



July 6, 1995

Eva Chu
Hazardous Materials Specialist
Alameda County Health Agency
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Re: **Tank Removal Closure Report**
Shell Service Station
WIC #204-5508-2808
9750 ~~9570~~ Golf Links Road
Oakland, California
WA Job #81-1055-35

ENVIRONMENTAL
PROTECTION
95 JUL 11 PM 12:17

Dear Ms. Chu:

On behalf of Shell Oil Products Company (Shell), Weiss Associates (WA) is submitting this report documenting the excavation and removal of the underground waste oil storage tank from the above referenced site (Figure 1). Tank removal documentation and soil sampling activities were conducted in accordance with the California Administrative Code, Title 23, Chapter 3, Subchapter 16, UST regulations and the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (Tri-Regional Guidelines). Our scope of work, site background information and soil sampling results are presented below.

Scope of Work

WA's scope of work for this investigation was to:

- Observe the removal of the tank;
- Inspect and document the condition of the tank;
- Collect soil samples from below the tank and from the former tank pit soil stockpile;
- Direct overexcavation activities and collect additional soil samples;
- Analyze the soil samples according to the Tri-Regional Guidelines;
- Characterize the excavated soil and coordinate handling and disposal of soil from the former tank pit; and
- Report the results.

Tank Removal

Station Setting:

The site is an operating Shell service station located at the north corner of Golf Links Road and Mountain Boulevard in Oakland, California (Figure 1). The area surrounding the site is commercial and residential.

Tank Identification Number and Size:

Waste oil tank 15422 was a 550-gallon, single walled, steel tank.

Tank Removal Date:

March 7, 1995

Parties Present:

Eva Chu, Alameda County Health Care Services Agency, Division of Environmental Protection, Department of Environmental Health; Joan L. Austin, City of Oakland, Fire Prevention Bureau; Mark Freitas, Paradiso Mechanical Inc.; and Tim Utterback, WA

Tank Purging:

The tank was emptied and purged prior to removal. Ms. Austin measured the vapor concentration in the tank. The measurement indicated the tank was safe to remove.

Tank Condition:

The tank was rusted in areas, was pitted and had several holes up to 1/2 inch in diameter.

Tank Disposal:

Erickson Inc. transported the tank to their facility in Richmond, California for recycling. Tank manifests and certificates of destruction are presented as Attachment B.

Soil Handling Transport and Disposal:

Prior to disposal, the soil stockpile was stored behind the service station as shown in Figure 2. On May 19, 1995, Manley and Sons Trucking of Sacramento, California hauled about 60 cubic yards of soil to Forward landfill of Stockton, California for disposal.

Soil Sampling and Excavation Results

Sampling and Excavation Date:

March 7, 1995

Sediments Encountered:

Gravel road base to a depth of about 1 foot below ground surface (bgs), sandy clay to about 10 feet bgs, and gravely clay to about 11 feet bgs.

Maximum Excavation Depth:

11 feet bgs

Ground Water Depth:

No ground water was encountered in the excavation.

Soil Sampling Method:

Samples were collected by driving clean brass tubes into undisturbed soil, which a backhoe collected from the excavation bottom and sidewalls. Soil stockpile samples were collected by driving clean brass tubes at least 12 inches beneath the stockpile surface. Sample tubes were immediately sealed with Teflon tape and plastic caps and placed in an iced cooler for transport to the analytical laboratory.

Analytical Laboratory:

Sequoia Analytical in Redwood City, California.

Analytical Methods:

Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) by modified EPA Method 8015, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020, volatile organic compounds (VOCs) by EPA Method 8240, semi-volatile organic compounds (SVOCs) and creosote by EPA Method 8270, polynuclear aromatic compounds (PNAs) by EPA Method 8100, polychlorinated biphenyls (PCBs) by EPA Method 8080, petroleum oil and grease (POG) by American Public Health Association Standard Method 5520E and cadmium, chromium, nickel, lead, and zinc by EPA Method 6010.

Number of Soil Samples: 6 tank removal samples, and 1 tank pit soil stockpile composite. WO1 was collected immediately beneath the tank after tank removal. After WA directed overexcavation of the tank pit, WA collected confirmatory soil samples WO2, NSW, ESW, SSW and WSW.

Analytical Results

Before Overexcavation:

Sample WO1 was collected 7 feet bgs. The soil sample contained 12,000 parts per million (ppm) POG, 3,900 ppm TPH-D, 190 ppm TPH-G, 0.43 ppm toluene and no benzene. The analytic results are summarized in Table 1.

