

#### **Consulting Engineers**

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

> KEI-J90-1003.R1 November 26, 1990

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

Attention: Mr. Rick Sisk

RE: Soil Sampling Report

Unocal Service Station #7004 15599 Hesperian Boulevard San Leandro, California

Dear Mr. Sisk:

This report summarizes the soil sampling performed by Kaprealian Engineering, Inc. (KEI) at the referenced site. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB), and the City of San Leandro Fire Department.

The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies.

Collection of soil samples from beneath the fuel storage tanks, from the tank pit sidewalls, and from the product pipe trenches.

Collection of a water sample from the fuel storage tank pit.

Delivery of samples, including proper Chain of Custody documentation, to a certified analytical laboratory.

Technical review and preparation of this report.

#### SITE DESCRIPTION AND BACKGROUND

The subject site is presently used as a gasoline station. The site is situated on gently sloping southwest trending topography and is located approximately 700 to 800 feet northeast of San Lorenzo Creek, and 2.1 miles northeast of the present shoreline of San Francisco Bay. A Location Map and Site Plan are attached to this report. No leaks or previous subsurface work performed at the site are known to KEI.

#### FIELD ACTIVITIES

KEI's field work was conducted on October 12, 1990, when three underground fuel storage tanks were removed from the site. The tanks consisted of one 12,000 gallon super unleaded gasoline tank, and two 12,000 gallon regular unleaded fuel storage tanks. The tanks were made of steel and no apparent holes or cracks were observed in the tanks. Mr. Michael Bakaldin of the City of San Leandro Fire Department was present during tank removal and subsequent soil sampling.

Nine soil samples, labeled A1, A2, A3, B1, B2, B3, C1, C2 and C3, were collected from beneath the fuel tanks at depths of approximately 14 to 15 feet below grade. Samples were collected from bulk material excavated by backhoe. Samples were placed in clean, two-inch diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a certified laboratory. Sample locations are as shown on the attached Site Plan.

In an attempt to remove as much of the contaminated soil as possible, KEI returned to the site on Outsber 19, 1990, to observe additional soil excavation in the fuel tank pit. Soil was excavated from a depth below grade of 15 feet to a depth of 19 feet. Water was encountered in the fuel tank pit at a depth of approximately 18.5 feet, thus prohibiting the collection of any additional soil samples from the bottom of the fuel tank pit. Soil samples, labeled SW1 through SW4, were collected from the sidewalls of the fuel tank pit approximately six inches above the observed water table at lateral distances of 2, 4, 17 and 4 feet, respectively, from the original tank pit sidewalls. These samples were collected, handled and delivered as described above. Sample point locations are as shown on the attached Site Plan.

KEI returned to the site on October 22, 1990, in order to complete the fuel tank pit sidewall sampling. One soil sample, labeled SW5, was collected from the south sidewall at a depth of about 18 feet below grade. Due to obvious contamination observed in the area of sample point SW5, one additional soil sample, labeled SW5(20), was collected at a depth of 18 feet at a lateral distance of 20 feet from the original tank pit south sidewall. These samples were also collected and handled as described above.

After soil sampling was completed, the entire fuel tank pit was excavated 4 feet laterally and to a depth of approximately 19 feet. Following soil excavation, approximately 5,000 gallons of ground water were pumped from the fuel tank pit. On October 24, 1990, one water sample, labeled Wi was collected from the fuel tank pit in two clean glass VOA vials with Teflon screw caps. The water sample was stored and delivered as described above.

KEI returned to the site on October 31, 1990, in order to collect soil samples from the product pipe trenches. Four samples, labeled P1 through P4, were collected from trenches by using a driven tube type soil sampler at depths ranging from 2.5 to 3 feet below grade. The samples were collected in the presence of Mr. Michael Bakaldin of the City of San Leandro Fire Department. After additional excavation in the area of sample point P2, one soil sample, labeled P2(7.5), was collected at a depth of 7.5 feet below grade from bulk material excavated by backhoe. These samples were also collected in clean two-inch diameter brass tubes, and handled as described above. After the soil sampling was completed, pipe trenches were excavated to the depth of the sample points.

After reviewing the laboratory analyses and in an attempt to remove as much of the contaminated soil as possible, KEI returned to the site on November 2, 1990, to observe additional soil excavation in the area of sample points P1 and P3. Additional soil samples, labeled P1(8) and P3(5.5), were collected at depths of 8 and 5.5 feet, respectively. The samples were collected from bulk material excavated by backhoe and handled as described above. Sample point locations are shown on the attached Site Plan.

#### REGIONAL GEOLOGY AND SUBSURFACE CONDITIONS

Based on review of regional geologic maps (U.S. Geological Survey Professional Paper 943 "Flatland Deposits - Their Geology and Engineering Properties and their Importance to Comprehensive Planning", by E.J. Helley and other, 1979), the subject site is underlain by Holocene Coarse-grained Alluvium (Qhac). The coarse-grained alluvium is described as typically consisting of unconsolidated, moderately sorted, permeable sand and silt with a thickness ranging from less than 10 feet to as much as 50 feet.

The subsurface soil materials exposed in the excavation appeared to consist primarily of clayey silt interbedded with fine-grained sand to the maximum depth explored (19 feet). Ground water was observed at 18.5 feet below grade.

#### ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical Laboratory in Concord, California and were accompanied by properly executed Chain of Custody documentation. All soil and water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 in conjunction with modified 8015, and benzene, toluene, xylenes and ethylbenzene (BTX&E) using EPA method 8020.

Analytical results of the soil samples, collected from beneath the fuel tanks, indicate levels of TPH as gasoline ranging from 180 ppm to 1,900 ppm, and benzene ranging from 0.64 ppm to 9.7 ppm.

x 3 3

Samples collected from the fuel tank pit sidewalls showed levels of TPH as gasoline ranging from non-detectable to 4.5 ppm, except for sample SW5, which showed 998 ppm of TPH as gasoline. However, the additional sample SW5(20), collected at a depth of 18 feet and a lateral distance of 16 feet from sample SW5, indicated 30 ppm of TPH as gasoline.

