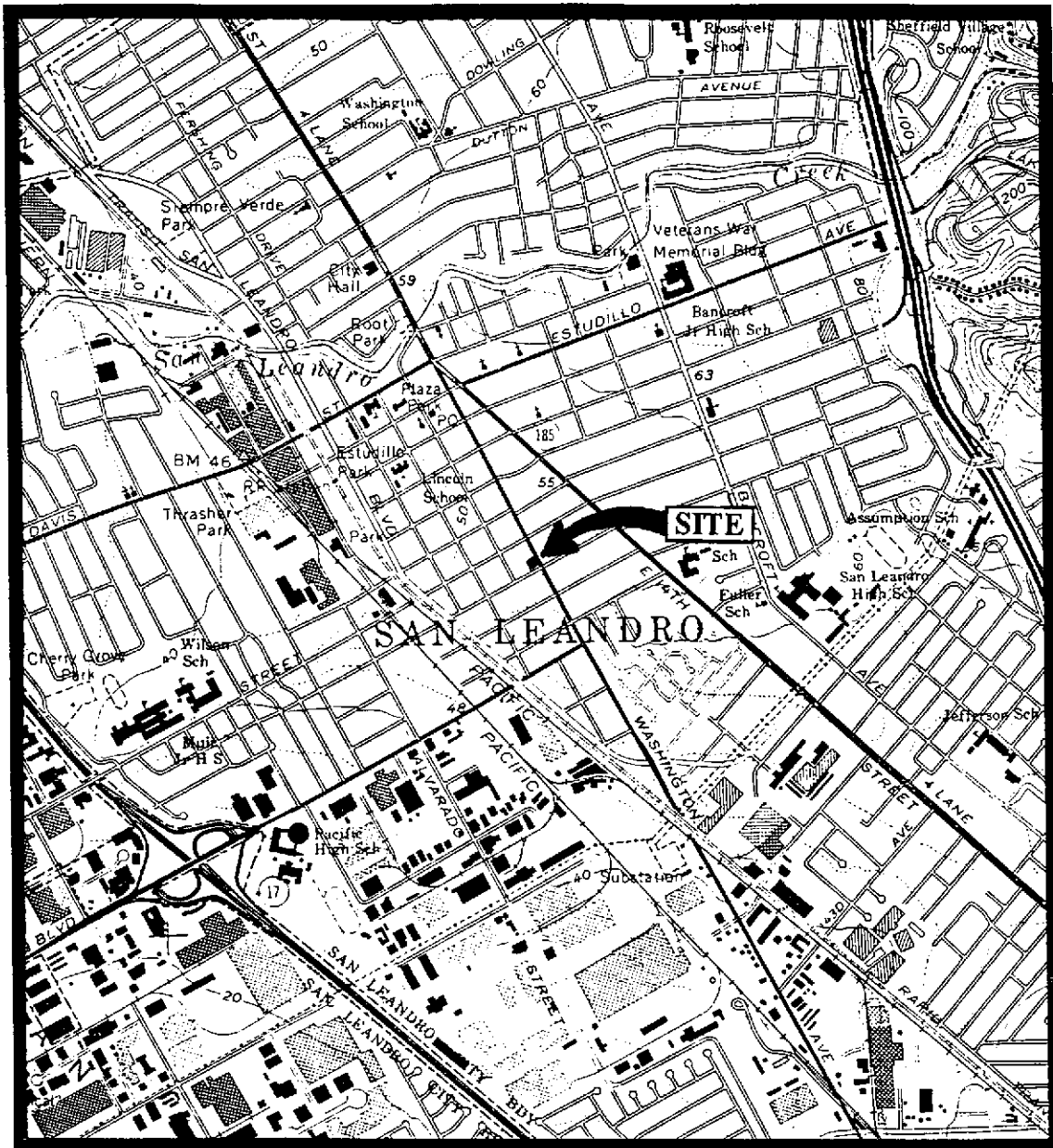
Table 3
 Summary of Laboratory Analyses
 Water

| Well # | Date | 1,2-Dichlorobenzene | 1,2-Dichloroethane |
|--------|----------|---------------------|--------------------|
| U-1 | 6/19/94 | ND | 7.4 |
| | 9/15/94 | ND | 9.5 |
| | 12/6/94 | ND | 5.8 |
| | 12/14/95 | ND | 3.8 |
| U-2 | 3/25/94 | ND | 11 |
| | 3/25/94 | ND | ND |
| | 6/19/94 | ND | 0.54 |
| | 9/15/94 | ND | 0.66 |
| | 12/6/94 | ND | ND |
| | 12/14/95 | ND | ND |
| U-3 | 3/25/94 | ND | 480 |
| | 6/19/94 | ND | 410 |
| | 9/15/94 | ND | 420 |
| | 12/6/94 | ND | 430 |
| | 12/14/95 | ND | 240 |
| U-4 | 3/14/95 | ND | ND |
| | 12/14/95 | ND | ND |
| U-5 | 3/14/95 | ND | ND |
| | 12/14/95 | ND | ND |
| U-6 | 3/14/95 | ND | 210 |
| | 12/14/95 | ND | 370 |
| U-7 | 3/14/95 | ND | ND |
| | 12/14/95 | ND | ND |

