

February 14, 1996

Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, CA 94502

Attention: Mr. Scott Seery

RE: Unocal Service Station #5367

500 Bancroft Avenue San Leandro, California

Dear Mr. Seery:

Per the request of the Unocal Corporation Project Manager, Ms. Tina R. Berry, 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) 277-2321.

Sincerely,

MPDS Services, Inc.

Jarrel F. Crider

/jfc

Enclosure

cc: Ms. Tina R. Berry



May 20, 1996

Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, CA 94502

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Sincerely,

MPDS Services, Inc.

Jarrel F. Crider

/dr

Enclosure

cc: Ms. Tina R. Berry

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January 13, 1997 Project 311-127.1A

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

Re: 76 Products Company
Quarterly Summary Report
Fourth Quarter 1996

Dear Mr. Hiett:

As directed by Ms. Tina Berry of 76 Products Company, Pacific Environmental Group, Inc. is forwarding the quarterly summary report for the following location:

Service Station

Location

5367

500 Bancroft Avenue, San Leandro

Should 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: Ms. Tina Berry, 76 Products Company

Ms. Amy Leech, Alameda County Health Care Services

Quarterly Summary Report Fourth Quarter 1996

76 Products Company Service Station 5367 500 Bancroft Avenue San Leandro, California

City/County ID #: None County: Alameda

BACKGROUND

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The site is an active 76 Products Company service station. In 1987, limited soil excavation was performed at the site during the replacement of underground storage tanks, product lines and product dispensers. One groundwater monitoring well was installed following these activities. Between 1988 and 1994, eight monitoring wells were installed, aquifer testing was performed and a remedial action plan was prepared. In 1995, one additional monitoring well was installed, and a soil vapor extraction and groundwater extraction remediation system was constructed. During the first quarter of 1996, remedial system start up and operation were performed. During the third quarter 1996, Unocal submit revisions to the groundwater monitoring program requesting a sampling reduction from quarterly to semiannually.

RECENT QUARTER ACTIVITIES

Monthly monitoring of the soil vapor and groundwater extraction and treatment system was performed and appropriate compliance documentation was submitted.

NEXT QUARTER ACTIVITIES

Operation and maintenance of the remedial system will continue. Groundwater monitoring and sampling will be performed in March.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated? Yes.

Dissolved groundwater delineated? Yes.

Free product delineated? Not applicable.

Amount of groundwater contaminant recovered this quarter? Approximately 100 pounds.

Soil remediation in progress? Yes.

Start? March 1996.

Anticipated completion date? Unknown.

Dissolved/free product remediation in progress? Yes.

Start? March 1996.

Anticipated completion? Unknown.

CONSULTANT: Pacific Environmental Group, Inc.





January 13, 1997 Project 311-127.1A

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

Re: 76 Products Company
Quarterly Summary Report
Fourth Quarter 1996

Dear Mr. Hiett:

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Service Station <u>Location</u>
5367 <u>Solution</u>
500 Bancroft Avenue, San Leandro

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

Sincerely,

Pacific Environmental Group, Inc.

Project Geologist

Enclosure

Ms. Tina Berry, 76 Products Company
Ms. Amy Leech, Alameda County Health Care Services

Quarterly Summary Report Fourth Quarter 1996

76 Products Company Service Station 5367 500 Bancroft Avenue San Leandro, California

City/County ID #: None

County: Alameda

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Start? March 1996.

Anticipated completion date? Unknown.

Dissolved/free product remediation in progress? Yes.

Start? March 1996.

Anticipated completion? Unknown,

CONSULTANT: Pacific Environmental Group, Inc.



MPDS-UN5367-10 May 3, 1996

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

Attention: Ms. Tina R. Berry

RE: Quarterly Data Report

Unocal Service Station #5367 500 Bancroft Avenue

San Leandro, California

Dear Ms. Berry:

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. Oxygen Release Compound (ORC) filter socks were present in monitoring well MW-8. 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 March 27, 1996. Prior to sampling, the wells were each purged of between 9 and 67.5 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. Equipment blank, Trip 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 and benzene detected in the ground water samples collected this

MPDS-UN5367-10 May 3, 1996 Page 2

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 Health Care Services Agency, and to Mr. Mike 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.

No. EG 1633

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

cc:

Attachments: Tables 1 through 4

Location Map Figures 1 & 2 Laboratory Analyses

Chain of Custody documentation

Mr. Joe Muzzio, Pacific Environmental Group, Inc.

Table 1
Summary of Monitoring Data

| | Ground Water Elevation | Depth to Water | Total Well Depth | Product Thickness | Sheen | Water Purged (gallons) |
|--------|---------------------------|-------------------|----------------------------|----------------------|-------|------------------------------|
| Well # | (feet) | (feet)* | (feet). Id Sampled on Mai | (feet) | SHOW | (Eartons) |
| | | (1410miore) | ia sampica on istai | LCH #1, 1770) | | |
| MW-1 | 35.54 | 22.29 | 35.18 | 0 | No | 9 |
| MW-2 | 35.83 | 22.30 | 46.90 | 0 | | 0 |
| MW-3 | 35.93 | 21.99 | 48.25 | 0 | | 0 |
| MW-4 | 35.58 | 22.71 | 48.52 | 0 | No | 67.5 |
| MW-5 | 35.75 | 22.75 | 44.40 | 0 | No | 15 |
| MW-6 | 35.37 | 21.59 | 44.53 | 0 | No | 16 |
| MW-7 | 35.31 | 21.94 | 43.80 | 0 | No | 15 |
| MW-8 | 35.51 | 22.20 | 43.92 | 0 | No | 15 |
| MW-9 | 35.56 | 20.91 | 44.52 | 0 | No | 16.5 |
| MW-10 | 35.32 | 23.62 | 42.60 | 0 | No | 13 |
| | | (Monitored and | Sampled on Dece | mber 29, 1995) | | |
| MW-1 | 27.43 | 30.40 | 35.15 | 0 | No | 3.5 |
| MW-2 | 27.88 | 30.25 | 46.70 | 0 | No | 43 |
| MW-3 | 28.01 | 29.91 | 48.07 | 0 | No | 47.5 |
| MW-4* | 27.33 | 30.96 | 48.50 | 0 | | 0 |
| MW-5* | 27.63 | 30.87 | 44.52 | 0 | | 0 |
| MW- 6* | 27.34 | 29.62 | 44.56 | 0 | | 0 |
| MW-7* | 27.34 | 29.91 | 43.70 | 0 | | 0 |
| MW-8 | 27.46 | 30.25 | 43.90 | 0 | No | 9.5 |
| MW-9 | 27.45 | 29.02 | 44.63 | 0 | No | 11 |
| MW-10 | 27.39 | 31.55 | 42.60 | 0 | No | 8 |
| | | (Monitored an | d Sampled on Octo | ober 24, 1995) | | |
| MW-1* | 27.84 | 29.99 | * | 0 | | 0 |
| MW-2* | 27.57 | 30.56 | * | 0 | | 0 |
| MW-3* | 27.58 | 30.34 | * | 0 | | 0 |
| MW-4* | 27.50 | 30.79 | * | 0 | | 0 |
| MW-5* | 27.52 | 30.98 | * | 0 | | 0 |
| MW-6* | 27.23 | 29.73 | * | 0 | | 0 |
| MW-7* | 27.20 | 30.05 | * | 0 | | 0 |
| MW-8* | 27.31 | 30.40 | * | 0 | | 0 |
| MW-9* | 27.26 | 29.21 | * | 0 | | 0 |
| MW-10 | 27.18 | 31.76 | 44.15 | 0 | No | 8.5 |