Analyses of soil samples, P1 through P4, collected from the pipe trenches, indicate levels of TPH as gasoline at 1,400 ppm, 3,900 ppm, 100 ppm and 19 ppm, respectively. However, after additional excavation, the levels of TPH as gasoline in samples P1(8), P2(7.5) and P3(5.5), collected beneath the samples P1, P2 and P3, respectively, were detected at 5.7 ppm, 20 ppm and 9.8 ppm, respectively. Results of the soil analyses are summarized in Table 1.

Analytical results of the water sample (W1), collected from the fuel tank pit, indicated 4,300 ppb of TPH as gasoline and 40 ppb of benzene. The results of the water analyses are summarized in Table 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

#### **DISCUSSION AND RECOMMENDATIONS**

Based on the analytical results and in accordance with the guidelines established by the RWQCB, further work is necessary at the site because of the level of contamination found in the soil and ground water. To comply with the requirements of the RWQCB and the City of San Leandro Fire Department, KEI recommends the installation of three monitoring wells at the site to begin to define the extent of the soil and ground water contamination, and to determine the ground water flow direction. KEI's proposal for this work is attached for your review and consideration.

#### DISTRIBUTION

A copy of this report should be sent to the Alameda County Health Care Services, to Mr. Michael Bakaldin of the City of San Leandro Fire Department, and to the RWQCB, San Francisco Bay Region.

#### **LIMITATIONS**

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

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

Should you have any questions regarding this report, please feel free to call me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Hagop Kevork Civil Engineer

Don R. Braun

Certified Engineering Geologist

Molo Kern

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

Mardo Kaprealian

President

\jad

Attachments:

Tables 1 & 2 Location Map Site Plan

Laboratory Analyses

Chain of Custody documentation

Proposal

KEI-J90-1003.R1 November 26, 1990

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on October 12, 19, 22 & 31, and November 2, 1990)

| <u>Sample</u> | Depth<br>(feet) | TPH as<br><u>Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Xylenes</u> | <u>Ethylbenzene</u> |
|---------------|-----------------|---------------------------|----------------|----------------|----------------|---------------------|
| A1            | 14.5            | 350                       | 2.0            | 3.6            | 47             | 7.7                 |
| A2            | 14.5            | 480                       | 2.4            | 7.3            | 49             | 7.4                 |
| <b>A</b> 3    | 14.0            | 570                       | 0.97           | 5.6            | 50             | 8.3                 |
| Bl            | 15.0            | 180                       | 0.64           | 0.84           | 11             | 3.0                 |
| B2            | 15.0            | 1,900                     | 9.7            | 120            | 250            | 33                  |
| B3            | 15.0            | 990                       | 6.3            | 52             | 120            | 16                  |
| C1            | 15.0            | 270                       | 0.64           | 3.7            | 22             | 5.4                 |
| C2            | 15.0            | 1,200                     | 4.9            | 41             | 150            | 24                  |
| C3            | 15.0            | 590                       | 4.6            | 23             | 80             | 9.4                 |
| SW1           | 18.0            | 3.7                       | 0.21           | 0.024          | 0.42           | 0.14                |
| SW2           | 18.0            | 4.5                       | 0.46           | 0.024          | 0.46           | 0.26                |
| SW3           | 18.0            | 4.1                       | 0.024          | 0.0080         | 0.088          | 0.058               |
| SW4           | 18.0            | ND                        | 0.0090         | ND             | 0.007          | 70 ND               |
| SW5           | 18.0            | 998                       | 0.58           | ND             | 21             | 19                  |
| SW5 (20)      | 18.0            | 30                        | 0.054          | 0.047          | 0.054          | 0.46                |
| P1            | 2.5             | 1,400                     | 0.22           | 3.3            | 72             | 8.9                 |
| P1(8)         | 8.0             | 5.7                       | 0.0078         | 0.0054         | 4 0.18         | 0.033               |
| P2            | 3.0             | 3,900                     | 1.1            | 23             | 280            | 41                  |
| P2(7.5)       | 7.5             | 20                        | ND             | 0.11           | 1.3            | 0.12                |
| P3            | 2.5             | 100                       | 0.057          | 0.63           | 12             | 0.97                |
| P3(5.5)       | 5.5             | 9.8                       | 0.015          | 0.15           | 1.3            | 0.13                |
| P4            | 2.5             | 19                        | ND             | 0.10           | 0.13           | ND                  |
| Detecti       | on              |                           |                |                |                |                     |
| Limits        |                 | 1.0                       | 0.0050         | 0.0050         | 0.00           | 0.0050              |

ND = Non-detectable.

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

TABLE 2

# SUMMARY OF LABORATORY ANALYSES WATER

(Collected on October 24, 1990)

| Sample #            | TPH as<br><u>Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | Xylenes | <u>Ethylbenzene</u> |
|---------------------|---------------------------|----------------|----------------|---------|---------------------|
| Wl                  | 4,300                     | 40             | 1.9            | 520     | 0.54                |
| Detection<br>Limits | 30.0                      | 0.3            | 0.3            | 0.3     | 0.3                 |

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



## Consulting Engineers

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LOCATION MAP

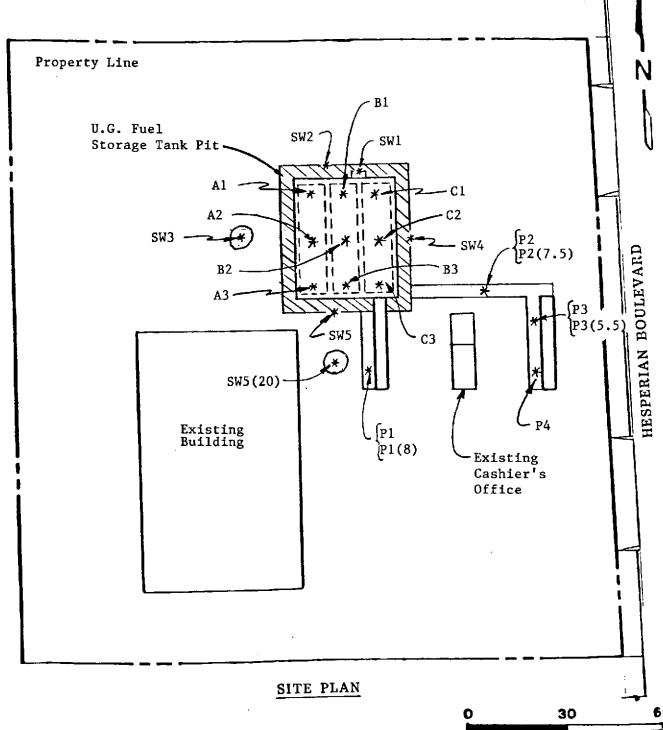
Base from U.S.G.S. 7.5 min. Hayward and San Leandro Quadrangles (photorevised 1980)