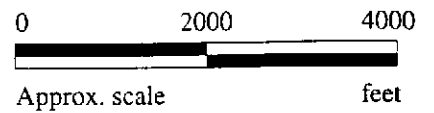
ND = Non-detectable.

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

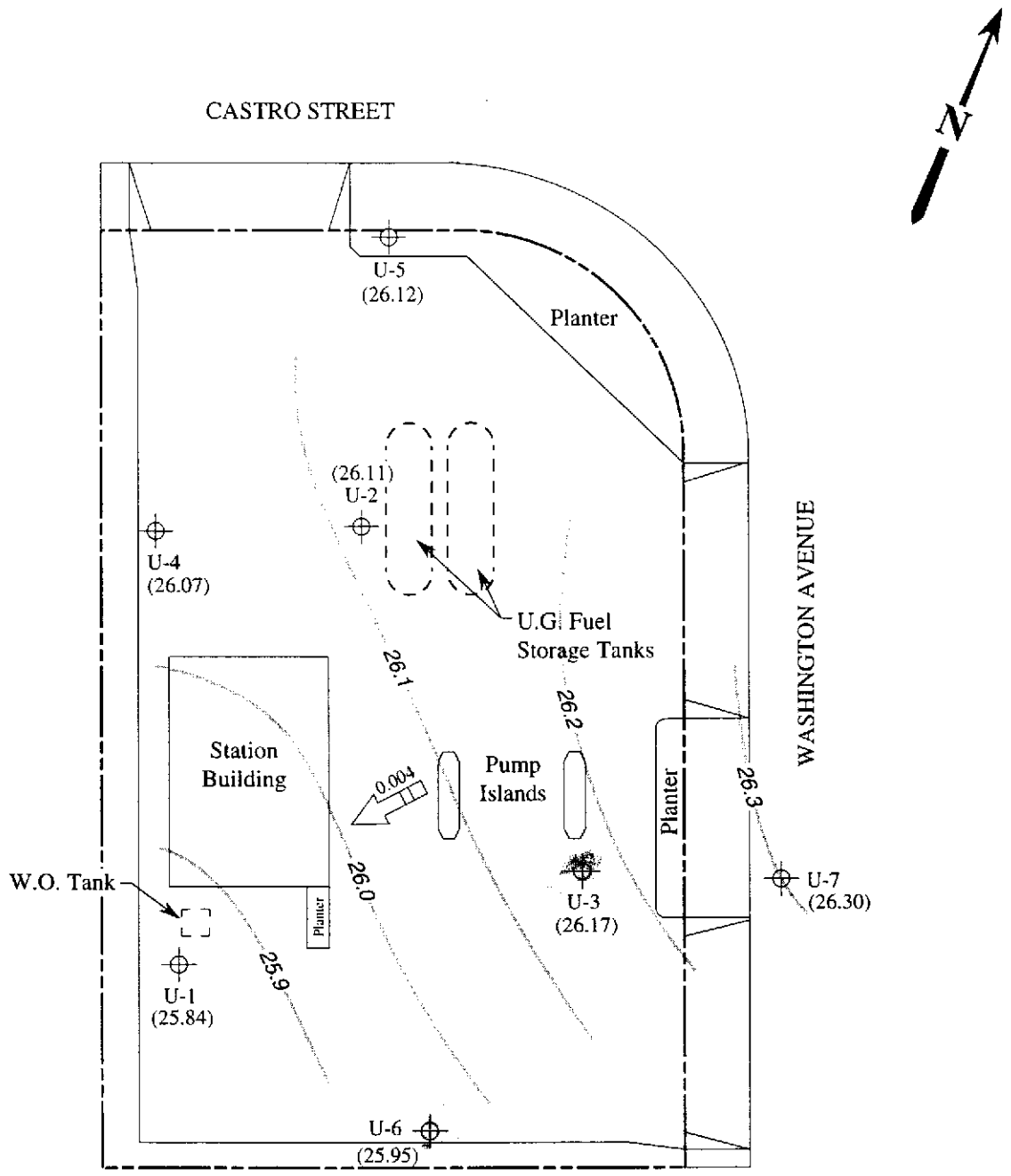
Note: All EPA method 8010 constituents were non-detectable, except as indicated above.