Table 1
Summary of Monitoring Data

| | Ground Water Elevation | Depth to Water | Total Well Depth | Product Thickness | | Water Purged |
|-------|---------------------------|-------------------|---------------------|----------------------|-------|-----------------|
| Well# | (feet) | (feet)∗ | (feet)+ | (feet) | Sheen | (galions) |
| | | (Monitored and | Sampled on Septe | mber 28, 1995) | | |
| MW-1 | 28.28 | 29.55 | 35.05 | 0 | No | 4 |
| MW-2 | 28.36 | 29.77 | 47.00 | 0 | No | 45 |
| MW-3 | 28.35 | 29.57 | 48.60 | 0 | No | 50 |
| MW-4 | 28.24 | 30.05 | 48.55 | 0 | No | 49 |
| MW-5 | 28.35 | 30.15 | 44.50 | 0 | No | 10 |
| MW-6 | 28.04 | 28.92 | 44.70 | 0 | No | 11 |
| MW-7 | 27.96 | 29.29 | 43.85 | 0 | No | 10 |
| MW-8 | 28.13 | 29.58 | 43.95 | 0 | No | 10 |
| MW-9 | 28.24 | 28.23 | 44.75 | 0 | No | 11.5 |
| | | (Monitored a | and Sampled on Ju | aly 28, 1995) | | |
| MW-1* | 30.86 | 26.97 | 34.98 | 0 | | 0 |
| MW-2* | 30.87 | 27.26 | 46.95 | 0 | | 0 |
| MW-3* | 30.86 | 27.06 | 48.55 | 0 | | 0 |
| MW-4* | 30.76 | 27.53 | 48.50 | 0 | | 0 |
| MW-5* | 30.87 | 27.63 | 44.40 | 0 | | 0 |
| MW-6* | 30.48 | 26.48 | 44.60 | 0 | | 0 |
| MW-7* | 30.41 | 26.84 | 43.65 | 0 | | 0 |
| MW-8* | 30.61 | 27.10 | 43.91 | 0 | | 0 |
| MW-9* | 30.70 | 25.77 | 44.66 | 0 | | 0 |
| MW-10 | 33.41 | 25.53 | 44.20 | 0 | No | 13 |

| | Well Casing Elevation | | | | |
|-------|--------------------------|--|--|--|--|
| Well# | (feet)** | | | | |
| MW-1 | 57.83 | | | | |
| MW-2 | 58.13 | | | | |
| MW-3 | 57.92 | | | | |
| MW-4 | 58.29 | | | | |
| MW-5 | 58.50 | | | | |
| MW-6 | 56.96 | | | | |
| MW-7 | 57.25 | | | | |
| MW- 8 | 57.71 | | | | |
| MW- 9 | 56.47 | | | | |
| MW-10 | 58.94 | | | | |

Table 1 Summary of Monitoring Data

- The depth to water level and total well depth measurements were taken from the top of the well casings.
- Monitored only.
- ** The elevations of the top of the well casings have been surveyed relative to Mean Sea Level.
- ★ Total well depth was not measured.
- -- Sheen determination was not performed.

Table 2

Record of the Temperature, Conductivity, and pH values in the Monitoring Wells During Purging and Prior to Sampling

| | Gallons | | Call | Casing | T | Conductivity | |
|--------------|----------------------|----------------|-------------------|-------------------|------------------|----------------------|---|
| Well# | per Casing Volume | Time | Gallons Purged | Volumes Purged | Temperature (°F) | ([µmhos/cm] x100) | pН |
| | | | | | | | *************************************** |
| | | | (Measured o | on March 27, 19 | 996) | | |
| MW-1 | 2.19 | 15:15 | 0 | 0 | 81.6 | 0.68 | 6.74 |
| | | | 2 | 0.91 | 81.1 | 0.70 | 6.72 |
| | | | 4.5 | 2.05 | 80.8 | 0.69 | 6.71 |
| | | | 6.5 | 2.97 | 80.6 | 0.66 | 6.72 |
| | | 15:25 | 9 | 4.11 | 81.1 | 0.64 | 6.72 |
| MW-4 | 16.78 | 9:35 | 0 | 0 | 71.3 | 0.42 | 6.80 |
| | | | 17 | 1.01 | 74.5 | 0.39 | 6.82 |
| | | | 33.5 | 2.00 | 75.1 | 0.39 | 6.82 |
| | | | 50.5 | 3.01 | 75.2 | 0.38 | 6.82 |
| | | 10:05 | 67.5 | 4.02 | 75.1 | 0.40 | 6.82 |
| MW-5 | 3.68 | 10:40 | 0 | 0 | 74.8 | 0.40 | 6.82 |
| · · · = | - | - | 3.5 | 0.95 | 75.0 | 0.47 | 6.65 |
| | | | 7.5 | 2.04 | 75.2 | 0.47 | 6.64 |
| | | | 11 | 2.99 | 75.5 | 0.46 | 6.64 |
| | | 10:50 | 15 | 4.08 | 75.7 | 0.47 | 6.63 |
| MW-6 | 3.90 | 11:30 | 0 | 0 | 79.0 | 0.41 | 6.71 |
| _ | _ - | - | 4 | 1.03 | 78.7 | 0.44 | 6.68 |
| | | | 8 | 2.05 | 78.5 | 0.43 | 6.68 |
| | | | 12 | 3.08 | 78.8 | 0.42 | 6.68 |
| | | 11:40 | 16 | 4.10 | 79.0 | 0.43 | 6.69 |
| MW-7 | 3.72 | 12:20 | 0 | 0 | 83.5 | 0.40 | 6.80 |
| | - | | 4 | 1.08 | 78.7 | 0.48 | 6.62 |
| | | | 7.5 | 2.02 | 78.0 | 0.47 | 6.61 |
| | | | 11 | 2.96 | 77.5 | 0.48 | 6.62 |
| | | 12:30 | 15 | 4.03 | 77.8 | 0.50 | 6.64 |
| MW-8 | 3.69 | 14:35 | 0 | 0 | 76.8 | 0.61 | 6.69 |
| U | | · - | 3.5 | 0.95 | 76.7 | 0.83 | 6.90 |
| | | | 7.5 | 2.03 | 77.2 | 0.74 | 6.72 |
| | | | 11 | 2.98 | 77.3 | 0.74 | 6.72 |
| | | 14:45 | 15 | 4.07 | 77.0 | 0.74 | 6.69 |