Unocal S/S #7004 15599 Hesperian Boulevard San Leandro, CA



## Consulting Engineers

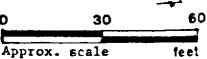
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#### **LEGEND**

Sample Point Location

Area of Additional Excavation 



Unocal S/S #7004 15599 Hesperian Boulevard San Leandro, CA



Kaprealian Engineering, Inc.

P.O. Box 996

Benicla, CA 94510 Attention: Mardo Kaprealian, P.E.

Client Project ID:

Matrix Descript:

First Sample #:

Analysis Method:

Soil EPA 5030/8015/8020

010-0403

Unocal, 15599 Hesperian Blvd., San Leandro

Oct 12, 1990 Sampled:

Received: Analyzed:

Oct 15, 1990 Oct 15, 1990

Oct 16, 1990 Reported:

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

| Sample<br>Number | Sample<br>Description | Low/Medium B.P.<br>Hydrocarbons<br>mg/kg<br>(ppm) | Benzene<br>mg/kg<br>(ppm) | Toluene<br>mg/kg<br>(ppm) | Ethyl<br>Benzene<br>mg/kg<br>(ppm) | Xylenes<br>mg/kg<br>(ppm) |
|------------------|-----------------------|---|---------------------------|---------------------------|------------------------------------|---------------------------|
| 010-0403         | A1                    | 350   | 2.0                       | 3.6                       | 7.7                                | 47                        |
| 010-0404         | A2                    | 480   | 2.4                       | 7.3                       | 7.4                                | 49                        |
| 010-0405         | A3                    | 570   | 0.97                      | 5.6                       | 8.3                                | 50                        |
| 010-0406         | B1                    | 180   | 0.64                      | 0.84                      | 3.0                                | 11                        |
| 010-0407         | B2                    | 1,900   | 9.7                       | 120                       | . 33                               | 250                       |
| 010-0408         | B3                    | 990   | 6.3                       | 52                        | 16                                 | 120                       |
| 010-0409         | C1                    | 270   | 0.64                      | 3.7                       | 5.4                                | 22                        |
| 010-0410         | C2                    | 1,200   | 4.9                       | 41                        | 24                                 | 150                       |
| 010-0411         | C3                    | 590   | 4.6                       | 23                        | 9.4                                | 80                        |

| Detection Limits: | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |
|-------------------|-----|--------|--------|--------|--------|
|                   |     |        |        |        |        |

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

**SEQUOIA ANALYTICAL** 

Belinda C. Vega **Laboratory Director** 



| SAMPLER 1       | Jan       |                 | <br> <br>  . | 1  |                | s:   | TE HA     | Ban Leandro          |          |          | MALYSE      | S REQUES | EO             | <del></del>     | TURN AROUND TIME:  |
|-----------------|-----------|-----------------|--------------|--|----------------|--|-----------|----------------------|----------|----------|-------------|----------|----------------|-----------------|--|
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| SAMPLE   10 NO. | DATE      | <br> <br>  TIME | SOIL         | <br> <br> <br> MATER                             | <br> <br> GRAS | COMP   | NO.<br>OF | SAMPLING<br>LOCATION | TPH      | 8TX      | İ           |          | <br> <br> <br> |                 | RENARKS  |
| AI              | 10/12     |                 | ~            | <del> </del>                                     |                | <del></del>                                      | 1         | Fuel Tank Pit        | V        | V        | 0/          | 004      | 103            |                 | Please Fax<br>the results                                      |
|                 | 10/12     |                 | ~            | <del> </del>                                     | V              |  | 1         |                      |          | U        |             |          | 104            | 4               | the results  |
|                 | 10/12     | . ,             | V            | <del>                                     </del> | V              |  | 1         |                      | V        | <u>/</u> | <br>        | 1        | 105            | İ               | i<br>-   |
| BI              | 10/12     |                 | V            |  | V              |  | ١         |                      | U        |          |             |          | 100            | <u>i</u>        | i<br>-   |
| B2              | 10/12     | l l             | V            |  | <br> <br>      |  | 1         |                      | <u>~</u> | ~        |             | i i 4    | 107            | 1               | 4  |
| B3              | 10/12     |                 | V            |  | -              | †<br>†   | 1         |                      | 1        | <b>/</b> |             | 4        | 08             | <u> </u>        | 1  |
| CI              | 10/12     |                 | V            |  | سا             | <br> <br>  | •         |                      | V        | 1        |             | 4        | 09             | İ               | 1  |
| C2              | 10/12     |                 | V            | 1  | 1              |  | 1         |                      | 1        | V        |             | 1        | 110            | <u> </u>        | -  |
| C3              | 1/0/12    | <del> </del>    | V            |  | 10             | <del>                                     </del> | 1         | V                    | سا       | 1        |             | 1 /      | 111            | <u> </u>        |  |
| I LOC           | 1 64: 15) | <del></del>     | 17           | ote/Ti   |                | • .  |           | ed by: (Signature)   | <br>     | for a    | nalysi (    | 6:       |                |                 | the laboratory accepting samples inalysis been stored in ice?  |
| Rel inquished   | yby: Ysi  | gnature)        |              | ate/Ti   | me             | j (  | perim     | ed by: '(Signature)  | 1        | _        |             |          |                | • •             | ed until snalyzed?   |
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Kaprealian Engineering, Inc. Client Project ID: Sampled: Oct 19, 1990 Unocal, 15599 Hesperian Blvd., San Leandro Received: Oct 22, 1990 P.O. Box 996 Matrix Descript: Soil Oct 23, 1990 Benicia, CA 94510 EPA 5030/8015/8020 Analyzed: Analysis Method: Reported: Oct 24, 1990 Attention: Mardo Kaprealian, P.E. First Sample #: 010-0566