Overexcavation:

WA directed the overexcavation of the tank pit. About four feet of soil was overexcavated from the tank pit bottom to a total depth of 11 feet bgs, and about six inches of soil was overexcavated from each sidewall. About 15 cubic yards of soil was removed.

Analytical Results

After Overexcavation:

Tank pit sidewall soil samples NSW, ESW, SSW, and WSW were below laboratory detection limits for POG, TPH-D, TPH-G, benzene, semivolatile organic compounds, polynuclear aromatic compounds, and PCBs. Pit bottom sample WO2 was below laboratory detection limits for TPH-D, TPH-G, benzene, semivolatile organic compounds, polynuclear aromatic compounds, and PCB's. The only detected hydrocarbons were 62 ppm POG and 0.083 ppm toluene in WO2.

8/23/95
According to
Tim Utterback,
Weiss.
This is part of
60 yd³.

Closure Request

WA recommends closure for the former waste oil tank based on the results of the tank excavation, tank pit overexcavation and soil sampling because:

- the tank was removed and disposed according to state and federal regulations;
- although petroleum hydrocarbons had impacted soil around the tank, the analytic results for the confirmatory soil samples suggest that nearly all petroleum hydrocarbon-bearing soil was removed; and,
- because waste oil is relatively immobile, it is very unlikely that petroleum hydrocarbons impacted ground water. This was confirmed by the near 200-fold attenuation of POG between 7 feet (WO1) and 11 feet (WO2).

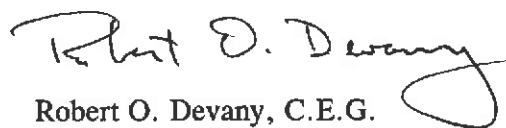
We trust this submittal meets your needs. Please call us if you have any questions or comments.



Sincerely,
Weiss Associates



Tim R. Utterback
Staff Engineer



Robert O. Devany, C.E.G.
Senior Project Hydrogeologist

Attachments: Figure 1. Site Location Map
Figure 2. Soil Sample Locations
Table 1. Summary of Soil Sample Analytic Results

Attachment A. Photographs of Tank Removal Activities
Attachment B. Analytic Results
Attachment C. Tank Manifests and Certificates

cc: Jeff Byram, Shell Oil Products Company, P.O. Box 4023, Concord, CA 94524
Dan Kirk, Shell Oil Products Company, P.O. Box 4023, Concord, CA 94524
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, CA 94612
Tom Fojut, Weiss Associates