Table 2

Record of the Temperature, Conductivity, and pH values in the Monitoring Wells During Purging and Prior to Sampling

| Well # | Gailons per Casing Volume | Time | Gallons Purged | Casing Volumes Purged | Temperature (°F) | Conductivity ([µmhos/cm] x100) | рĦ |
|--------|---------------------------------|-------|-------------------|-----------------------------|---------------------|--------------------------------------|------|
| | | (M | leasured on Ma | rch 27, 1996 - C | Continued) | | |
| MW-9 | 4.01 | 13:05 | 0 | 0 | 82.0 | 0.43 | 6.65 |
| | | | 4 | 1.00 | 78.5 | 0.36 | 6.74 |
| | | | 8 | 2.00 | 77.2 | 0.40 | 6.78 |
| | | | 12 | 2.99 | 76.5 | 0.41 | 6.76 |
| | | 13:15 | 16.5 | 4.11 | 76.5 | 0.40 | 6.77 |
| MW-10 | 3.23 | 13:50 | 0 | 0 | 81.5 | 0.51 | 6.67 |
| | | | 3 | 0.93 | 77.1 | 0.56 | 6.53 |
| | | | 6.5 | 2.01 | 75.5 | 0.55 | 6.53 |
| | | | 10 | 3.10 | 74.9 | 0.53 | 6.52 |
| | | 14:00 | 13 | 4.02 | 74.5 | 0.55 | 6.51 |

Table 3Summary of Laboratory Analyses
Water

| | | | Wate | r | | |
|------|----------|---------------|----------------|----------------|-----------|---------|
| | | TPH as | | | Ethyl- | |
| Well | Date | Gasoline | Венгене | Toluene | Benzene | Xylenes |
| | | - | | | | |
| MW-1 | 3/27/96 | 120,000 | 920 | 17,000 | 7,100 | 41,000 |
| | 12/29/95 | 110,000 | 990 | 22,000 | 8,300 | 47,000 |
| | 9/28/95 | 100,000 | 810 | 21,000 | 6,500 | 37,000 |
| | 6/26/95 | 130,000 | 1,000 | 23,000 | 5,600 | 33,000 |
| | 3/27/95 | 88,000 | 1,500 | 20,000 | 4,200 | 25,000 |
| | 12/19/94 | 200,000 | 2,400 | 28,000 | 6,600 | 37,000 |
| | 9/21/94 | 110,000 | 2,500 | 23,000 | 4,500 | 25,000 |
| | 6/23/94 | 150,000 | 2,500 | 33,000 | 6,400 | 37,000 |
| | 3/18/94 | 99,000 | 3,800 | 37,000 | 6,800 | 36,000 |
| | 12/13/93 | 140,000 | 3,600 | 37,000 | 7,100 | 40,000 |
| | 9/3/93 | 160,000 | 3,900 | 41,000 | 6,800 | 38,000 |
| | 6/25/93 | 160,000 | 4,300 | 36,000 | 5,800 | 34,000 |
| | 3/3/93 | 330,000 | 3,800 | 21,000 | 4,200 | 24,000 |
| | 11/18/92 | WELL WAS DRY | • | | | |
| | 10/16/92 | WELL WAS DRY | • | | | |
| | 6/18/92 | 680,000 | 9,000 | 40,000 | 7,600 | 44,000 |
| | 3/31/92 | 330,000 | 8,200 | 33,000 | 6,800 | 36,000 |
| | 9/27/91 | WELL WAS DRY | • | | | • |
| | 5/6/91 | | | | | |
| | 2/6/91 | WELL WAS DRY | • | | | |
| | 11/30/90 | WELL WAS DRY | • | | | |
| | 8/24/90 | WELL WAS DRY | - | | | |
| | 7/19/90 | WELL WAS DRY | • | | | |
| | 2/16/90 | WELL WAS DRY | • | | | |
| | 1/27/89 | WELL WAS DRY | • | | | |
| | 10/3/88 | WELL WAS DRY | • | | | |
| | 9/7/88 | WELL WAS DRY | • | | | |
| | 4/27/88 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | 11/19/87 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | 11/13/87 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | 11/5/87 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | 10/6/87 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | 9/24/87 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | 9/23/87 | NOT SAMPLED I | DUE TO THE PRI | ESENCE OF FREE | E PRODUCT | |
| | | | | | | |

Table 3Summary of Laboratory Analyses
Water

| | | TPH as | ,, acc. | | Ethyl- | |
|-----------|---------------------|---------------|---------------|-------------|-------------------|---------|
| Well | Date | Gasoline | Benzene | Toluene | Euryi- Benzene | Xylenes |
| MW-2 | 2/07/06 | MOT CARENT ED | (CONNECTED TO | DELEMAN | OMOTES C | |
| IVI VV -Z | 3/27/96 12/29/95 | 860 | (CONNECTED TO | | • | 50 |
| | 9/28/95 | 730 | 4.3 | 1.0 | 27 | 50 |
| | 6/26/95 | ND | 2.9 | ND | 41 | 29 |
| | 3/27/95** | ND ND | ND ND | 0.93 | 0.88 | 3.4 |
| | 12/19/94 | | ND | 0.55 | 1.2 | 2.5 |
| | | 190 | 1.9 | ND | 15 ND | 6.8 |
| | 9/21/94 | ND | ND | ND | ND | ND |
| | 6/23/94 | 420 | 3.9 | 0.66 | 23 | 11 |
| | 3/18/94 | 250 | 6.4 | 0.64 | 28 | 24 |
| | 12/13/93 | 260 | 7.7 | 0.83 | 17 | 23 |
| | 9/3/93 | 1,400 | 31 | 4.3 | 99 | 53 |
| | 6/25/93 | 4,000 | 110 | ND | 320 | 280 |
| | 3/3/93 | 4,200 | 62 | 2.9 | 97 | 120 |
| | 11/18/92 | 65 | 1.2 | ND | 2.8 | 1.4 |
| | 10/16/92 | | | | | |
| | 9/30/92 | 820 | 21 | ND | 42 | 25 |
| | 6/18/92 | 1,200 | 35 | 1.6 | 56 | 26 |
| | 12/27/91 | 170 | 3.9 | ND | 7.3 | 60 |
| | 9/27/91 | 110 | 2.6 | ND | 5.6 | 5.1 |
| | 5/6/91 | 2,300 | 150 | 10 | 52 | 110 |
| | 2/7/91 | 510 | 40 | ND | 29 | 44 |
| | 11/30/90 | 400 | 41 | ND | 39 | 37 |
| | 8/24/90 | 330 | 17 | ND | 19 | 20 |
| | 7/19/90 | | | | | |
| | 2/16/90 | 840 | 50 | 0.5 | 28 | 44 |
| | 1/27/89 | 510 | 58 | 8.7 | 22.6 | 20.3 |
| | 10/3/88 | 1,760 | 47.8 | 7.4 | 20.9 | 81.6 |
| | May-90 | 1,000 | 39 | ND | 32 | 52 |
| MW-3 | 3/27/96 | NOT SAMPLED | (CONNECTED TO | REMEDIATION | SYSTEM) | |
| | 12/29/95▼▼ | 55,000 | 700 | ND | 4,900 | 16,000 |
| | 9/28/95∀ | 17,000 | 730 | 30 | 4,000 | 8,800 |
| | 6/26/95 | 14,000 | 300 | ND | 1,300 | 3,900 |
| | 3/27/95** | 33,000 | 410 | 66 | 1,600 | 6,500 |
| | 12/19/94 | 100,000 | 1,200 | 2,900 | 4,200 | 23,000 |
| | 9/21/94 | 24,000 | 890 | 110 | 2,200 | 8,800 |
| | 6/23/94 | 37,000 | 1,300 | 670 | 3,100 | 14,000 |
| | 3/18/94 | 22,000 | 1,200 | 430 | 2,200 | 9,700 |
| | 12/13/93 | 49,000 | 1,300 | 360 | 2,300 | 9,200 |
| | 9/3/93 | 82,000 | 2,400 | 3,400 | 4,200 | 21,000 |
| | | | | | | |