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

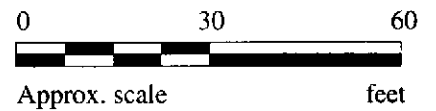


| | | |
|--|---|--|
| | <p>UNOCAL SERVICE STATION #5430 1935 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA</p> | <p>LOCATION MAP</p> |
|--|---|--|



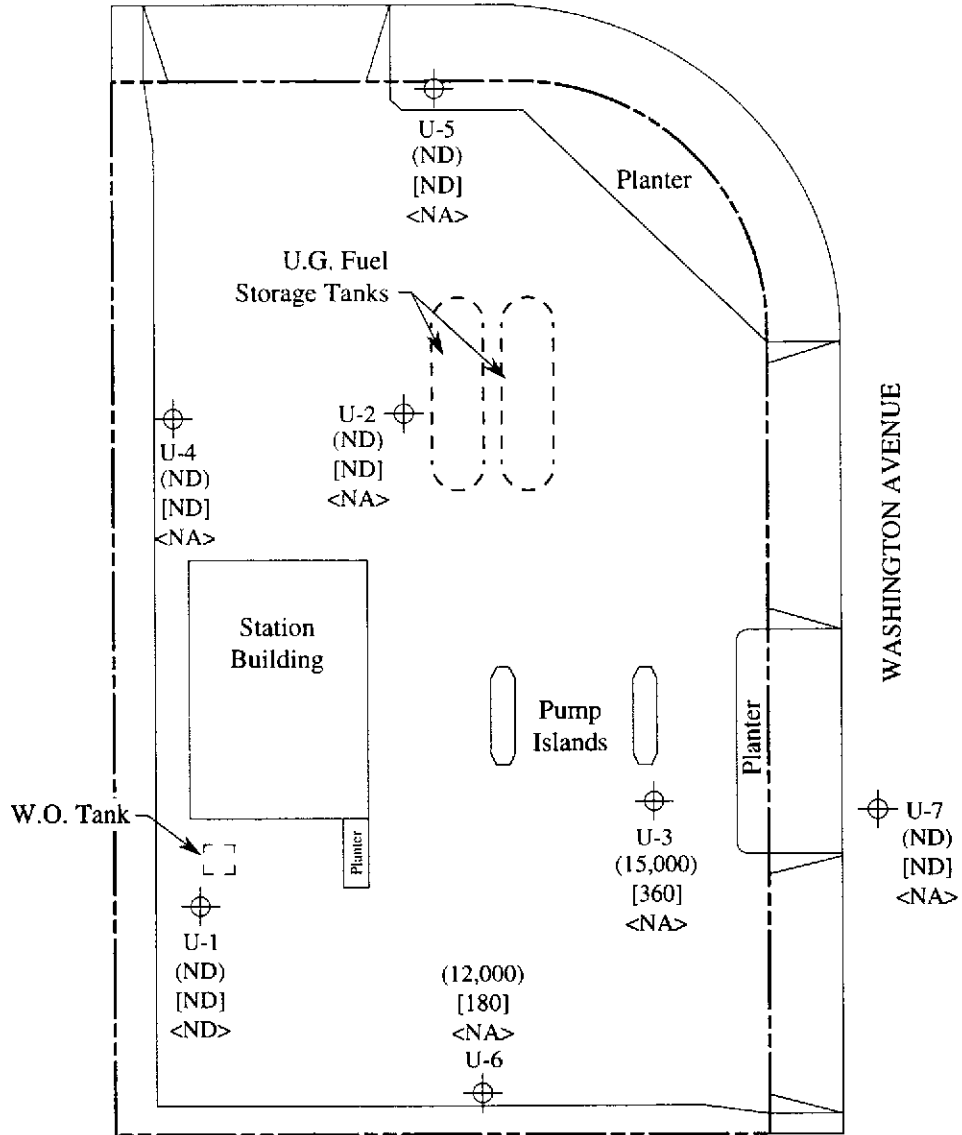
LEGEND

- ⊕ 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



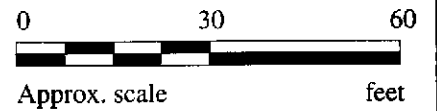
POTENTIOMETRIC SURFACE MAP FOR THE SEPTEMBER 6, 1996 MONITORING EVENT

CASTRO STREET



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, NA Not analyzed



PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON SEPTEMBER 6, 1996



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

**FIGURE
2**



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

Client Project ID: Unocal #5430, 1935 Washington Ave.
Matrix Descript: Water San Leandro
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 609-0410