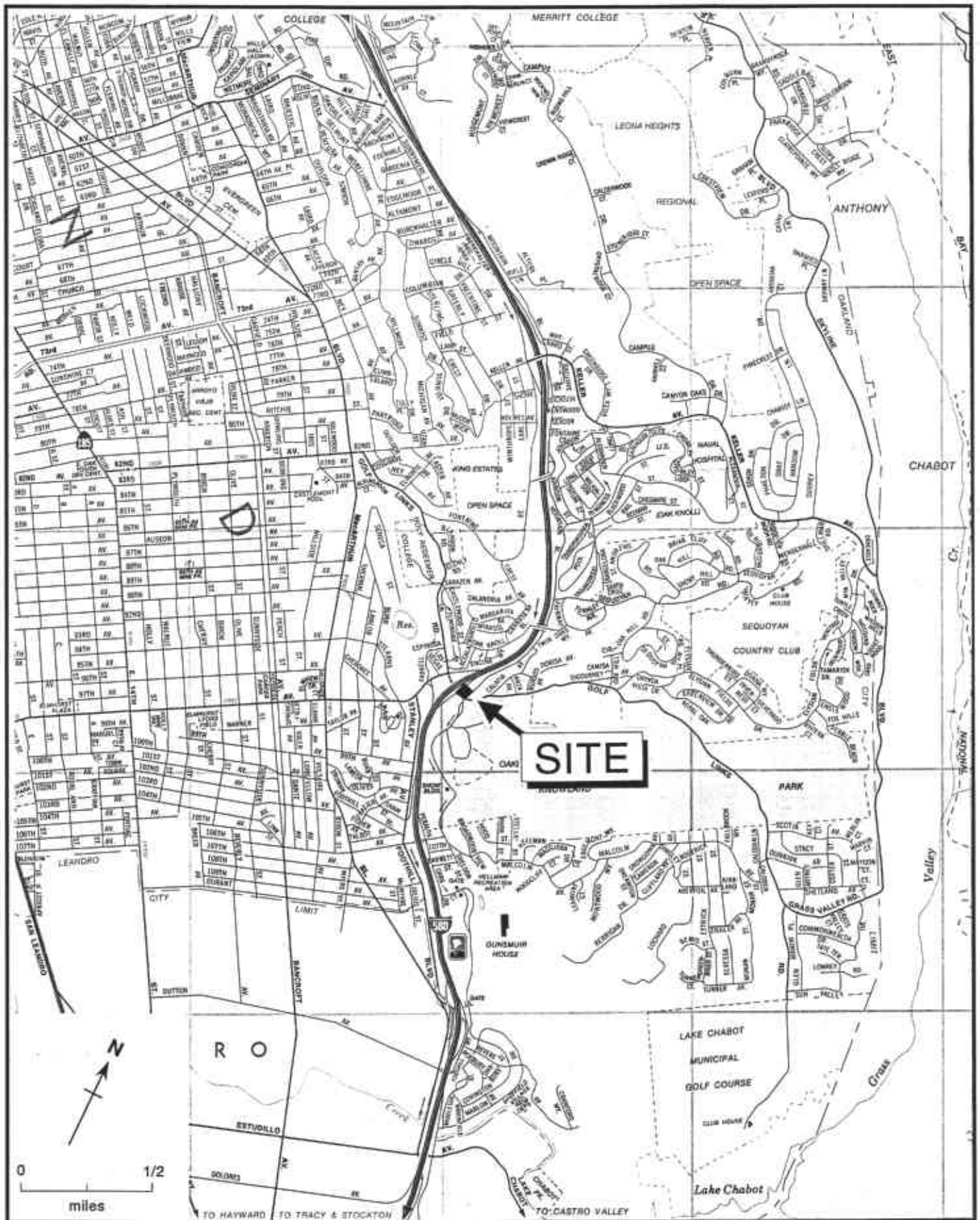


Figure 1. Site Location Map - Shell Service Station, WIC# 204-5508-2808, 9570 Golf Links Road, Oakland, California