Table 3
Summary of Laboratory Analyses
Water

| | water | | | | | |
|---------|----------|--------------------|-------------|---------|-------------------|---------|
| Well | Date | TPH as Gasoline | Веплепе | Toluene | Ethyl- Benzene | Xylenes |
| MW-3 | | | | | - | |
| (Cont.) | 6/25/93 | 27,000 | 1,200 | 980 | 1.700 | C 000 |
| (, | 3/3/93 | 96,000* | 1,400 | 1,900 | 1,700 | 6,900 |
| | 11/18/92 | 24,000* | 430 | 1,900 | 1,400 | 8,400 |
| | 10/16/92 | | | | 640 | 2,800 |
| | 9/30/92 | 36,000 | 730 | 200 | 1.000 | 4.400 |
| | 6/18/92 | 180,000 | 2,200 | | 1,000 | 4,400 |
| | 3/31/92 | 100,000 | 1,900 | 1,700 | 2,300 | 1,100 |
| | 12/27/91 | 31,000 | 240 | 1,900 | 2,300 | 9,400 |
| | 9/27/91 | 4,000 | | 280 | 400 | 1,600 |
| | 5/6/91 | 39,000 | 160 | 84 | 180 | 560 |
| | 2/6/91 | | 1,000 | 570 | 930 | 3,900 |
| | 11/30/90 | 13,000 | 310 | 150 | 380 | 1,200 |
| | 8/24/90 | 13,000 | 390 | 81 | 410 | 1,000 |
| | | 19,000 | 480 | 160 | 510 | 1,500 |
| | 7/19/90 | | | | | |
| | 2/16/90 | 22,000 | 710 | 4,100 | 6,900 | 33,000 |
| | 1/27/89 | 39,000 | 1,570 | 2,830 | 1,250 | 7,070 |
| | 10/3/88 | 61,000 | 1,060 | 3,380 | 1,520 | 8,720 |
| | May-90 | 19,000 | 330 | 170 | 310 | 1,500 |
| MW-4 | 3/27/96 | ND | ND | 0.70 | ND | 0.79 |
| | 12/29/95 | SAMPLED SEMI-A | NNUALLY | | | |
| | 9/28/95▼ | ND | ND | ND | ND | ND |
| | 6/26/95 | SAMPLED SEMI-A | NNUALLY | | | |
| | 3/27/95 | ND | ND | 0.79 | 0.5 | 3.1 |
| | 12/19/94 | SAMPLED SEMI-AI | NNUALLY | | | |
| | 9/21/94 | ND | ND | 0.78 | ND | 0.81 |
| | 3/18/94 | ND | ND | ND | ND | ND |
| | 12/13/93 | SAMPLED SEMI-A | NNUALLY | | | |
| | 9/3/93 | 86 | 14 | 13 | 1.4 | 7.1 |
| | 6/25/93 | NOT SAMPLED | | | | |
| | 3/3/93 | 68 | 0.9 | 0.6 | ND | 1.9 |
| | 11/18/92 | NOT SAMPLED | | | | |
| | 10/16/92 | ND | ND | ND | ND | ND |
| | 6/18/92 | ND | ND | ND | ND | ND |
| | 3/31/92 | ND | ND | ND | ND | ND |
| | 12/27/91 | ND | ND | ND | ND | ND |
| | 9/27/91 | ND | ND | ND | ND | ND |
| | 5/6/91 | | | <u></u> | | |
| | 2/6/91 | ND | ND | ND | ND | ND |
| | 11/30/90 | ND | ND | ND | ND | 1.2 |
| | 8/24/90 | ND | ND | ND | ND | ND |
| | 7/19/90 | | | | | |
| | | | | | | |

Table 3Summary of Laboratory AnalysesWater

| *************************************** | | | water | | | | | | |
|---|----------|-----------------------|-----------------------|---------|-------------------|---------|--|--|--|
| Well | Date | TPH as Gasoline | Benzene | Toluene | Ethyl- Benzene | Xylenes | | | |
| | | - | | | | Ayenes | | | |
| MW-4 | | | | | | | | | |
| (Cont.) | May-90 | ND | ND | ND | 0.68 | 1.4 | | | |
| | 2/16/90 | ND | ND | ND | ND | ND | | | |
| | 1/27/89 | ND | ND | ND | ND | ND | | | |
| | 10/3/88 | ND | ND | ND | ND | ND | | | |
| MW-5 | 3/27/96 | ND | ND | 1.7 | ND | 2.4 | | | |
| | 12/29/95 | SAMPLED SEMI- | SAMPLED SEMI-ANNUALLY | | | | | | |
| | 9/28/95 | ND | ND | ND | ND | ND | | | |
| | 6/26/95 | SAMPLED SEMI- | ANNUALLY | | | | | | |
| | 3/27/95 | ND | ND | 0.66 | ND | 2.9 | | | |
| | 12/19/94 | SAMPLED SEMI-ANNUALLY | | | | | | | |
| | 9/21/94 | ND | ND | 0.98 | ND | 1.6 | | | |
| | 3/18/94 | ND | ND | ND | ND | ND | | | |
| | 12/13/93 | SAMPLED SEMI-ANNUALLY | | | | | | | |
| | 9/3/93 | ND | ND | 1.5 | ND | 7.9 | | | |
| | 6/25/93 | WELL WAS INACCESSIBLE | | | | | | | |
| | 3/3/93 | ND | ND | ND | ND | ND | | | |
| | 11/18/92 | NOT SAMPLED | | | | | | | |
| | 10/16/92 | ND | ND | ND | ND | ND | | | |
| | 6/18/92 | | | | | | | | |
| | 3/31/92 | ND | ND | ND | ND | 1.1 | | | |
| | 12/27/91 | ND | ND | ND | ND | ND | | | |
| | 9/27/91 | ND | ND | ND | ND | ND | | | |
| | 5/6/91 | | | | | | | | |
| | 2/6/91 | ND | ND | ND | ND | ND | | | |
| | 11/30/90 | ND | ND | 0.7 | ND | ND | | | |
| | 8/24/90 | ND | ND | ND | ND | ND | | | |
| | 7/19/90 | | | | | | | | |
| | 2/16/90 | 67 | 0.51 | 1.6 | 2.9 | 7.5 | | | |
| | May-90 | ND | ND | ND | ND | ND | | | |
| | | | | | | | | | |