Sampled: Sep 6, 1996
Received: Sep 6, 1996
Reported: Sep 27, 1996

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 |
|---------------|--------------------|--------------------------------|-----------------|-----------------|-----------------------|-----------------------|
| 609-0410 | U-1 | ND | ND | ND | ND | ND |
| 609-0411 | U-2 | ND | ND | ND | ND | ND |
| 609-0412 | U-3 | 15,000 | 360 | 20 | 540 | 450 |
| 609-0413 | U-4 | ND | ND | ND | ND | ND |
| 609-0414 | U-5 | ND | ND | ND | ND | ND |
| 609-0415 | U-6 | 12,000 | 180 | 6.4 | 690 | 600 |
| 609-0416 | U-7 | ND | ND | ND | ND | ND |
| 609-0417 | ES-1 | ND | ND | ND | ND | ND |
| 609-0418 | ES-2 | ND | ND | ND | ND | ND |
| 609-0419 | ES-3 | ND | ND | ND | ND | ND |

| | | | | | |
|--------------------------|-----------|-------------|-------------|-------------|-------------|
| Detection Limits: | 50 | 0.50 | 0.50 | 0.50 | 0.50 |
|--------------------------|-----------|-------------|-------------|-------------|-------------|

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
& #1894**

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. Matrix Descript: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 609-0410 | San Leandro Sampled: Sep 6, 1996 Received: Sep 6, 1996 Reported: Sep 27, 1996 |
|---|---|--|

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

| Sample Number | Sample Description | Chromatogram Pattern | DL Mult. Factor | Date Analyzed | Instrument ID | Surrogate Recovery, % QC Limits: 70-130 |
|---------------|--------------------|----------------------|-----------------|---------------|---------------|---|
| 609-0410 | U-1 | -- | 1.0 | 9/14/96 | HP-2 | 106 |
| 609-0411 | U-2 | -- | 1.0 | 9/13/96 | HP-3 | 102 |
| 609-0412 | U-3 | Gasoline | 10 | 9/13/96 | HP-3 | 89 |
| 609-0413 | U-4 | -- | 1.0 | 9/13/96 | HP-3 | 100 |
| 609-0414 | U-5 | -- | 1.0 | 9/13/96 | HP-3 | 108 |
| 609-0415 | U-6 | Gasoline | 10 | 9/13/96 | HP-3 | 73 |
| 609-0416 | U-7 | -- | 1.0 | 9/13/96 | HP-3 | 101 |
| 609-0417 | ES-1 | -- | 1.0 | 9/26/96 | HP-4 | 96 |
| 609-0418 | ES-2 | -- | 1.0 | 9/26/96 | HP-4 | 95 |
| 609-0419 | ES-3 | -- | 1.0 | 9/26/96 | HP-4 | 94 |

**SEQUOIA ANALYTICAL, #1271
& #1894**

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 | Client Project ID: Unocal #5430, 1935 Washington Ave. Sample Descript: Water San Leandro Analysis for: MTBE (Modified EPA 8020) First Sample #: 609-0410 | Sampled: Sep 6, 1996 Received: Sep 6, 1996 Analyzed: Sep 13-14, 1996 Reported: Sep 27, 1996 |
|---|---|--|

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

| Sample Number | Sample Description | Detection Limit µg/L | Sample Result µg/L |
|---------------|--------------------|-------------------------|-----------------------|
| 609-0410 | U-1 | 40 | N.D. |
| 609-0411 | U-2 | 40 | N.D. |
| 609-0412 | U-3 | 40 | N.D. |
| 609-0413 | U-4 | 40 | N.D. |
| 609-0414 | U-5 | 40 | N.D. |
| 609-0415 | U-6 | 40 | 95 |
| 609-0416 | U-7 | 40 | N.D. |

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

SEQUOIA ANALYTICAL, #1894

Signature on File

Alan B. Kemp
Project Manager





| | | |
|-----------------------------|---|------------------------|
| MPDS Services | Client Project ID: Unocal #5430, 1935 Washington Ave. | Sampled: Sep 6, 1996 |
| 2401 Stanwell Dr., Ste. 300 | Sample Matrix: Water | Received: Sep 6, 1996 |
| Concord, CA 94520 | Analysis Method: EPA 3510/8015 Mod. | Reported: Sep 27, 1996 |
| Attention: Jarrel Crider | First Sample #: 609-0410 | |

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

| Analyte | Reporting Limit µg/L | Sample I.D. 609-0410 U-1 |
|--------------------------|-------------------------|--------------------------------|
| Extractable Hydrocarbons | 50 | N.D. |