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

| Sample<br>Number | Sample<br>Description | Low/Medium B.P.<br>Hydrocarbons<br>mg/kg<br>(ppm) | Benzene<br>mg/kg<br>(ppm) | Toluene<br>mg/kg<br>(ppm) | Ethyl<br>Benzene<br>mg/kg<br>(ppm) | Xylenes<br>mg/kg<br>(ppm) |
|------------------|-----------------------|---|---------------------------|---------------------------|------------------------------------|---------------------------|
| 010-0566         | SW-1                  | 3.7   | 0.21                      | 0.024                     | 0.14                               | 0.42                      |
| 010-0567         | SW-2                  | 4.5   | 0.46                      | 0.024                     | 0.26                               | 0.46                      |
| 010-0568         | SW-3                  | 4.1   | 0.024                     | 0.0080                    | 0.058                              | 0.088                     |
| 010-0569         | SW-4                  | N.D.  | 0.0090                    | N.D.                      | N.D.                               | 0.0070                    |

|--|

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

**SEQUOIA ANALYTICAL** 

Belinda C. Vega Laboratory Director



| SAMPLER  | laig      |                  |                                |                            | _                |  |                   | E & ADDRESS       | •              |                  |                  | MALYSE            | S REQL  | ESTED             |  |                  | TURN AROUND THET IS 10/2                                      |
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| SAMPLE ID NO.                                    | DATE      | TIME             | SOIL                           | <br> <br> MATER            | <br> <br> GRAB   | COMP   | NO.<br>OF         |                   | PLING<br>ATION | 五                |                  |                   |   | <br>              | <br> <br>  | <br>             | REMARKS   |
| SWI  | 10/19     | <del> </del>     | 1                              | 1                          | 1                |  | 1                 | Tank Pit          | Sidewall       | <b>V</b>         |                  | 0                 | 101   | 25                | 60   | 0                | [   |
| Sw2  | 10/19     |                  | 1                              |                            | 1                |  | l                 |                   |                | <u></u>          |                  | 0                 | 10  | 25                | 6  | Z                | i<br>1  |
| SW3  |           |                  | <b>1</b>                       | 1                          | \ <u>\</u>       |  | 1                 |                   |                | <u>~</u>         | /                | 0                 | 0   |                   | 5/2  | 2                | ,   |
| 5W4  | 10/19     |                  | 1                              | 1                          | ·                | 1  | 1                 | V                 | /              | 1                | 1                | 01                | 00  | 20                | 569  | 1                | 1   |
|  |           |                  | 1                              | <u> </u>                   | i<br>+           | <u>i</u>   | Í<br><del>I</del> | !                 | <u> </u>       | <u> </u>         | <del> </del>     | <br><del> </del>  | <br><del> </del>                                      | 1<br><del> </del> | l<br><del> </del>                                    | <del> </del>     | <br> -  |
| <br>   |           | <br><del> </del> | Í<br><del>∤</del>              | <u> </u>                   | <u> </u>         | <del> </del>                                     | <u> </u>          | 1                 |                | <del> </del>     | <br><del> </del> | !<br><del> </del> | !<br><del>                                     </del> | <br><del> </del>  | <br><del> </del>                                     | <br><del> </del> | - <del> </del>  |
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| Helinguishe<br>                                  | a py: (5) | gnature)         |                                | yate, i                    | I ATTE           | 1  | J                 | eo oy. (signa     |                | į                | 2. W             | ill se            | spies   | remain            | refri  | gerate           | ed until analyzed?  |
| <del>                                     </del> | d by: (Si | gnature)         | 1                              | Date/T                     | ine              |  | Receiv            | ed by: (Signa     | ture)          |                  |                  | 1                 |   |                   | }  | 70               | nalysis have head space?                                      |
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Kaprealian Engineering, Inc.

Client Project ID:

Unocal, 15599 Hesperian Blvd., San Leandro

Sampled: Received: Oct 22, 1990 Oct 22, 1990

P.O. Box 996 Benicia, CA 94510 Matrix Descript:

Soil EPA 5030/8015/8020

Analyzed: Oct 23, 1990

Attention: Mardo Kaprealian, P.E.

Analysis Method: First Sample #:

EPA 5030/8015/8020 010-0558

Reported: Oct 24, 1990

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

| Sample<br>Number | Sample<br>Description | Low/Medium B.P.<br>Hydrocarbons<br>mg/kg<br>(ppm) | Benzene<br>mg/kg<br>(ppm) | Toluene<br>mg/kg<br>(ppm) | Ethyl<br>Benzene<br>mg/kg<br>(ppm) | Xylenes<br>mg/kg<br>(ppm) |
|------------------|-----------------------|---|---------------------------|---------------------------|------------------------------------|---------------------------|
| 010-0558         | SW-5                  | 998   | 0.58                      | N.D.                      | 19                                 | 21                        |
| 010-0559         | SW-5(20)              | 30  | 0.054                     | 0.047                     | 0.46                               | 0.054                     |