Table 3
Summary of Laboratory Analyses
Water

| (0)000000000000000000000000000000000000 | | | wate | Ţ | ~ | | | | |
|---|----------|--------------------|--|---------|-------------------|-----------|--|--|--|
| Well | Date | TPH as Gasoline | Веплене | Toluene | Ethyl- Benzene | Xulanac | | | |
| | | · | | | | 21,71.003 | | | |
| MW-6 | 3/27/96 | 50 | ND | 0.92 | ND | 0.96 | | | |
| | 12/29/95 | SAMPLED SEMI- | ANNUALLY | | | 0.70 | | | |
| | 9/28/95 | ND | ND | ND | ND | ND | | | |
| | 6/26/95 | SAMPLED SEMI- | ANNUALLY | | | | | | |
| | 3/27/95 | 56 | ND | 0.65 | ND | 3.3 | | | |
| | 12/19/94 | SAMPLED SEMI- | ANNUALLY | | | | | | |
| | 9/21/94 | ND | ND | ND | ND | ND | | | |
| | 3/18/94 | ND | ND | 0.93 | ND | | | | |
| | 12/13/93 | SAMPLED SEMI-A | Soline Betzene Toluene Betzene Xylenes | | | | | | |
| | 9/3/93 | ND | ND | ND | ND | ND | | | |
| | 6/25/93 | NOT SAMPLED | | | | | | | |
| | 3/3/93 | ND* | ND | ND | ND | ND | | | |
| | 11/18/92 | NOT SAMPLED | | | | | | | |
| | 10/16/92 | ND | ND | ND | ND | ND | | | |
| | 6/18/92 | ND | ND | ND | ND | ND | | | |
| | 3/31/92 | ND | ND | 1.3 | ND | 2 | | | |
| | 12/27/91 | ND | ND | ND | ND | ND | | | |
| | 9/27/91 | ND | ND | ND | ND | ND | | | |
| | 5/6/91 | | | | | | | | |
| | 2/6/91 | | ND | ND | ND | ND | | | |
| | 11/30/90 | | | ND | ND | ND | | | |
| | 8/24/90 | | | ND | ND | ND | | | |
| | 7/19/90 | | ND | ND | ND | ND | | | |
| | 2/16/90 | | | ND | ND | ND | | | |
| | May-90 | ND | ND | ND | ND | ND | | | |
| MW-7 | 3/27/96 | ND | ND | 1.1 | ND | 1.7 | | | |
| | 12/29/95 | SAMPLED SEMI-A | ANNUALLY | | | | | | |
| | 9/28/95▼ | | | ND | ND | ND | | | |
| | 6/26/95 | SAMPLED SEMI-A | NNUALLY | | | | | | |
| | 3/27/95 | ND | ND | 0.54 | ND | 1.9 | | | |
| | 12/19/94 | SAMPLED SEMI-A | NNUALLY | | | | | | |
| | 9/21/94 | ND | 0.5 | ND | ND | 0.89 | | | |
| | 3/18/94 | | | ND | ND | ND | | | |
| | 12/13/93 | | ANNUALLY | | | | | | |
| | 9/3/93 | | ND | ND | ND | ND | | | |
| | 6/25/93 | | | | | | | | |
| | 3/3/93 | | ND | ND | ND | ND | | | |
| | 11/18/92 | | | | | | | | |
| | 10/16/92 | | | ND | ND | ND | | | |
| | 6/18/92 | | | | | | | | |
| | 3/31/92 | ND | ND | ND | ND | 0.9 | | | |
| | 12/27/91 | ND | ND | ND | ND | ND | | | |

Table 3
Summary of Laboratory Analyses
Water

| | | TPH as | | | Ethyl- | |
|---------|------------|--------------|-----------|----------|----------|------------------|
| Well | Date | Gasoline | Benzene | Toluene | Benzene | Xylenes |
| MW-7 | 9/27/91 | ND | ND | ND | NID | ND |
| (Cont.) | 5/6/91 | ND ND | ND ND | ND ND | ND ND | ND ND |
| (Cont.) | 2/6/91 | ND | ND ND | ND ND | ND ND | ND |
| | 11/30/90 | ND | ND ND | ND ND | | ND |
| | 8/24/90 | ND ND | ND ND | ND ND | 0.6 | 1.5 |
| | 7/19/90 | | ND | ND | ND | ND |
| | 2/16/90 | ND | ND | ND | ND | ND |
| | May-90 | 24 | ND ND | ND ND | 0.74 | ND 1.7 |
| | 141ay-50 | 24 | ND | ND | 0.74 | 1.7 |
| MW-8 | 3/27/96 | 970 | 29 | 0.77 | 82 | 85 > C |
| | 12/29/95∀∀ | 7,500 | 260 | ND | 580 | 870 |
| | 9/28/95∀ | 10,000 | 250 | ND | 760 | 910 |
| | 6/26/95 | 11,000 | 320 | ND | 680 | 910 2,000 |
| | 3/27/95** | 9,200 | 240 | ND | 200 | 1,400 |
| | 12/19/94 | 6,200 | 91 | ND | 230 | 210 |
| | 9/21/94 | 6,900 | 190 | ND | 460 | 510 |
| | 6/23/94 | 12,000 | 210 | ND | 610 | 860 |
| | 3/18/94 | 6,100 | 85 | ND | 260 | 260 |
| | 12/13/93 | 6,900 | 180 | ND | 240 | 550 |
| | 9/3/93 | 9,800 | 180 | ND | 580 | 700 |
| | 6/25/93 | 8,100 | 160 | ND | 580 | 740 |
| | 3/3/93 | 13,000 | 33 | ND | 160 | 290 |
| | 11/18/92 | 1,100 | 6.1 | ND | 13 | 5.6 |
| | 10/16/92 | 300 | 0.96 | ND | 4.0 | 3.5 |
| | 6/18/92 | WELL WAS INA | CCESSIBLE | | | |
| | 3/31/92 | 15,000 | 120 | 1.0 | 430 | 530 |
| | 12/27/91 | 1,600 | 15 | 2.9 | 40 | 49 |
| | 9/27/91 | 720 | 13 | 4.3 | 26 | 26 |
| | 5/6/91 | 14,000 | 80 | ND | 250 | 550 |
| | 2/6/91 | 630 | 9.6 | ND | 35 | 36 |
| | 11/30/90 | 570 | 13 | ND | 45 | 36 |
| | 8/24/90 | 990 | 13 | ND | 48 | 66 |
| | 7/19/90 | | | | | |
| | 2/16/90 | 1,900 | 11 | ND | 52 | 55 |
| | May-90 | 770 | 6.5 | ND | 20 | 32 |
| MW-9 | 3/27/96 | ND | ND | 0.68 | ND | 0.51 |
| ·- | 12/29/95 | ND | ND | 0.58 | ND | 0.52 |
| | 9/28/95 | ND | ND | ND | ND | ND |
| | 6/26/95 | ND | ND | ND | ND | 3.9 |
| | 3/27/95 | ND | ND | 0.61 | ND | 2.8 |
| | 12/19/94 | ND | ND | 1.6 | 1.5 | 8.4 |