Chromatogram Pattern: --

Quality Control Data

| | |
|-------------------------------------|---------|
| Report Limit Multiplication Factor: | 1.0 |
| Date Extracted: | 9/11/96 |
| Date Analyzed: | 9/12/96 |
| Instrument Identification: | HP-3A |

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. San Leandro
 2401 Stanwell Dr., Ste. 300 Matrix: Liquid
 Concord, CA 94520
 Attention: Jarrel Crider QC Sample Group: 6090410-419 Reported: Sep 27, 1996

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl Benzene | Xylenes |
|-----------------|----------|----------|---------------|----------|
| Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Analyst: | Z.T. | Z.T. | Z.T. | Z.T. |

| MS/MSD | | | | |
|---|----------|----------|----------|----------|
| Batch#: | MS091496 | MS091496 | MS091496 | MS091496 |
| Date Prepared: | 9/14/96 | 9/14/96 | 9/14/96 | 9/14/96 |
| Date Analyzed: | 9/14/96 | 9/14/96 | 9/14/96 | 9/14/96 |
| Instrument I.D.#: | HP-2 | HP-2 | HP-2 | HP-2 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Matrix Spike % Recovery: | 84 | 115 | 117 | 92 |
| Matrix Spike Duplicate % Recovery: | 80 | 111 | 112 | 122 |
| Relative % Difference: | 4.9 | 5.3 | 4.4 | 28 |

| | | | | |
|--------------------------|-----------|-----------|-----------|-----------|
| LCS Batch#: | LCS091496 | LCS091496 | LCS091496 | LCS091496 |
| Date Prepared: | 9/14/96 | 9/14/96 | 9/14/96 | 9/14/96 |
| Date Analyzed: | 9/14/96 | 9/14/96 | 9/14/96 | 9/14/96 |
| Instrument I.D.#: | HP-2 | HP-2 | HP-2 | HP-2 |
| LCS % Recovery: | 97 | 108 | 99 | 116 |

| | | | | |
|-----------------------------------|--------|--------|--------|--------|
| % Recovery Control Limits: | 60-140 | 60-140 | 60-140 | 60-140 |
|-----------------------------------|--------|--------|--------|--------|

SEQUOIA ANALYTICAL, #1894

Signature on File

Alan B. Kemp
Project Manager

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





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: 6090410-419

Reported: Sep 27, 1996

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl Benzene | Xylenes |
|----------|----------|----------|---------------|----------|
| Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Analyst: | Z.T. | Z.T. | Z.T. | Z.T. |

| MS/MSD Batch#: | 6090824 | 6090824 | 6090824 | 6090824 |
|------------------------------------|---------|---------|---------|---------|
| Date Prepared: | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 |
| Date Analyzed: | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 |
| Instrument I.D.#: | HP-3 | HP-3 | HP-3 | HP-3 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L | 30 µg/L |
| Matrix Spike % Recovery: | - | - | - | - |
| Matrix Spike Duplicate % Recovery: | - | - | - | - |
| Relative % Difference: | - | - | - | - |

| LCS Batch#: | LCS091396 | LCS091396 | LCS091396 | LCS091396 |
|-------------------|-----------|-----------|-----------|-----------|
| Date Prepared: | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 |
| Date Analyzed: | 9/13/96 | 9/13/96 | 9/13/96 | 9/13/96 |
| Instrument I.D.#: | HP-3 | HP-3 | HP-3 | HP-3 |
| LCS % Recovery: | 91 | 99 | 102 | 101 |

| % Recovery Control Limits: | 60-140 | 60-140 | 60-140 | 60-140 |
|----------------------------|--------|--------|--------|--------|
|----------------------------|--------|--------|--------|--------|

SEQUOIA ANALYTICAL, #1894

Signature on File
Alan B. Kemp
Project Manager

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





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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: 6090410-419

Reported: Sep 27, 1996

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl Benzene | Xylenes | Diesel |
|-----------------|----------|----------|---------------|----------|------------|
| Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015 |
| Analyst: | - | - | - | - | I. Dalvand |

MS/MSD
Batch#:

- - - - BLK091196

| | | | | | |
|--------------------------|---------|---------|---------|---------|----------|
| Date Prepared: | 9/26/96 | 9/26/96 | 9/26/96 | 9/26/96 | 9/11/96 |
| Date Analyzed: | 9/26/96 | 9/26/96 | 9/26/96 | 9/26/96 | 9/11/96 |
| Instrument I.D.#: | HP-4 | HP-4 | HP-4 | HP-4 | HP-3A |
| Conc. Spiked: | 20 µg/L | 20 µg/L | 20 µg/L | 60 µg/L | 300 µg/L |