Detection Limits: 1.0 0.0050 0.0050 0.0050 0.0050

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

**SEQUOIA ANALYTICAL** 

Belinda C. Vega Laboratory Director

100558.KEI <1>



| SAMPLER       | louig  |          |      | ی در ا   | \C 0        | s ()   | ITE NA                | se address  Sour Leondro   | <br>                  | 1                     | ANALYSI  | ES REOL                      | ESTED                      | <del>                                     </del>  | TU        | rn around time:<br>24 Hv                | 5                |
|---------------|--|----------|------|--|-------------|--|-----------------------|----------------------------|-----------------------|-----------------------|--|------------------------------|----------------------------|---|-----------|---|------------------|
| WITHESSING A  | GENCY  |          |      | 55   | 99          | )  | les                   | sperian Blud               | 6                     | 1                     | 1<br> <br> <br>                                  | <br>                         |                            |   |           |   |                  |
| SAMPLE ID NO. | DATE   | TIME     | SOIL | <br> <br> WATER                                  | GRAB        | <br> <br> COMP                                   | NO.<br>OF<br>CONT.    | SAMPLING<br>LOCATION       | され                    | BTX                   |  | <br> <br> <br>               |                            | <br>  |           | RENARI                                  | s <b>Š</b>       |
| SW5           | 10/22  |          | V    | <br> <br>  | 1           | <br> <br>  |                       | Tank Pit Sidewall          | 1                     | L                     |  |                              |                            | 50  | - F       | lease<br>the re                         | Fax              |
| SW5(20)       | 110/22   |          | ~    | <br>   | 1           | <br><del> </del>                                 | 1                     | Tank Pit Sidewall          | i ( -                 | 1                     | 01   | 00                           | 5                          | 59  |           | the re                                  | sults            |
| <br>          | 1  |          |      | <br> <br>  | <br>        | <br>   | <br> <br>             |                            | †<br><del> </del><br> | <u> </u><br>          | <br><del> </del><br>                             | <br>  <br>                   | <br>                       | 1  <br><del>  -</del><br>                         | <br><br>! |   |                  |
|               | <del>                                     </del> |          |      | <del>                                     </del> | 1           | <del>                                     </del> | <del> </del><br> <br> |                            | <del> </del><br> <br> | <del> </del><br> <br> | <del>                                     </del> | <br> <br>                    | <br> <br>                  | <del>                                     </del>  |           | e .                                     |                  |
|               |  |          |      |  |             |  | <br> <br>             |                            | <br>                  | <br>                  |  | <br>                         | <br>                       | <br>  |           |   |                  |
| <u> </u>      | <u> </u>   |          |      |  | <u> </u>    | <br><del> </del> -                               | <br>                  | <u> </u><br><del> </del>   | <br><del> </del>      | Ì<br><del> </del>     | 1  | <del> </del><br><del> </del> | <br>                       | <br><del>                                  </del> |           |   |                  |
| <br>          | <br>   | <br>     | <br> | <br><del> </del><br>                             | <br>        | <br><del> </del><br>                             | <br><del> </del><br>  | <br>                       | <br><del> </del><br>  | <br><del> </del><br>  | <br><del> </del>                                 | <br><del> </del><br>         | <br><del>  · · ·</del><br> |   |           |   |                  |
| Relinquished  | SK/Ke  | north    | 5    |  | - b %       | 2  | Man                   | ed by: (Signature)  My (-+ | <br> <br> <br>        | for                   | analysi  | s:                           |                            |   |           | laboratory acceptions is been stored in |                  |
| lanu          | // a a   | -mants   |      |  | :3 <b>5</b> | ·i   |                       | Han 16                     | '<br> <br>            | 2.                    |  | mples                        |                            | refriger  | rated ur  | ntil analyzed?                          |                  |
| Relinquished  | d by: (Si  | gnature) | t    | ate/Ti   | ime         | İ  | Receiv                | ed by: (Signature)         | i<br>I                | 3.                    |  |                              | es rec                     | eived for   | r analys  | is have head space                      | 17               |
| Relinquishe   | d by: (Si  | gnature) | 1    | oste/Ti  | ime         | <del>-i -</del><br>!                             | Receiv                | ed by: (Signature)         | İ                     | 4.                    | Were sa  | mples<br>مريم سو             |                            | oropriate   | contair   | ners and properly p                     |                  |
| !             |  |          | 1    |  |             |  |                       |                            | I                     |                       | <i>ز</i><br>Sign                                 | ature                        | _                          |   | Title     | <del></del>                             | 10-11-5c<br>Date |



(415) 686-9600 • FAX (415) 686-9689

Kaprealian Engineering, Inc.

P.O. Box 996

Client Project ID: Unocal, 15599 Hesperian Blvd., San Leandro Soil

Sampled: Received: Oct 31, 1990 Nov 1, 1990

Benicia, CA 94510

Matrix Descript: Analysis Method:

EPA 5030/8015/8020

Analyzed:

Nov 1, 1990

Attention: Mardo Kaprealian, P.E.

First Sample #:

011-0004

Reported:

Nov 2, 1990

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

| Sample<br>Number | Sample<br>Description | Low/Medium B.P.<br>Hydrocarbons<br>mg/kg<br>(ppm) | Benzene<br>mg/kg<br>(ppm) | Toluene<br>mg/kg<br>(ppm) | Ethyl<br>Benzene<br>mg/kg<br>(ppm) | Xylenes<br>mg/kg<br>(ppm) |
|------------------|-----------------------|---|---------------------------|---------------------------|------------------------------------|---------------------------|
| 011-0004         | P1 *                  | 1,400   | 0.22                      | 3.3                       | 8.9                                | 72                        |
| 011-0005         | P2                    | 3,900   | 1.1                       | 23                        | 41                                 | 280                       |
| 011-0006         | P3 *                  | 100   | 0.057                     | 0.63                      | 0.97                               | 12                        |
| 011-0007         | P4 *                  | 19  | N.D.                      | 0.10                      | N.D.                               | 0.13                      |

| Detection Limits: | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |  |
|-------------------|-----|--------|--------|--------|--------|--|
| l                 |     |        |        |        |        |  |

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

**SEQUOIA ANALYTICAL** 

Belinda C. Vega **Laboratory Director**  Please Note:

The above samples do not appear to contain gasoline.