Table 3
Summary of Laboratory Analyses
Water

| W. 13 | . | TPH as Gasoline | | | | |
|-------|----------|-----------------|---------|---------|---------|---------|
| Wen | Date | Gasonne | Веплепе | Toluene | Benzene | Xylenes |
| MW-10 | 3/27/96 | ND | ND | 0.68 | ND | 0.69 |
| | 12/29/95 | ND | ND | 0.65 | ND | 1.1 |
| | 10/24/95 | ND | ND | ND | ND | ND |
| | 7/28/95 | 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.
- \forall 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 ground water sample collected from this well.
- * Chromatogram contains early eluting peak.
- ** On March 27, 1995, total dissolved solid concentrations were as follows: MW-2 at 410 μg/L; MW3 at 450 μg/L; MW8 at 490 μg/L.
- On March 27, 1996, MTBE was non-detectable in all wells, except in well MW-1 where MTBE was detected at a concentration of 180 μg/L.

ND = Non-detectable.

-- Indicates analysis was not performed.

Results are in micrograms per liter (µg/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 13, 1993, were provided by RESNA.

Table 4
Summary of Monitoring Data
Dissolved Oxygen Concentration Measurements

| Well# | Date | | ived Oxygen (mg/L) | |
|-------|----------|----------------|-----------------------|--|
| | | Before Purging | After Purging | |
| MW-1 | 3/27/96 | 1.48 | | |
| MW-2 | 3,211,70 | | 1.02 | |
| MW-3 | | | | |
| MW-4 | | 4.32 | 3.91 | |
| MW-5 | | 4.03 | 4.71 | |
| MW-6 | | 5.94 | 4.96 | |
| MW-7 | | 6.63 | 5.23 | |
| MW-8 | | 11.73 | 9.76 | |
| MW-9 | | 5.62 | 5.23 | |
| MW-10 | | 4.38 | 4.57 | |
| | | 1.30 | 4.57 | |
| MW-1 | 12/29/95 | | 1.74 | |
| MW-2 | | | 8.71 | |
| MW-3 | | | 6.97 | |
| MW-4 | | | | |
| MW-5 | | | | |
| MW-6 | | | | |
| MW-7 | | | | |
| MW-8 | | | 2.03 | |
| MW-9 | | | 5.32 | |
| MW-10 | | | 5.11 | |
| | | | | |
| MW-1 | 9/28/95 | | 1.22 | |
| MW-2 | | | 3.00 | |
| MW-3 | | | 1.63 | |
| MW-4 | | | 6.29 | |
| MW-5 | | | 1.96 | |
| MW-6 | | | 4.19 | |
| MW-7 | | | 2.04 | |
| MW-8 | | | 1.85 | |
| MW-9 | | | 5.76 | |
| | | | | |
| MW-1 | 6/26/95 | ~~ | 1.60 | |
| MW-2 | | | 4.55 | |
| MW-3 | | | 1.55 | |
| MW-4 | | | | |
| MW-5 | | | | |
| MW-6 | | | | |
| MW-7 | | | | |
| MW-8 | | | 3.86 | |
| MW-9 | | | 4.61 | |
| | | | | |

Table 4
Summary of Monitoring Data
Dissolved Oxygen Concentration Measurements

| ************************************** | *************************************** |
|--|---|
| | |
| • | |
| Wall # Tinte (mar/1) | |
| Well # Date (mg/L) | *************************************** |
| The state of the s | |
| | |

| | | Before Purging | After Purging |
|------|----------|----------------|---------------|
| MW-1 | 3/27/95* | | 1.5 |
| MW-2 | | | 1.7 |
| MW-3 | | | 0.90 |
| MW-4 | | | 4.90 |
| MW-5 | | | 5.20 |
| MW-6 | | | 7.4 |
| MW-7 | | | 8.4 |
| MW-8 | | | 2.2 |
| MW-9 | | No. also | 7.8 |

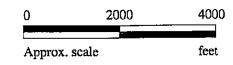
^{*} Measurements taken at Sequoia Analytical Laboratory.

mg/L = milligrams per liter.

⁻⁻ Indicates reading was not taken.