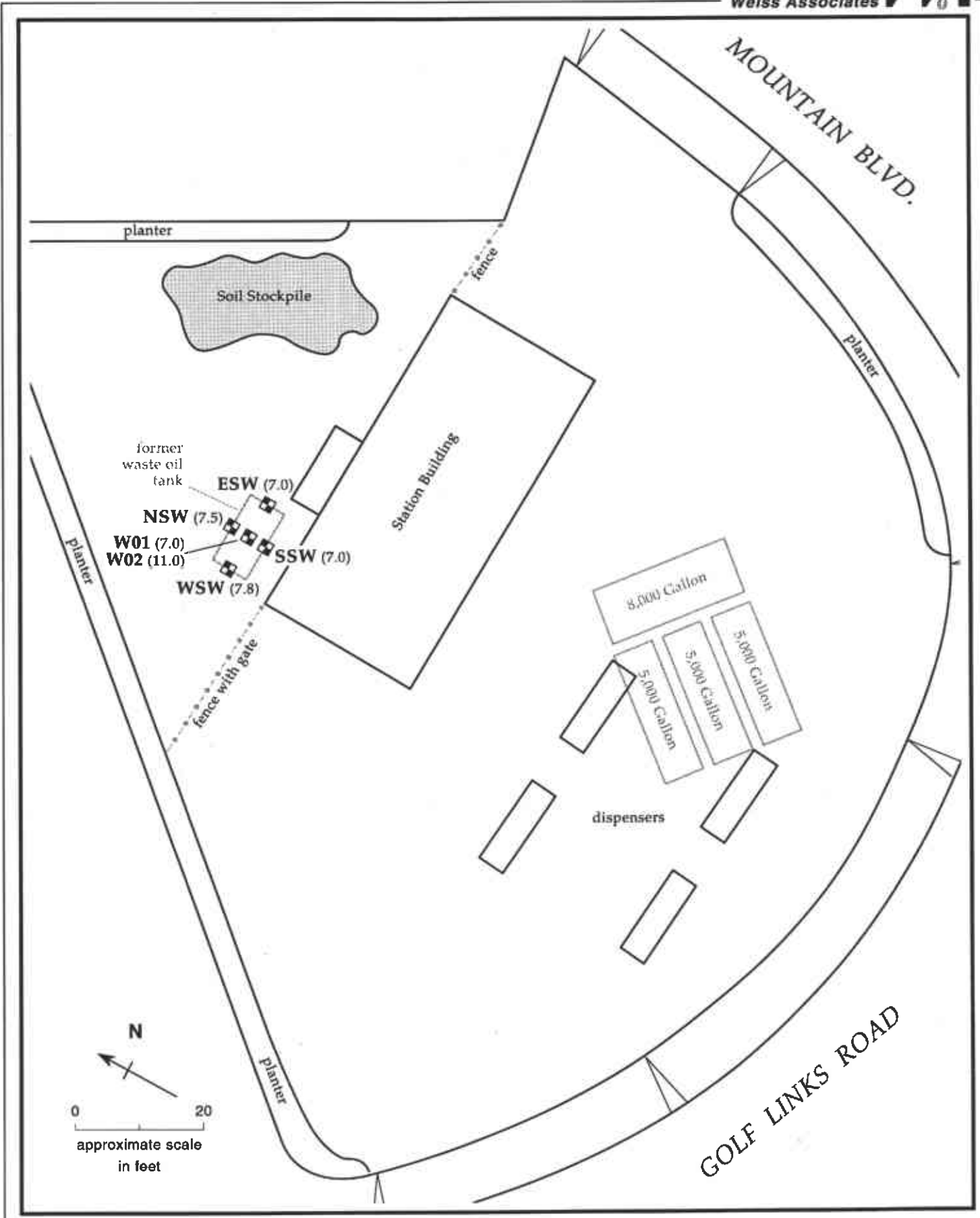


Figure 2. Soil Sample Locations - Shell Service Station, WIC#204-5508-2808, 9570 Golf Links Road, Oakland, California

Table 1. Soil Analytic Results, Shell Service Station , WIC #204-5508-2808, 9570 Golf Links Rd., Oakland, California

| SAMPLE NAME/ID | DEPTH BELOW GROUND SURFACE (ft) | | | | | | | | | parts per million (mg/kg) | | | | | | | | | |
|----------------|---------------------------------|--------|-------|-------|--------|-------|--------|--------|------|---------------------------|------|-----|-----|------|-------|-------|------|----------|--|
| | | POG | TPH-D | TPH-G | B | T | E | X | Cd | Cr | Pb | Ni | Zn | VOCs | SVOCs | PNAAs | PCBs | CREOSOTE | |
| WO1 | 7.0 | 12,000 | 3900 | 190 | <0.25 | 0.43 | 1.0 | 2.2 | <0.5 | 49 | 18 | 39 | 55 | a | ND | ND | 0.60 | <1,700 | |
| WO2 | 11.0 | 62 | <1.0 | <1.0 | <0.005 | 0.072 | <0.005 | <0.005 | <0.5 | 12 | 11 | 7.8 | 210 | ND | ND | ND | ND | <1,700 | |
| NSW | 7.5 | <50 | <1.0 | <1.0 | <0.005 | 0.10 | <0.005 | <0.005 | <0.5 | 51 | 7.0 | 37 | 59 | a | ND | ND | ND | <1,700 | |
| SSW | 7.0 | <50 | <1.0 | <1.0 | <0.005 | 0.19 | <0.005 | <0.005 | <0.5 | 44 | 6.7 | 39 | 79 | ND | ND | ND | ND | <1,700 | |
| ESW | 7.0 | <50 | <1.0 | <1.0 | <0.005 | 0.18 | <0.005 | <0.005 | <0.5 | 46 | <5.0 | 48 | 69 | a | ND | ND | ND | <1,700 | |
| WSW | 7.8 | <50 | <1.0 | <1.0 | <0.005 | 0.083 | <0.005 | <0.005 | <0.5 | 56 | 6.5 | 40 | 62 | ND | ND | ND | ND | <1,700 | |

Abbreviations:

- POG = Total oil and grease by EPA Method 5520E
- TPH-D = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
- TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
- B = Benzene By EPA Method 8020
- T = Toluene by EPA Method 8020
- E = Ethylbenzene by EPA Method 8020
- X = Xylenes by EPA Method 8020
- VOCs = Volatile organic compounds by EPA Method 8240
- SVOCs = Semivolatile organic compounds by EPA Method 8270
- PNAAs = Polynuclear organic compounds by EPA Method 8100
- PCBs = Polychlorinated biphenyls by EPA Method 8080
- CREOSOTE = Creosote by EPA Method 8270
- Cd, Cr, Pb, Ni, Zn = Total cadmium, chromium, lead, nickel and zinc by EPA Method 6010
- <n = Not detected at detection limit of n mg/kg
- ND = All compounds tested by this method were below laboratory detection limits.