110004.KEI <1>



|     | SAMPLER Haig                             |          |                      |           |  |                    |      | site hame & address<br>L_Sau Leaudro |                 |                  |                   |                   | ANALY   | SES RE                   | OUESTE           | T                   | turn around time: 24 Hrs |                                 |  |
|-----|--|----------|----------------------|-----------|--|--------------------|------|--------------------------------------|-----------------|------------------|-------------------|-------------------|---|--------------------------|------------------|---------------------|--------------------------|---------------------------------|--|
| + 1 | ITHESSING A                              |          | 15599 Hesperian Blud |           |  |                    |      |                                      |                 |                  |                   | <br> <br> <br>    | <br> <br> <br>  | <br>                     | <br> <br>        |                     |                          |                                 |  |
| 1   | SAMPLE .                                 | DATE     | <br> <br>            | SOIL      | <br> <br> water                                  | GRAB               | COMP | NO.<br>OF<br>CONT.                   | •               | IPLING<br>CATION | TPH               | RTX               |   |                          |                  |                     |                          | REMARKS                         |  |
|     | PI                                       | 10/31    |                      | 1         | <del>                                     </del> | V                  |      | 1                                    | Product         | Pipe Treuct      | V                 | <br>  レ           | - <del> </del><br>- <br>- <del> </del> -  | - <del> </del><br> <br>- | +<br>!<br>       | <br> <br>           |                          | Plensoby                        |  |
| /[  | P2                                       | 10/31    | <u> </u><br>         | 1/        | <br> <br>  | 1/                 |      | 1_                                   |                 |                  | <u>'</u>          | 1                 | - j<br>- <del> </del>   |                          |                  |                     | 1                        | the ownts                       |  |
| /[  | P3                                       | 10/31    | l                    | 1         |  | 1                  |      | 1                                    |                 |                  | 1                 | 1                 | 1   | <br><del> </del>         | 1                | <br><del> </del>    | 1                        | 006                             |  |
|     | P4                                       | 10/31    |                      | 1         | ļ  | 1                  | <br> |                                      | ,               | V                | <u></u>           | \ <u>\</u>        | ĺ<br>├─   | i<br>—                   | <u> </u>         | <u> </u>            | 1                        | 007                             |  |
|     | ·  |          |                      |           | <u> </u>   | <br>               | <br> | ļ<br>                                |                 |                  | İ<br><del> </del> | <br>              | <br><del> </del>  | 1                        | <br><del> </del> | 1                   | <br><del>- </del>        | <br> -                          |  |
| ļ   |  | <br>     | <u> </u>             | <u> </u>  | <u> </u>   | <br><del> </del> - | ├    | Í<br>I                               | <u> </u>        |                  | <u> </u>          | 1                 | <br><del>- </del>   | 1                        | 1                |                     | 1<br><del> </del>        | <br><del> </del>                |  |
| į   |  | <u> </u> |                      |           | <u> </u>   | ,<br> <br>         | <br> |                                      | İ               |                  | ļ<br><del>1</del> | <br>              | <br><del> </del> -  | <u> </u>                 | <br>             | <br><del>- </del>   | 1                        | <br> -                          |  |
|     |  | <u> </u> | <u> </u>             | <u> </u>  | <u> </u>   | <u> </u>           |      | <br>                                 | i<br>           |                  | j<br><del> </del> | İ<br><del> </del> | <u> </u><br>  | İ                        | <br><del> </del> | [<br>- <del> </del> | 1                        | <b>↓</b><br><b>⊣</b>            |  |
|     |  |          |                      | <br> <br> | <br> <br>  | į                  | 1    |                                      | i DAL           |                  | <u> </u>          | <u>i</u>          | <u> </u>  | <u>i</u>                 | <u> </u>         | <u> </u>            | <u> </u>                 |                                 |  |
|     | Relinquished by: (Signature) Date/Time   |          |                      |           |  |                    | 4    |                                      |                 |                  |                   |                   | he following MUST BE completed by the laboratory accepting samp<br>or analysis:  . Have all samples received for analysis been stored in ice? |                          |                  |                     |                          |                                 |  |
|     | Relinquished                             | юу; (\$1 | gnature) Š           |           | ate/Ti   | TIPE               | '    | Jec 6 1                              | ed by: \(\$igna | (ure)            | !<br>!            | 2.                | Will  | samples                  | remai            | n refr              | igerate                  | ed until analyzed?              |  |
|     | Relinquished                             | lby: (Si | gnature)             | 0         | ate/Ti   | me                 |      | Receiv                               | ed by: (Signa   | ture)            | 1                 | 3.                | 5. Did any samples received for analysis have head space?   |                          |                  |                     |                          |                                 |  |
|     | Relinquished by: (Signature)   Date/Time |          |                      |           |  |                    |      | Received by: (Signature)             |                 |                  |                   |                   |   | amples<br>dure           |                  | propri              |                          | ntainers and properly packaged? |  |



Oct 31, 1990 Unocal, 15599 Hesperian Blvd., San Leandro Sampled: Kaprealian Engineering, Inc. Client Project ID: Received: Nov 1, 1990 P.O. Box 996 Sample Descript.: Soil, P2 (7.5) Analyzed: Nov 1, 1990 Analysis Method: EPA 5030/8015/8020 Benicia, CA 94510 Reported: Nov 2, 1990 Attention: Mardo Kaprealian, P.E. Lab Number: 011-0008

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

Analyte Detection Limit Sample Results mg/kg (ppm) mg/kg (ppm)

| Benzene       | 0.025 |                                | N.D  |
|---------------|-------|--------------------------------|------|
| Toluene       |       | ****************************** | 0.11 |
| Ethyl Benzene | 0.025 | ***********                    | 0.12 |

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

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

SEQUOIA ANALYTICAL

Belinda C. Vega Laboratory Director Please Note: The above sample does not appear to contain gasoline.