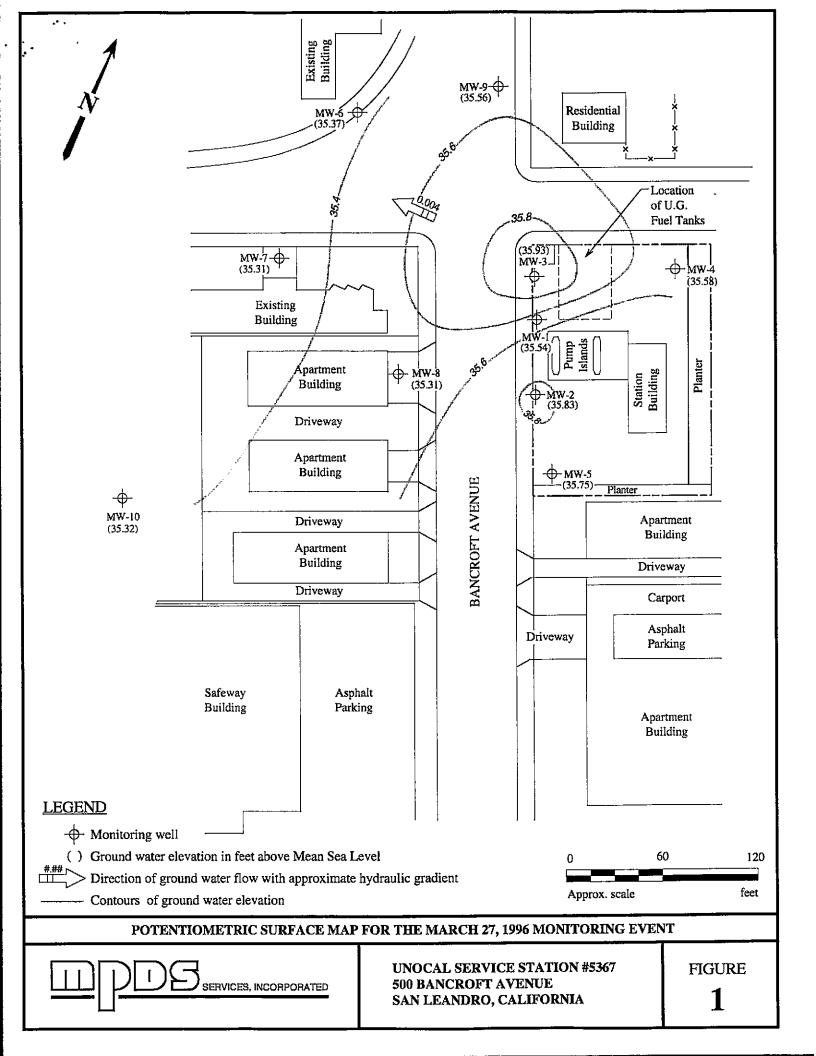


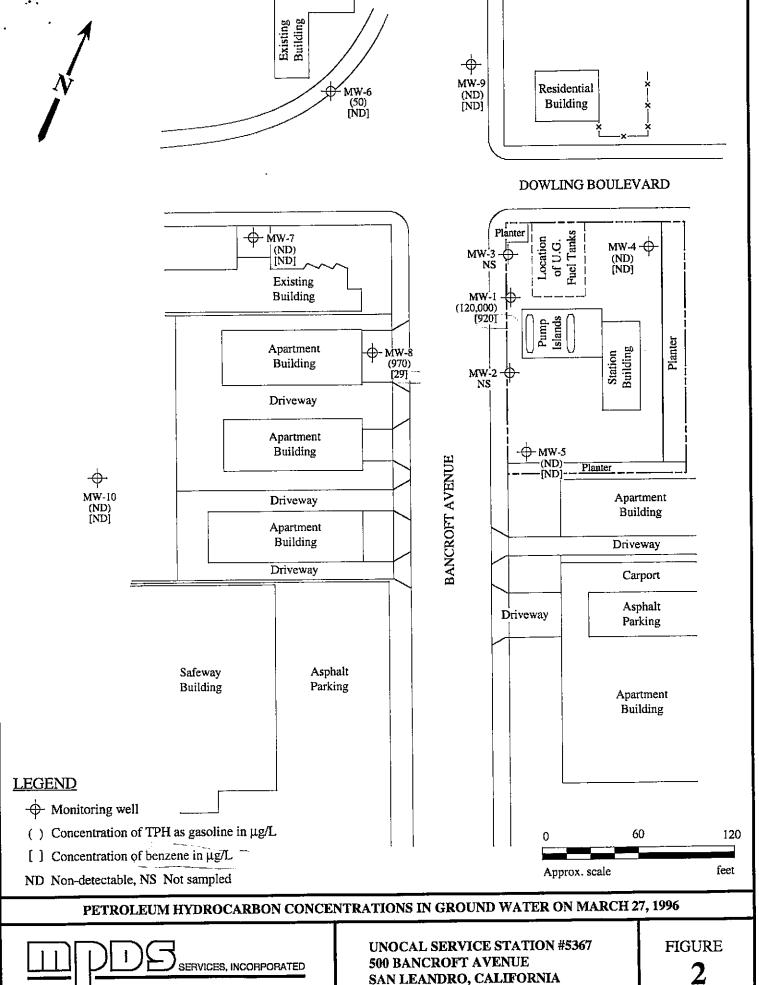
Base modified from 7.5 minute U.S.G.S. San Leandro Quadrangle (photorevised 1980)





UNOCAL SERVICE STATION #5367 500 BANCROFT AVENUE SAN LEANDRO, CALIFORNIA LOCATION MAP







680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPD\$ Services 2401 Stanwell Dr., Ste. 300 Concord, CA 94520

Client Project ID: Matrix Descript: Analysis Method: Unocal #5367, 500 Bancroft Ave., Water

San Leandro

Sampled: Received:

Mar 27, 1996 Mar 27, 1996

Attention: Jarrel Crider First Sample #:

EPA 5030/8015 Mod./8020 603-2478

Reported: Apr 19, 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 | ΜΤΒ μg/L |
|-------------------|-----------------------|-----------------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------|
| 603-2478 | MW-1 | 120,000 | 920 | 17,000 | 7,100 | 41,000 | 180 |
| 603-2479 | MW-4 | ND | ND | 0.70 | ND | 0.79 | N.D. |
| 603-2480 | MW-5 | ND | ND | 1.7 | ND | 2.4 | N.D. |
| 603-2481 | MW-6 | 50 | ND | 0.92 | ND | 0.96 | N.D. |
| 603-2482 | MW-7 | ND | ND | 1.1 | 1.1 ND | | N.D. |
| 603-2483 | MW-8 | 970 | 29 | 0.77 | 82 | 85 | N.D. |
| 603-2484 | MW-9 | ND | ND | 0.68 | ND | 0.51 | N.D. |
| 603-2485 | MW-10 | ND | ND | 0.68 | ND | 0.69 | N.D. |
| 603-2486 | ES-1 | ND | ND | ND | ND | ND | |
| 603-2487 | ES-2 | ND | ND | ND | ND | ND | |
| 603-2488 | ES-3 | ND | ND | ND | ND | ND | |
| Detection Limits: | | 50 | 0.50 | 0.50 | 0.50 | 0.50 | 40 |

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





680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

MPDS Services

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

Client Project ID: Matrix Descript:

Analysis Method:

Unocal #5367, 500 Bancroft Ave.,

Water EPA 5030/8015 Mod./8020

San Leandro

Sampled: Mar 27, 1996 Mar 27, 1996 Received: Apr 19, 1996 Reported:

First Sample #:

603-2478

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 |
|------------------|-----------------------|-------------------------|--------------------|------------------|------------------|--|
| 603-2478 | MW-1 | Gasoline | 200 | 4/9/96 | HP-11 | 100 |
| 603-2479 | MW-4 | | 1.0 | 4/9/96 | HP-11 | 96 |
| 603-2480 | MW-5 | | 1.0 | 4/9/96 | HP-11 | 97 |
| 603-2481 | MW-6 | Gasoline | 1.0 | 4/9/96 | HP-11 | 96 |
| 603-2482 | MW-7 | | 1.0 | 4/9/96 | HP-11 | 95 |
| 603-2483 | MW-8 | Gasoline | 1.0 | 4/9/96 | HP-11 | 103 |
| 603-2484 | MW-9 | | 1.0 | 4/9/96 | HP-11 | 94 |
| 603-2485 | MW-10 | | 1.0 | 4/9/96 | HP-11 | 98 |
| 603-2486 | ES-1 | | 1.0 | 4/17/96 | HP-9 | 98 |
| 603-2487 | ES-2 | | 1.0 | 4/17/96 | HP-9 | 102 |
| 603-2488 | ES-3 | | 1.0 | 4/17/96 | HP-9 | 98 |

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





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

MPDS Services

2401 Stanwell Dr., Ste. 300 Concord, CA 94520 Attention: Jarrel Crider Client Project ID:

Unocal #5367, 500 Bancroft Ave., San Leandro

Matrix: Liquid

QC Sample Group: 6032478-488

Reported:

