MONITORING
PURGING
DISPOSING
SAMPLING
MPDS SERVICES, INCORPORATED



April 6, 1995

Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

RE: Unocal Service Station #5781
3535 Pierson Street
Oakland, California

9469

Per the request of the Unocal Corporation Project Manager, Mr. Edward C. Ralston, enclosed please find our report (MPDS-UN5781-02) dated March 7, 1995, 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) 277-2311.

Sincerely,

MPDS Services, Inc.

Brenda Pepito

/bp

Enclosure

cc: Mr. Edward C. Ralston

2401 Stanwell Drive, Suite 300, Concord, CA 94520
TEL: (510) 602-5120 FAX: (510) 689-1918

MONITORING PURGING DISPOSING SAMPLING

MPDS SERVICES, INCORPORATED

MPDS-UN5781-02
March 7, 1995

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

Attention: Mr. Edward C. Ralston

RE: Annual Data Report
Unocal Service Station #5781
3535 Pierson Street
Oakland, California

Dear Mr. Ralston:

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

RECENT FIELD ACTIVITIES

Monitoring well MWA was monitored and sampled once during this annual period as indicated in Table 1. Prior to sampling, the well was 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 monitoring well location and ground water elevation is shown on the attached Figure 1.

A ground water sample was collected on February 9, 1995. Prior to sampling, the well was purged of 21 gallons of water. A sample was then collected using a clean Teflon bailer. The sample was 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. 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 sample was analyzed at Sequoia Analytical Laboratory and was accompanied by properly executed Chain of Custody documentation. The analytical results of the ground water samples collected to date are summarized in Table 2. The concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene detected in the ground water sample collected this period are shown on the attached Figure 2. Copies of the laboratory analytical results and the Chain of Custody documentation are attached to this report.

2401 Stanwell Drive, Suite 300, Concord, CA 94520
TEL: (510) 602-5120 FAX: (510) 689-1918

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 Ms. Susan Hugo of the Alameda County Health Care Services Agency, and to the Regional Water Quality Control Board, San Francisco Bay Region.

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.

Sarkis Karkarian
Staff Engineer

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


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

/jfc

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

cc: Mr. Thomas Berkins, Kaprealian Engineering, Inc.

**TABLE 1**

SUMMARY OF MONITORING DATA

| Well # | Ground Water Elevation (feet) | Depth to Water (feet)◆ | Total Well Depth (feet)◆ | Product Thickness (feet) | Sheen | Water Purged (gallons) |
|---|---|---|---|---|---|---|
| **(Monitored and Sampled on February 9, 1995)** | | | | | | |
| MWA | 136.12 | 15.68 | 45.10 | 0 | No | 21 |
| **(Monitored and Sampled on February 10, 1994)** | | | | | | |
| MWA | 136.55 | 15.25 | 44.93 | 0 | No | 21 |
| **(Monitored and Sampled on February 10, 1993)** | | | | | | |
| MWA | 134.34 | 17.71 | | 0 | No | 19 |
| **(Monitored and Sampled on August 4, 1992)** | | | | | | |
| MWA | 133.10 | 18.95 | | 0 | No | 18 |

| Well # | Well Cover Elevation (feet)* | Well Casing Elevation (feet)** |
|---|---|---|
| MWA | 152.05 | 151.80 |

◆ The depth to water level and total well depth measurement was taken from the top of the well casing. Prior to February 10, 1994, the depth to water level and total well depth measurement was taken from the top of the well cover.

* The elevation of the top of the well cover has been surveyed relative to Mean Sea Level (MSL) (elevation = 119.80 MSL).

** Relative to MSL.

Note: Monitoring data prior to February 10, 1994, were provided by Kaprealian Engineering, Inc.