110008.KEI <1>



| SAMPLER   | louig      |  |      |                      |                 | SI     | TE NA  | E & ADDRESS                             |                 |   | ANALYSE | S REOL      | ESTED | TURN AROUND TIME: 24 Hvs |  |         |
|---|------------|--|------|----------------------|-----------------|--------|--|---|-----------------|---|---------|-------------|-------|--------------------------|--|---------|
| WITHESSING A  | U<br>    1 | Unocal - San Leandro<br>15599 Herperian Blvd |      |                      |                 |        |  |   |                 |   |         | ,<br>,<br>, |       |                          |  |         |
| SAMPLE<br>ID NO.  | DATE       | <br> <br>  TIME                              | sort | <br> <br> <br> WATER | <br> <br>  GRAB | COMP   | NO.<br>OF<br>CONT.   | SAMPLING<br>LOCATION                    | -H6H-           | BIX   |         |             |       |                          |  | REMARKŠ |
| P2 (7.5)  | 10/31      |  |      |                      |                 |        |  | Product Pipe Treact                     | H               |   |         |             |       |                          |  | 0000    |
| Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Date/Time  (Signature)  Date/Time |            |  |      |                      | <u>/</u>   \    | Receiv | ed to: (signature)  red by: (signature)  red by: (signature) | <br> <br> <br> <br> <br> <br> <br> <br> | for<br>1.<br>2. | following MUST BE completed by the laboratory accepting sanalysis: Have all samples received for analysis been stored in ice: Will samples remain refrigerated until analyzed?  Did any samples received for analysis have head space?  Were samples in appropriate containers and properly packa |         |             |       |                          |  |         |



Kaprealian Engineering, Inc.

P.O. Box 996

Client Project ID: Matrix Descript:

Unocal, 15599 Hesperian Blvd., San Leandro

Sampled: Received:

Nov 2, 1990 Nov 2, 1990

Benicia, CA 94510

Analysis Method:

EPA 5030/8015/8020

Analyzed:

Nov 5, 1990

Attention: Mardo Kaprealian, P.E.

First Sample #:

011-0039

Soil

Reported:

Nov 5, 1990

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

| Sample<br>Number | Sample<br>Description | Low/Medium B.P.<br>Hydrocarbons<br>mg/kg<br>(ppm) | Benzene<br>mg/kg<br>(ppm) | Toluene<br>mg/kg<br>(ppm) | Ethyl<br>Benzene<br>mg/kg<br>(ppm) | Xylenes<br>mg/kg<br>(ppm) |
|------------------|-----------------------|---|---------------------------|---------------------------|------------------------------------|---------------------------|
| 011-0039         | P1 (8)                | 5.7   | 0.0078                    | 0.0054                    | 0.033                              | 0.18                      |
| 011-0040         | P3 (5.5)              | 9.8   | 0.015                     | 0.15                      | 0.13                               | 1.3                       |

| Detection Limits: 1.0 0.0050 0.0050 0.0050 0.0050 |
|---|
|---|

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

**SEQUOIA ANALYTICAL** 

Belinda C. Vega Laboratory Director

110039.KEI <1>



|  |               | <del>-</del> -                                   |  |                      |                       |                 |                       |                      |           |                  | NAL YSE:  | REDU                   | FSTED       | TURI                 | TURN AROUND TIME: |              |                              |
|--|---------------|--|--|----------------------|-----------------------|-----------------|-----------------------|----------------------|-----------|------------------|---|------------------------|-------------|----------------------|-------------------|--------------|------------------------------|
| SAMPLER H                              | <br> <br>     | Unocal - San Leandro<br>15599 Hesperian Blvd     |  |                      |                       |                 |                       |                      |           |                  | , <del></del> 1   |                        | -           |                      | 24 Hrs            |              |                              |
| WITNESSING AC                          |               | 55   | 99   | !                    | He                    | sperian Blud    |                       | 4                    | <u>ப</u>  | <br>             | 1<br>   | <br>                   | <br> <br>   | i,<br>1              |                   |              |                              |
| SAMPLE<br>ID NO.                       | DATE          | <br> <br>  TIME                                  | \$01L  | WATER                | <br> <br> GRAB        | COMP            | NO.<br>OF             | SAMPLING<br>LOCATION | <br> <br> | HOLL             | BTX   |                        | <br>        | <br> <br>            | 1<br>1<br>1       |              | REMARKŠ                      |
| P1(8)                                  | 11/2          |  | 1  | <del>  </del>        |                       |                 |                       | Product Pipe         | rench     | <b>V</b>         | /   | 0                      |             | 0                    |                   | P            | Please Fax<br>the results    |
| P3(5.5)                                | 11/2          | 1  | 0  | <br> <br>            |                       |                 | 1                     | Product Pipe         | Treuch    | 1/               | /   | <br>                   | .—-         | 0                    | 40                | 7<br>        | the results                  |
| <br>                                   | <br>          | i<br>+   | -  | <u> </u>             | <br>                  | <br>            | <br>                  |                      |           | <br> <br>        | <br><del> </del><br>  | <br>                   |             | <br><del> </del><br> |                   | <del></del>  |                              |
| <br>                                   | <b>╿</b><br>┩ | <del> </del>                                     | <br><del> </del><br>                             | <br><del> </del><br> | l<br><del> </del><br> | <br> <br>       | !<br><del> </del><br> | <br>                 | ·         | ¦<br>├<br>       | <del> </del>  | <del> </del>           | <del></del> |                      |                   | —— <u> </u>  |                              |
| <br>                                   |               |  | <del> </del>                                     | <del> </del>         | <del>  -</del>        | <del> </del>    |                       |                      |           | <del> </del><br> | <del> </del><br>  |                        | <br> <br>!  | ├<br> <br>           | <del> </del>      |              |                              |
|  | <del>- </del> | <del>                                     </del> | <del>                                     </del> |                      | <del> </del>          | <del> </del> -  | <del> </del>          |                      |           | <br> <br>        |   | <br>                   | <br>        | ;<br> <br>           | <br>              | <u> </u>     |                              |
|  | <br> <br>     |  |  | <br> <br>            |                       |                 | <br> <br>             | <br>                 |           | Í<br>            | Í<br><del> </del>   | ļ<br><del> </del>      | <br>        | <br><del> </del>     |                   | <del>-</del> | ·                            |
|  |               | <u> </u>   | ,<br><del> </del>                                | <u> </u>             | <u>i</u>              | <u>ا</u><br>بہر | <u>i</u>              | ! (( ())             |           | <u> </u><br>     | The   | <br>                   | i<br>I      | T RF o               | omplete           | d by the     | laboratory accepting samples |
| Relinquished by: (Signature) Date/Time |               |  |  |                      |                       | • •             | Keceir                | N THE                | <u> </u>  | ا د<br>ا—ا       | The following MUST BE completed by the laboratory accepting sale for analysis:  1. Have all samples received for analysis been stored in ice? |                        |             |                      |                   |              |                              |
| Relinquishe                            | d by: (S      | ignature)  |  | Date/Ti              | ime                   | 1               | Retein                | ed by: (Signature)   |           | <br> <br>        | 2.  | Vill sa                | mples       | remair               | refrig            | gerated un   | ntil analyzed?               |
| Relinquishe                            | ed by: (S     | ignature)  |  | Date/T               | ime                   |                 | Recei                 | ved by: (Signature)  |           |                  | 3. Did any samples received for analysis have head space?   |                        |             |                      |                   |              |                              |
| quishe                                 | ed by: (S     | <del>-</del>                                     | Date/1   | ime                  | <del>- -</del>        | Recei           | ved by: (Signature)   |                      |           | 4.<br> <br> <br> |   | imples<br>LU<br>nature | <u>.</u>    | oropria:<br>         | te oontain        | e Date       |                              |