Matrix Spike
% Recovery:

84 115 117 92 23

Matrix Spike
Duplicate %
Recovery:

80 111 112 122 40

Relative %
Difference:

4.9 5.3 4.4 28 55

| | | | | | |
|--------------------------|-----------|-----------|-----------|-----------|-----------|
| LCS Batch#: | LCS091496 | LCS091496 | LCS091496 | LCS091496 | LCS091196 |
| Date Prepared: | 9/26/96 | 9/26/96 | 9/26/96 | 9/26/96 | 9/11/96 |
| Date Analyzed: | 9/26/96 | 9/26/96 | 9/26/96 | 9/26/96 | 9/11/96 |
| Instrument I.D.#: | HP-4 | HP-4 | HP-4 | HP-4 | HP-3A |

LCS %
Recovery:

97 108 99 116 83

% Recovery
Control Limits:

60-140 60-140 60-140 60-140 50-150

SEQUOIA ANALYTICAL, #1271

Signature on File

Alan B. Kemp
 Project Manager

Please Note:

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



CHAIN OF CUSTODY

9609207

| SAMPLER | | | UNOCAL | | | | | ANALYSES REQUESTED | | | | | | | TURN AROUND TIME: | | |
|-------------------|--------|----------|--|------|------|--------------------|-------------------|--------------------|----------------|-----|------|------|--|--|-------------------|---------|---------|
| VARTKES TASHDJIAN | | | SIS # <u>5430</u> CITY: <u>San Leandro</u> | | | | | TPH-GAS BTEX | TPH- DIESEL | TOG | 8010 | MTBE | | | | | Regular |
| WITNESSING AGENCY | | | ADDRESS: <u>1935 Washington Ave.</u> | | | | | | | | | | | | | | |
| SAMPLE ID NO. | DATE | TIME | WATER | GRAB | COMP | NO. OF CONT. | SAMPLING LOCATION | | | | | | | | | | |
| U1 | 9/6/96 | 12:55 PM | X | X | | 2 VOAs 1 Amber. | Well | X | X | | | X | | | | 6090410 | |
| U2 | " | 10:21 AM | X | X | | 2 VOAs | " | X | | | | X | | | | 6090411 | |
| U3 | " | 2:10 PM | X | X | | " | " | X | | | | X | | | | 6090412 | |
| U4 | " | 11:35 AM | X | X | | " | " | X | | | | X | | | | 6090413 | |
| U5 | " | 12:10 PM | X | X | | " | " | X | | | | X | | | | 6090414 | |
| U6 | " | 1:30 PM | X | X | | " | " | X | | | | X | | | | 6090415 | |
| U7 | " | 10:54 AM | X | X | | " | " | X | | | | X | | | | 6090416 | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| | | | | |
|-------------------------|-------------------|-------------------|------------------------|---|
| RELINQUISHED BY: | DATE/TIME | RECEIVED BY: | DATE/TIME | THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES: 1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u> X </u> 2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u> X </u> 3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u> N </u> 4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u> X </u> |
| <i>Vartkes Tashdjan</i> | 9/6/96 3:25 PM | <i>JDCardenas</i> | 9-6-96 1525 | |
| (SIGNATURE) | | (SIGNATURE) | | |
| (SIGNATURE) | | (SIGNATURE) | | |
| (SIGNATURE) | | (SIGNATURE) | | |
| (SIGNATURE) | 9-9-96 1525 | <i>JDCardenas</i> | 1550 9-9-96 1330 | SIGNATURE: <i>JDCardenas</i> TITLE: <i>Analyst</i> DATE: <i>9-6-96</i> |

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 HN03. All other containers are unpreserved.