**TABLE 2**

SUARY OF LABORATORY ANALYSES
WATER

| Date | Well # | TPH as Diesel | TPH as Gasoline | Benzene | Toluene | Ethyl-benzene | Xylenes |
|---|---|---|---|---|---|---|---|
| 2/09/95 | MWA* | ND | ND | ND | ND | ND | ND |
| 2/10/94 | MWA* | ND | ND | ND | 0.52 | ND | 0.92 |
| 2/10/93 | MWA* | ND | ND | ND | ND | ND | ND |
| 8/04/92 | MWA* | ND | ND | ND | ND | ND | 0.51 |
| 2/06/92 | MWA* | ND | ND | ND | ND | ND | ND |
| 11/08/91 | MWA* | ND | ND | ND | ND | ND | ND |
| 8/07/91 | MWA* | ND | ND | ND | ND | ND | ND |
| 5/03/91 | MWA* | ND | ND | ND | ND | ND | ND |
| 12/18/90 | MWA* | 73 | ND | ND | ND | ND | ND |

* TOG and all EPA method 8010 compounds were non-detectable.

ND = Non-detectable.

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

Note: Laboratory analyses data prior to February 10, 1994, were provided by Kaprealian Engineering, Inc.

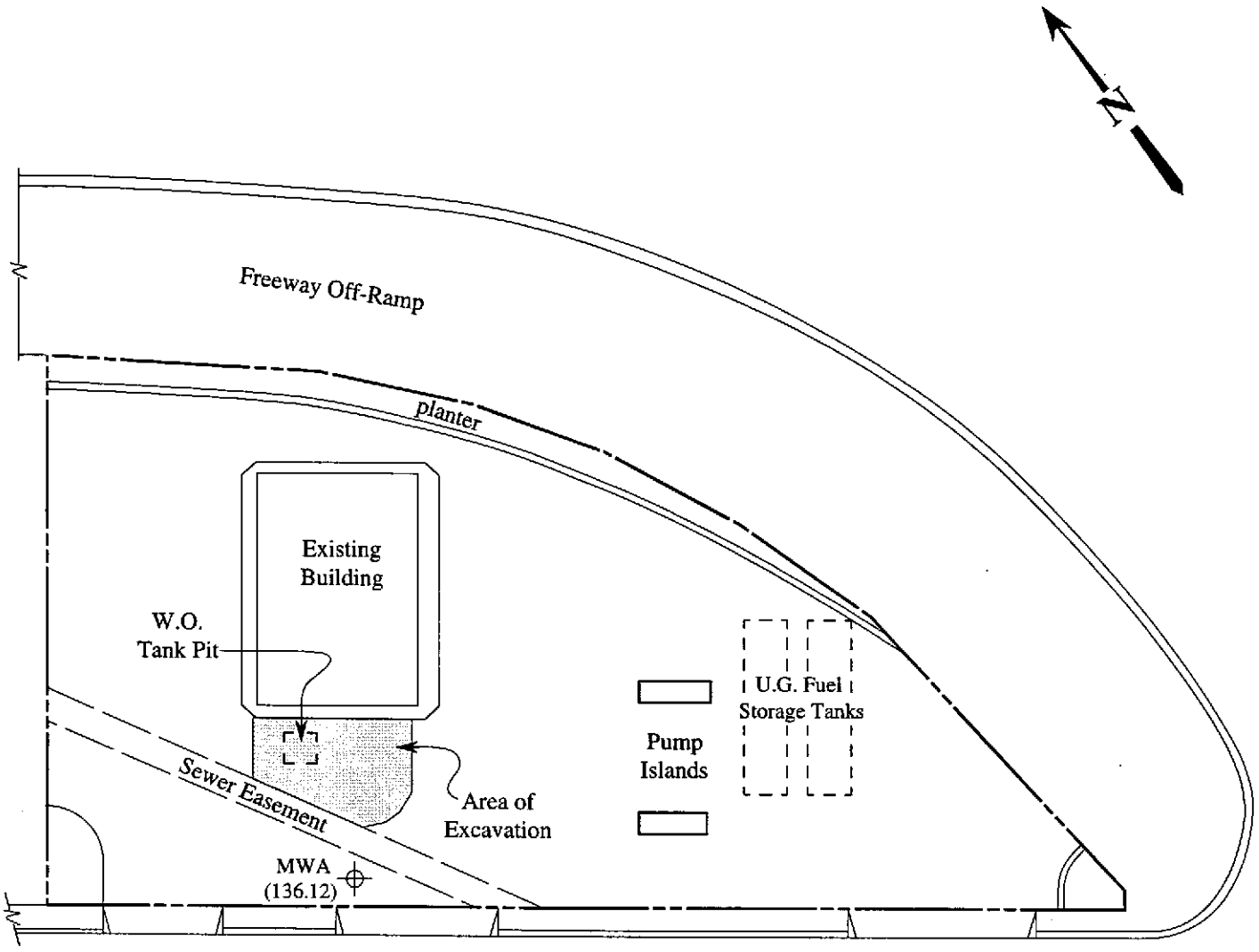

N

Base modified from 7.5 minute U.S.G.S. Oakland East Quadrangle
(photorevised 1980)

0 2000 4000

Approx. scale feet

| | | |
|---|---|---|
| mpds SERVICES, INCORPORATED | **UNOCAL SERVICE STATION #5781**<br>**3535 PIERSON STREET**<br>**OAKLAND, CALIFORNIA** | **LOCATION MAP** |