Oct 24, 1990 Sampled: Client Project ID: Unocal, Hesperian/Lewelling, San Leandro Kaprealian Engineering, Inc. Oct 25, 1990 Received: Sample Descript.: Water, W1 P.O. Box 996 Analyzed: Oct 29, 1990 Benicia, CA 94510 Analysis Method: EPA 5030 / 8015 / 8020 Oct 31, 1990 Reported: Lab Number: 010-0694 A-B Attention: Mardo Kaprealian, P.E.

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

Analyte Detection Limit Sample Results  $\mu g/L$  (ppb)  $\mu g/L$  (ppb)

| Low to Medium Boiling Point Hydrocarbons | 4,300 |
|--|-------|
| Benzene 0.30                             | 40    |
| Toluene 0.30                             | 1.9   |
| Ethyl Benzene                            | 0.54  |
| Xylenes 0.30                             | 520   |

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

**SEQUOIA ANALYTICAL** 

Belinda C. Vega Laboratory Director



| SAMPLER                                  |            |                 |                      |  |                                       |                | ME & ADDRESS                          |                      |                   | WALYS   | ES REQ                | UESTED                |                 | TURN AROUND TIME: |                                       |                                  |  |
|--|------------|-----------------|----------------------|--|---------------------------------------|----------------|---------------------------------------|----------------------|-------------------|---|-----------------------|-----------------------|-----------------|-------------------|---------------------------------------|----------------------------------|--|
| SAMPLER (NEI)                            |            |                 | - <del>-</del>       | UNOCAL SAN LEANDRO<br>HESPERIAN /LEWELLING |                                       |                |                                       |                      |                   | E   | <br> <br> <br>        | ;<br>                 | <br> <br> <br>  | <br> <br> <br>    | ;<br> <br> <br> <br>                  | 5 days                           |  |
|  | <br>  DATE | <br> <br>  TIME | SOIL                 | <br> <br> MATER                            | <br> <br> GRAB                        | <br> <br> COMP | MO.<br>OF                             | SAMPLING<br>LOCATION | SHOL              | BTX   | <br> <br> <br>        |                       | ,<br> <br> <br> | !<br>!<br>!       | <br> <br> <br>                        | REMARKS                          |  |
| WI                                       | 10-24      | 16:54           |                      | X  | ×<br>  ×<br>                          | <br> <br>      | 2/0                                   | A                    |                   |   |                       | <u> </u><br>          | <br>            | i<br> <br>        | !<br><del> </del>                     | ;<br>{<br>!                      |  |
|  | <br> <br>  |                 | <br> <br>            | <br> <br>                                  | <del> </del><br> <br><del> </del><br> | <br> <br>      | <br> <br>                             |                      | — —<br> <br>  — — | <br> <br>   | <br> <br>             | -                     | 1               |                   |                                       | 1                                |  |
| <br>                                     |            |                 | <br> <br>            | <del> </del>                               | <del> </del>                          | <br> <br>      | <del> </del><br> <br><del> </del><br> |                      | <br> <br>         | <del> </del><br> <br><del> </del>                         | <br> <br> <br>        | <br> <br>             | <br> <br>       | \<br>\<br>\<br>\  | \<br>\<br>\<br>                       | -1<br> <br> - <br>               |  |
|  |            | 1               | <br> <br>            | <br> <br>                                  | <del> </del>                          | !              |                                       |                      |                   | <del> </del>  | <del> </del><br> <br> | <del> </del><br> <br> | !               | <del> </del>      | <del> </del><br> <br><del> </del><br> | ┥<br> -<br> -<br>                |  |
| <br>                                     | <br>       | <u> </u>        | <br><del> </del><br> | - <del> </del>                             | <br>                                  | <del> </del>   | 1                                     |                      |                   | <br> <br>   | <del> </del>          |                       |                 |                   |                                       |                                  |  |
| Relinquished by: (Signature)   Ray (NE1) |            |                 | 10                   | Date/time Received by: (Signature)         |                                       |                |                                       |                      |                   | for i   | nalys<br>leve e       | ទែះ                   | oles re         |                   |                                       | the laboratory accepting samples |  |
| jRetinguishe<br>j                        | d by: \(Si | ignature)       |                      | Date/Ti                                    | me                                    |                | Receiv                                | red by: (Signature)  | <br>              | 2. Will samples remain refrigerated until analyzed?       |                       |                       |                 |                   |                                       |                                  |  |
| Relinquishe                              | ed by: (Si | ignature)       |                      | Date/Ti                                    | me                                    | i              | Receiv                                | red by: (Signeture)  | i<br>l            | 3. Did any samples received for analysis have head space? |                       |                       |                 |                   |                                       |                                  |  |
| <br> Retinquished by; (Signature)<br>    |            |                 |                      | Date/T                                     | Date/Time   Received by: (Signature)  |                |                                       |                      |                   |   | 43                    | neture                | in ap           | propri            | ٥                                     | ittle Date                       |  |