CHAIN OF CUSTODY

9609107

| | | | | | | | | | | | | | | | | |
|---------------------------------------|--------------------|-----------------------------------|--|------|------|--------------|--------------------|--|----------------|-----|------|--|--|--|-------------------------------------|---------|
| SAMPLER VARTKES TASHDJIAN | | | UNOCAL S/S # <u>5430</u> CITY: <u>San Leandro</u> | | | | | ANALYSES REQUESTED | | | | | | | TURN AROUND TIME: <u>Regular</u> | |
| 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 | | | | | | | | | |
| ES1 | 9/6/96 | | | | | 150A | | X | | | | | | | 6090417 | |
| ES2 | ~ | | | | | ~ | | X | | | | | | | 6090418 | |
| ES3 | ~ | | | | | ~ | | X | | | | | | | 6090419 | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: | DATE/TIME | RECEIVED BY: | | | | | DATE/TIME | THE FOLLOWING <u>MUST</u> BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES: | | | | | | | | |
| <i>Weather Baldwin</i> (SIGNATURE) | 9/6/96 3:25pm | <i>JDCardenas</i> (SIGNATURE) | | | | | 9-6-96 1525 | 1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? <u>Y</u> | | | | | | | | |
| <i>[Signature]</i> (SIGNATURE) | <i>[Signature]</i> | <i>[Signature]</i> (SIGNATURE) | | | | | 9-9-96 1530 | 2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? <u>Y</u> | | | | | | | | |
| <i>[Signature]</i> (SIGNATURE) | <i>[Signature]</i> | <i>[Signature]</i> (SIGNATURE) | | | | | 9-9-96 1550 | 3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? <u>N</u> | | | | | | | | |
| <i>[Signature]</i> (SIGNATURE) | <i>[Signature]</i> | <i>[Signature]</i> (SIGNATURE) | | | | | <i>[Signature]</i> | 4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? <u>Y</u> | | | | | | | | |
| <i>[Signature]</i> (SIGNATURE) | 9-9-96 1525 | <i>[Signature]</i> (SIGNATURE) | | | | | <i>[Signature]</i> | SIGNATURE: <i>JDCardenas</i> TITLE: <i>analyst</i> DATE: <i>9-6-96</i> | | | | | | | | |

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.

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #5430 - San Leandro DATE & TIME SAMPLED: 9/6/96 12:55 (P.M.) A.M.

1935 Washington Ave. FIELD TECHNICIAN: Vaethas

PURGE METHOD: Pump DATE(S) PURGED: 9/6/96

WELL NUMBER: U 1

WATER LEVEL-INITIAL: 30.25 SAMPLING METHOD: Boil

WATER LEVEL-FINAL: 33.53 CONTAINERS: 3

WELL DEPTH: 39.62 PRESERVATIVES: VOA's HCl

WELL CASING VOLUME: 1.59 †CASING DIAMETER: 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL) | pH (± 0.2) |
|-------|----------------|-----------------------------|---|---------------|
| 12:35 | 0 | 29.1 | 6.63 | 7.85 |
| | 1.5 | 74.0 | 6.73 | 7.63 |
| | 3 | 72.2 | 6.86 | 7.54 |
| 12:42 | 4.5 | 71.3 | 6.98 | 7.49 |
| | 11 | De water and | — | — |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: # 5430 - San Leandro DATE & TIME SAMPLED 9/6/96 10:21 A.M. P.M.

1935 Washington Ave. FIELD TECHNICIAN Vantker

PURGE METHOD Pump DATE(S) PURGED 9/6/96

WELL NUMBER U 2

WATER LEVEL-INITIAL 29.18 SAMPLING METHOD Boil

WATER LEVEL-FINAL 29.24 CONTAINERS 2

WELL DEPTH 39.28 PRESERVATIVES NOA's HCl

WELL CASING VOLUME 1.72 †CASING DIAMETER 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL) | pH (± 0.2) |
|-------|----------------|--------------------------------|---|---------------|
| 10:02 | 0 0 | 67.1 | 4.94 | 7.93 |
| | 1.5 | 68.3 | 4.70 | 7.76 |
| | 3 | 68.9 | 5.05 | 7.62 |
| | 4.5 | 68.2 | 5.17 | 7.55 |
| 10:10 | 6 | 69.7 | 5.11 | 7.50 |
| | 7 | — | — | — |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #5430 - San Leandro DATE & TIME SAMPLED 9/6/96 2:10 A.M. P.M.

1935 Washington Ave. FIELD TECHNICIAN Vartkus

PURGE METHOD Pump DATE(S) PURGED 9/6/96

WELL NUMBER U3

WATER LEVEL-INITIAL 29.06 SAMPLING METHOD Bail

WATER LEVEL-FINAL 29.21 CONTAINERS 2

WELL DEPTH 38.54 PRESERVATIVES VOA's HCl

WELL CASING VOLUME 1.61 †CASING DIAMETER 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL) | pH (± 0.2) |
|------|----------------|-----------------------------|---|---------------|
| 1:48 | 0 | 79.2 | 7.74 | 7.58 |
| | 1.5 | 74.7 | 7.18 | 7.43 |
| | 3 | 73.0 | 7.13 | 7.39 |
| | 4.5 | 72.1 | 7.38 | 7.34 |
| 1:56 | 6.5 | 70.9 | 7.50 | 7.30 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #5430 - San Leandro DATE & TIME SAMPLED: 9/6/96 (A.M.)
11:35 P.M.