LEGEND

⊕ Monitoring well

( ) Ground water elevation in feet above Mean Sea Level

0 30 60

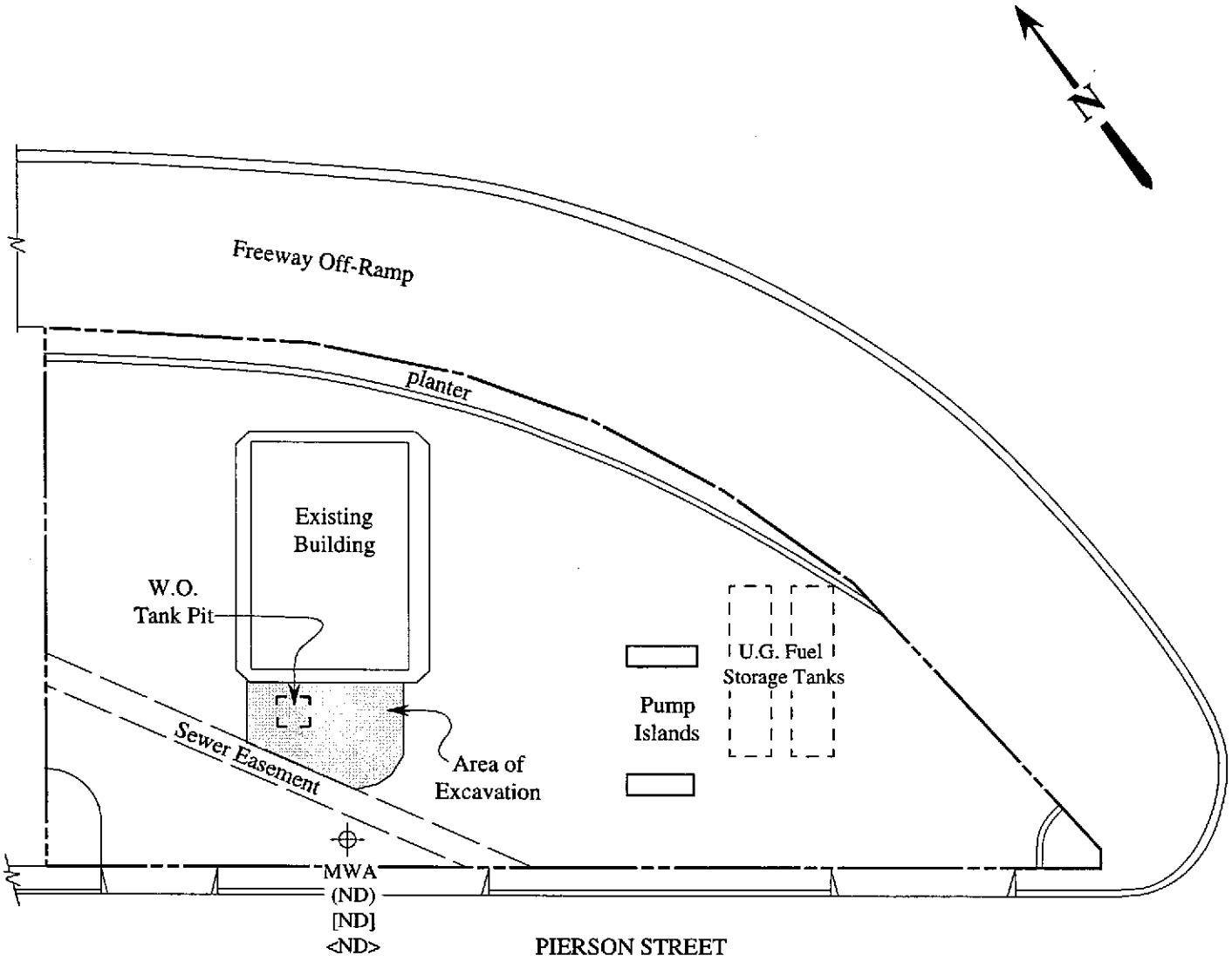
Approx. scale feet

**GROUND WATER ELEVATION MAP FOR THE FEBRUARY 9, 1995 MONITORING EVENT**

MPDS SERVICES, INCORPORATED

**UNOCAL SERVICE STATION #5781**
**3535 PIERSON STREET**
**OAKLAND, 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

0 30 60

Approx. scale feet

**PETROLEUM HYDROCARBON CONCENTRATIONS IN GROUND WATER ON FEBRUARY 9, 1995**

mpds SERVICES, INCORPORATED

**UNOCAL SERVICE STATION #5781**
**3535 PIERSON STREET**
**OAKLAND, CALIFORNIA**

FIGURE
**2**

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
1900 Bates Avenue, Suite L, Concord, CA 94520, (510) 686-9600, FAX (510) 686-9689
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

| | | | | |
|---|---|---|---|---|
| MPDS Services | Client Project ID: | Unocal #5781, 3535 Pierson, Oakland | Sampled: | Feb 9, 1995 |
| 2401 Stanwell Dr., Ste. 400 | Matrix Descript: | Water | Received: | Feb 9, 1995 |
| Concord, CA 94520 | Analysis Method: | EPA 5030/8015/8020 | Reported: | Feb 27, 1995 |
| Attention: Avo Avedissian | First Sample #: | 502-0638 | | |

## 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 |
|---|---|---|---|---|---|---|