Apr 19, 1996

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl | Xylenes |
|--|---------------|---------------|---------------------|---------------------|
| | | | Benzene | - |
| Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Analyst: | S. Chullakorn | S. Chullakorn | S. Chullakorn | S. Chullakorn |
| MS/MSD | | | | |
| Batch#: | 6032398 | 6032398 | 6032398 | 6032398 |
| Date Prepared: | 4/9/96 | 4/9/96 | 4/9/96 | 4/9/96 |
| Date Analyzed: | 4/9/96 | 4/9/96 | 4/9/96 | 4/9/96 |
| Instrument I.D.#: | HP-11 | HP-11 | HP-11 | HP-11 |
| Conc. Spiked: | 20 μg/L | 20 μg/L | $20\mu\mathrm{g/L}$ | $60\mu\mathrm{g/L}$ |
| Matrix Spike | | | | |
| % Recovery: | 145 | 120 | 130 | 133 |
| Matrix Spike Duplicate % | | | | |
| Recovery: | 130 | 115 | 120 | 121 |
| Relative % | | | | |
| Difference: | 11 | 4.2 | 8.0 | 9.1 |
| \$0000\$00000000000000000000000000000000 | | **** | | |

| LCS Batch#: | 11LCS040996 | 11LCS040996 | 11LCS040996 | 11LCS040996 |
|-------------------|-------------|-------------|-------------|-------------|
| Date Prepared: | 4/9/96 | 4/9/96 | 4/9/96 | 4/9/96 |
| Date Analyzed: | 4/9/96 | 4/9/96 | 4/9/96 | 4/9/96 |
| Instrument I.D.#: | HP-11 | HP-11 | HP-11 | HP-11 |
| LCS % | | | | |
| Recovery: | 120 | 105 | 110 | 118 |
| % Recovery | | | | |
| Control Limits: | 71-133 | 72-128 | 72-130 | 71-120 |

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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

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tol: (510) 602-5100 Fee: (510) 689-1918

| SAMPLER | | | | AL # 53 | 367 | CITY: SAN CE | | | TURN AROUND TIM | | | | | | |
|--------------------|----------------|--------------------------|--|-----------------|---|--------------|-------------------------|---|-----------------|----------|------------|------------|------------|---------------|-----------------------------|
| NICHOLAS PERROW | | | S/S # 5367 CITY: SAN CEAUDICO. ADDRESS: SOO BAUCISIT AUF. WATER GRAB COMP NO. OF CONT. SAMPLING LOCATION | | | | | I-GAS | TPH- DIESEL | 67 | | MTBE | | | REG. |
| SAMPLE ID NO. | DATE | TIME | WATER | GRAB | СОМР | NO. OF CONT. | SAMPLING | TE | TP | TOG | 8010 | ž | | | REMARKS |
| MW-1 | 3/27/96 | 15:40 | V | W | | 4 VOAS | WEU | 1 | | | | V | | | 6032478 A-D |
| Mw-4 | 11 | 10:20 | | _ | | 17 | 11 | ~ | | | | <u></u> | | | 6032479 |
| MW-5 | 1/ | 11:10 | _ | | | 11 | ч | / | | | ļ | _ | | | <u>60</u> 32480 |
| mw-6 | ч | 12100 | C | | | 1/ | 1/ | ~ | | | | ~ | | | 6032481 |
| mw-7 | 1/ | 12.50 | ~ | _ | | 11 | 1/ | / | | | | _ | | | <u>60</u> 32482 \ |
| 7w-8 | t _f | 15:00 | <u>_</u> | | | 11 | 11 | / | | | | <u></u> | | | 6032483 |
| mw-9 | 1/ | 13:30 | <u></u> | ~ | | 11 | 1/ | ~ | | | | | | | 6032484 |
| MW-10 | i, | 14:15 | <u>_</u> | _ | | 17 | 11 | ~ | | | | | | | <u>5</u> 032485 V |
| | | | _ | | | | | | | | | | | | |
| RELINQUIS | HEN BY: | DATE/I | IME | | F | ECEIVED BY: | D/ | ATE/TIME | THE FO | LLOWING | MUST BE C | OMPLETED | BY THE LAI | BORATORY ACC | EPTING SAMPLES FOR ANALYSES |
| RELINGOIS | neo or. | 2 777-77 | | | | | | | 1. HAVE | ALL SAMP | Les receiv | /ED FOR AN | ALYSIS BEE | N STORED ON I | CE? |
| SIGNATURES 5/27/50 | | 3/27/50 18:20 | , , | (SIGN | ATURE | 1/2001 | 1 | 27-76 2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? 8-25 3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? | | | | | | | |
| SIGNATURE) | | (SIGNATURE) (SIGNATURE) | | | 3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? 28 4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? | | | | | | | | | | |
| GNATURE) | 02 | 32 | 4 | | | | | | | | | | DATE: | | |
| GNATURE) | (SIGNATURE) | | | (SIGNATUREN) // | | | 16:00 SIGNATURE: TITLE: | | | | | ,,,==, | Write: | | |

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

9603531

| SAMPLER NYCHOL A.G. DEPENDON | | | UNOCAL S/S # 5567 CITY: SAN LEANDRO | | | | | ANALYSES REQUESTED | | | | | | | | TURN AROUND TIME: | |
|-----------------------------------|----------------|--|--|-------|---|----------------|--------------|--|--|-----------|-----------|-------------|-----------|----------|----------|-------------------|--|
| NICHOLAS PERROW WITNESSING AGENCY | | UNOCAL S/S # 5567 CITY: SAN LEANPRO ADDRESS: 500 BANCROFT AVE WATER GRAB COMP NO. OF CONT. SAMPLING LOCATION | | | PH-GAS | TPH- DIESEL | TOG | 8010 | <u>-</u> | | | : | RE (| | | | |
| SAMPLE ID NO. | DATE | TIME | WATER | GRAB | СОМР | NO. OF CONT. | LOCATION | EM | II I | T | 80 | | | | | REMARKS | |
| ES-1 | 3/27/16 | | V | | | 1 Vo.A | | / | | | | : | | | | 6032486 | |
| FS -2 | 11 | | / | | | 11 | | | | | | | | | | 6032487 | |
| FES -3 | l _i | | / | | | ч | | | | | | | | | | 6032488 | |
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| | | | | | | | | | | | | | | | | - PK | |
| RELINQUISH | ED BY: | DATE/T | IME | | R | ECEIVED BY: | DA | TE/TIME | E/TIME THE FOLLOWING MUST BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES: | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| (SIGNATURE) 3/27/5 | | ر > | (SIGN | ATURE | for | 3- | 21-96 825 | 7-90 2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? | | | | | | | | | |
| (SIGNATURE) | | (SIGNATURE) | | | 3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? | | | | | | | | | | | | |
| (SIGNATURE) | | | | (SIGN | ATURE |) | | <u> </u> | 4. WERE | SAMPLES I | IN APPROP | RIATE CON | TAINERS A | ND PROPE | RLY PACK | AGED7 | |
| (SIGNATURE) | | | | (SIGN | ATURE | Wooder | 3- | 16:00 28-96 | SIGNAT | URE: | | | | TIT | LE: | DATE: | |

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.