1935 Washington Ave. FIELD TECHNICIAN: Vartkes

PURGE METHOD: Pump DATE(S) PURGED: 9/6/96

WELL NUMBER: 44

WATER LEVEL-INITIAL: 29.32 SAMPLING METHOD: Boil

WATER LEVEL-FINAL: 29.46 CONTAINERS: 2

WELL DEPTH: 39.08 PRESERVATIVES: NOA, HCl

WELL CASING VOLUME: 1.66 †CASING DIAMETER: 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL) | pH (± 0.2) |
|-------|----------------|-----------------------------|---|---------------|
| 11:13 | 0 | 75.6 | 6.11 | 7.90 |
| | 1.5 | 73.2 | 6.00 | 7.73 |
| | 3 | 71.8 | 5.86 | 7.62 |
| | 4.5 | 71.2 | 5.75 | 7.53 |
| 11:22 | 6 | 70.6 | 5.71 | 7.48 |
| | 7 | — | — | — |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #5430 - San Leandro DATE & TIME SAMPLED: 9/6/96 12:10 P.M. A.M.

1935 Washington Ave. FIELD TECHNICIAN: Varkis

PURGE METHOD: Pump DATE(S) PURGED: 9/6/96

WELL NUMBER: U5

WATER LEVEL-INITIAL: 28.06 SAMPLING METHOD: Boil

WATER LEVEL-FINAL: 28.11 CONTAINERS: 2

WELL DEPTH: 38.56 PRESERVATIVES: VOA's HCl

WELL CASING VOLUME: 1.79 †CASING DIAMETER: 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY (µmhos/cm)x100 (± 10% of TOTAL) | pH (± 0.2) |
|-------|----------------|--------------------------|---|------------|
| 11:50 | 0 | 77.4 | 4.75 | 7.96 |
| | 2 | 73.6 | 4.51 | 7.79 |
| | 4 | 71.9 | 4.40 | 7.68 |
| | 6 | 71.0 | 4.33 | 7.60 |
| 11:59 | 7.5 | 70.9 | 4.31 | 7.56 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #5432. San Leandro DATE & TIME SAMPLED 9/6/96 10:54 ^{AM} P.M.

1925 Washington Ave FIELD TECHNICIAN Vastkus

PURGE METHOD Pump DATE(S) PURGED 9/6/96

WELL NUMBER U7

WATER LEVEL-INITIAL 28.75 SAMPLING METHOD Boil

WATER LEVEL-FINAL 29.03 CONTAINERS 2

WELL DEPTH 37.77 PRESERVATIVES NOA; HCl

WELL CASING VOLUME 1.53 †CASING DIAMETER 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY ([μmhos/cm]x100) (± 10% of TOTAL) | pH (± 0.2) |
|-------|----------------|-----------------------------|---|---------------|
| 10:36 | 0 | 74.3 | 4.35 | 8.02 |
| | 1.5 | 71.9 | 4.30 | 7.87 |
| | 3 | 71.0 | 4.23 | 7.69 |
| | 4.5 | 70.6 | 4.14 | 7.62 |
| 10:43 | 6.5 | 70.4 | 4.09 | 7.59 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |

PURGING/SAMPLING DATA SHEET

SAMPLING LOCATION: #5430 - San Leandro DATE & TIME SAMPLED 9/6/96 1:30 (P.M.) A.M.

1935 Washington Ave. FIELD TECHNICIAN Varkes

PURGE METHOD Pump DATE(S) PURGED 9/6/96

WELL NUMBER 46

WATER LEVEL-INITIAL 29.41 SAMPLING METHOD Bail

WATER LEVEL-FINAL 30.56 CONTAINERS 2

WELL DEPTH 40.02 PRESERVATIVES VOA, HCl

WELL CASING VOLUME 1.80 CASING DIAMETER 2"

| TIME | GALLONS PURGED | TEMPERATURE (°F) (± 1°F) | ELECTRICAL CONDUCTIVITY ((μmhos/cm)x100) (± 10% of TOTAL) | pH (± 0.2) |
|------|----------------|-----------------------------|---|---------------|
| 1:00 | 0 | 78.6 | 8.08 | 7.60 |
| | 2 | 73.5 | 7.44 | 7.48 |
| | 4 | 71.9 | 7.52 | 7.38 |
| | 6 | 70.8 | 7.63 | 7.31 |
| 1:19 | 7.5 | 70.6 | 7.67 | 7.28 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

† Correction Factors:

| Well Diameter | Factor |
|---------------|--------|
| 2" | 0.17 |
| 3" | 0.37 |
| 4" | 0.65 |
| 4.5" | 0.82 |
| 6" | 1.46 |
| 8" | 2.6 |
| 12" | 5.87 |