| 502-0638 | MWA | 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**

Signature on File

Alan B. Kemp
Project Manager

5020638.MPD <1>

Sequoia Analytical

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| | | | | |
|---|---|---|---|---|
| MPDS Services | Client Project ID: | Unocal #5781, 3535 Pierson, Oakland | Sampled: | Feb 9, 1995 |
| 2401 Stanwell Dr., Ste. 400 | Matrix Descript: | Water | Received: | Feb 9, 1995 |
| Concord, CA 94520 | Analysis Method: | EPA 5030/8015/8020 | Reported: | Feb 27, 1995 |
| Attention: Avo Avedissian | First Sample #: | 502-0638 | | |

## 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 |
|---|---|---|---|---|---|---|
| 502-0638 | MWA | -- | 1.0 | 2/13/95 | HP-5 | 96 |

**SEQUOIA ANALYTICAL, #1271**

Signature on File

Alan B. Kemp
Project Manager

5020638.MPD <2>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

| | | | |
|---|---|---|---|
| MPDS Services | Client Project ID: | Unocal #5781, 3535 Pierson, Oakland | Sampled: Feb 9, 1995 |
| 2401 Stanwell Dr., Ste. 400 | Sample Matrix: | Water | Received: Feb 9, 1995 |
| Concord, CA 94520 | Analysis Method: | EPA 3510/3520/8015 | Reported: Feb 27, 1995 |
| Attention: Avo Avedissian | First Sample #: | 502-0638 | |

## TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

| Analyte | Reporting Limit µg/L | Sample I.D. 502-0638 MWA |
|---|---|---|
| Extractable Hydrocarbons | 50 | N.D. |
| Chromatogram Pattern: | | -- |

**Quality Control Data**

| | |
|---|---|
| Report Limit Multiplication Factor: | 1.0 |
| Date Extracted: | 2/15/95 |
| Date Analyzed: | 2/16/95 |
| 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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

| | | | |
|---|---|---|---|
| MPDS Services | Client Project ID: | Unocal #5781, 3535 Pierson, Oakland | Sampled: Feb 9, 1995 |
| 2401 Stanwell Dr., Ste. 400 | Matrix Descript: | Water | Received: Feb 9, 1995 |
| Concord, CA 94520 | Analysis Method: | SM 5520 B&F (Gravimetric) | Extracted: Feb 22, 1995 |
| Attention: Avo Avedissian | First Sample #: | 502-0638 | Analyzed: Feb 22, 1995 |
| | | | Reported: Feb 27, 1995 |

## TOTAL RECOVERABLE PETROLEUM OIL

| Sample Number | Sample Description | Oil & Grease mg/L (ppm) | Detection Limit Multiplication Factor |
|---|---|---|---|
| 502-0638 | MWA | N.D. | 1.0 |

| | |
|---|---|
| **Detection Limits:** | **5.0** |

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

5020638.MPD <4>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

| | | | |
|---|---|---|---|
| MPDS Services | Client Project ID: | Unocal #5781, 3535 Pierson, Oakland | Sampled: Feb 9, 1995 |
| 2401 Stanwell Dr., Ste. 400 | Sample Descript: | Water, MWA | Received: Feb 9, 1995 |
| Concord, CA 94520 | Analysis Method: | EPA 5030/8010 | Analyzed: Feb 13, 1995 |
| Attention: Avo Avedissian | Lab Number: | 502-0638 | Reported: Feb 27, 1995 |

## 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

Sequoia Analytical

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MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedissian

Client Project ID: Unocal #5781, 3535 Pierson, Oakland
Matrix: Liquid
QC Sample Group: 502-0638

Reported: Mar 2, 1995

# QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl Benzene | Xylenes | Diesel | Oil & Grease |
|---|---|---|---|---|---|---|
| Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8015 Mod | SM 5520 B&F |
| Analyst: | A. Tuzon | A. Tuzon | A. Tuzon | A. Tuzon | K. Wimer | D. Newcomb |
| MS/MSD Batch#: | 5020740 | 5020740 | 5020740 | 5020740 | BLK021595 | BLK022295 |
| Date Prepared: | 2/13/95 | 2/13/95 | 2/13/95 | 2/13/95 | 2/15/95 | 2/22/95 |
| Date Analyzed: | 2/13/95 | 2/13/95 | 2/13/95 | 2/13/95 | 2/16/95 | 2/22/95 |
| Instrument I.D.#: | HP-5 | HP-5 | HP-5 | HP-5 | HP-3A | -- |
| Conc. Spiked: | 20 µg/L | 20 µg/L | 20 µg/L | 60 µg/L | 300 µg/L | 5000 mg/L |
| Matrix Spike % Recovery: | 110 | 110 | 105 | 105 | 81 | 85 |
| Matrix Spike Duplicate % Recovery: | 110 | 110 | 105 | 103 | 84 | 90 |
| Relative % Difference: | 0.0 | 0.0 | 0.0 | 1.9 | 3.6 | 5.7 |
| LCS Batch#: | 3LCS021395 | 3LCS021395 | 3LCS021395 | 3LCS021395 | BLK021595 | BLK022295 |
| Date Prepared: | 2/13/95 | 2/13/95 | 2/13/95 | 2/13/95 | 2/15/95 | 2/22/95 |
| Date Analyzed: | 2/13/95 | 2/13/95 | 2/13/95 | 2/13/95 | 2/16/95 | 2/22/95 |
| Instrument I.D.#: | HP-5 | HP-5 | HP-5 | HP-5 | HP3A | -- |
| LCS % Recovery: | 109 | 106 | 106 | 103 | 81 | 90 |
| % Recovery Control Limits: | 71-133 | 72-128 | 72-130 | 71-120 | 28-122 | 75-125 |

**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.

Sequoia Analytical

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MPDS Services
2401 Stanwell Dr., Ste. 400
Concord, CA 94520
Attention: Avo Avedissian

Client Project ID: Unocal #5781, 3535 Pierson, Oakland
Matrix: Liquid
QC Sample Group: 502-0638

Reported: Mar 2, 1995

# QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloro-ethene | Trichloro-ethene | Chloro-benzene |
|---|---|---|---|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | K. Nill | K. Nill | K. Nill |
| MS/MSD Batch#: | 5020469 | 5020469 | 5020469 |
| Date Prepared: | 2/13/95 | 2/13/95 | 2/13/95 |
| Date Analyzed: | 2/13/95 | 2/13/95 | 2/13/95 |
| Instrument I.D.#: | HP5890/6 | HP5890/6 | HP5890/6 |
| Conc. Spiked: | 10 µg/L | 10 µg/L | 10 µg/L |
| Matrix Spike % Recovery: | 92 | 111 | 107 |
| Matrix Spike Duplicate % Recovery: | 96 | 113 | 113 |
| Relative % Difference: | 4.3 | 1.8 | 5.6 |
| LCS Batch#: | LCS021395 | LCS021395 | LCS021395 |
| Date Prepared: | 2/13/95 | 2/13/95 | 2/13/95 |
| Date Analyzed: | 2/13/95 | 2/13/95 | 2/13/95 |
| Instrument I.D.#: | HP5890/6 | HP5890/6 | HP5890/6 |
| LCS % Recovery: | 99 | 105 | 105 |
| % Recovery Control Limits: | 28-167 | 35-146 | 38-150 |

**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.

mpds SERVICES, INCORPORATED
2401 Stanwell Drive, Suite 400
Concord, California 94520
Tel: (510) 602-5100, Fax: (510) 689-1918

# CHAIN OF CUSTODY

SAMPLER: RAY MARANGOSIAN

WITNESSING AGENCY:

UNOCAL S/S # 5781 CITY: OAKLAND

ADDRESS: 3535 PIERSON

ANALYSES REQUESTED

TURN AROUND TIME: REGULAR

| SAMPLE ID NO. | DATE | TIME | WATER | GRAB | COMP | NO. OF CONT. | SAMPLING LOCATION | TPH-GAS BTEX | TPH-DIESEL | TOG | 8010 | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW A | 2.9.95 | 14:00 | x | x | | 6 | Well | x | x | x | x | | | | 5070638 AF |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |

| RELINQUISHED BY: | DATE/TIME | RECEIVED BY: | DATE/TIME |
|---|---|---|---|
| Ray Marangosian (SIGNATURE) | 15:50 2.9.95 | RJ Kelley (SIGNATURE) | 2/9/95 15:50 |
| (SIGNATURE) | | (SIGNATURE) | |
| (SIGNATURE) | | (SIGNATURE) | |
| (SIGNATURE) | | (SIGNATURE) | |

THE FOLLOWING MUST BE COMPLETED BY THE LABORATORY ACCEPTING SAMPLES FOR ANALYSES:

1. HAVE ALL SAMPLES RECEIVED FOR ANALYSIS BEEN STORED ON ICE? Yes
2. WILL SAMPLES REMAIN REFRIGERATED UNTIL ANALYZED? Yes
3. DID ANY SAMPLES RECEIVED FOR ANALYSIS HAVE HEAD SPACE? No
4. WERE SAMPLES IN APPROPRIATE CONTAINERS AND PROPERLY PACKAGED? Yes

SIGNATURE: RJ Kelley TITLE: Sample Control DATE: 2/9/95

**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.