Notes:

Samples collected on 03/08/95 by Weiss Associates and analyzed by Sequoia Analytical, Redwood City, California
a = No VOCs detected except for constituents of BTEX

total
Arachlor
1242 and
1254

ATTACHMENT A

PHOTOGRAPHS OF TANK REMOVAL ACTIVITIES



Waste oil tank 15422 immediately after removal from the tank pit.



Inspection of waste oil tank 15422.



Waste oil tank pit before overexcavation.



Waste oil tank pit after final excavation.

ATTACHMENT B

ANALYTIC RESULTS



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
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FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

Project: Shell 9570 Golf Links, OkInd

Enclosed are the results from samples received at Sequoia Analytical on March 8, 1995.
The requested analyses are listed below:

| <u>SAMPLE #</u> | <u>SAMPLE DESCRIPTION</u> | <u>DATE COLLECTED</u> | <u>TEST METHOD</u> |
|-----------------|---------------------------|-----------------------|----------------------------|
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | Total Oil & Grease (5520E) |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | 8080_S Organochlorine Pest |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | 8100_S PNAs |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | 8240_S Volatile Organic Co |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | 8270_S SemiVolatile Organi |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | Cadmium |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | Chromium |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | Nickel |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | Lead |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | Zinc |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | TICSVS 8270 Semivolatile T |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | TPHD_S Extractable TPH |
| 9503630 -01 | SOLID, WO1-7 | 03/08/95 | TPHGBS Purgeable TPH/BTEX |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | Total Oil & Grease (5520E) |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | 8080_S Organochlorine Pest |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | 8100_S PNAs |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | 8240_S Volatile Organic Co |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | 8270_S SemiVolatile Organi |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | Cadmium |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | Chromium |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | Nickel |

SEQUOIA ANALYTICAL



Sequoia Analytical

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FAX (415) 364-9233
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FAX (916) 921-0100

| <u>SAMPLE #</u> | <u>SAMPLE DESCRIPTION</u> | <u>DATE COLLECTED</u> | <u>TEST METHOD</u> |
|-----------------|---------------------------|-----------------------|----------------------------|
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | Lead |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | Zinc |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | TICSVS 8270 Semivolatile T |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | TPHD_S Extractable TPH |
| 9503630 -02 | SOLID, WO2-11 | 03/08/95 | TPHGBS Purgeable TPH/BTEX |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | Total Oil & Grease (5520E) |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | 8080_S Organochlorine Pest |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | 8100_S PNAs |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | 8240_S Volatile Organic Co |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | 8270_S SemiVolatile Organi |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | Cadmium |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | Chromium |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | Nickel |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | Lead |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | Zinc |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | TICSVS 8270 Semivolatile T |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | TPHD_S Extractable TPH |
| 9503630 -03 | SOLID, NSW-7.5 | 03/08/95 | TPHGBS Purgeable TPH/BTEX |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | Total Oil & Grease (5520E) |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | 8080_S Organochlorine Pest |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | 8100_S PNAs |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | 8240_S Volatile Organic Co |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | 8270_S SemiVolatile Organi |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | Cadmium |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | Chromium |

SEQUOIA ANALYTICAL



Sequoia Analytical

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FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

| <u>SAMPLE #</u> | <u>SAMPLE DESCRIPTION</u> | <u>DATE COLLECTED</u> | <u>TEST METHOD</u> |
|-----------------|---------------------------|-----------------------|----------------------------|
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | Nickel |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | Lead |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | Zinc |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | TICSVS 8270 Semivolatile T |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | TPHD_S Extractable TPH |
| 9503630 -04 | SOLID, SSW-7.0 | 03/08/95 | TPHGBS Purgeable TPH/BTEX |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | Total Oil & Grease (5520E) |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | 8080_S Organochlorine Pest |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | 8100_S PNAs |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | 8240_S Volatile Organic Co |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | 8270_S SemiVolatile Organi |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | Cadmium |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | Chromium |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | Nickel |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | Lead |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | Zinc |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | TICSVS 8270 Semivolatile T |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | TPHD_S Extractable TPH |
| 9503630 -05 | SOLID, ESW-7.0 | 03/08/95 | TPHGBS Purgeable TPH/BTEX |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | Total Oil & Grease (5520E) |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | 8080_S Organochlorine Pest |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | 8100_S PNAs |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | 8240_S Volatile Organic Co |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | 8270_S SemiVolatile Organi |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | Cadmium |



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FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

| <u>SAMPLE #</u> | <u>SAMPLE DESCRIPTION</u> | <u>DATE COLLECTED</u> | <u>TEST METHOD</u> |
|-----------------|---------------------------|-----------------------|----------------------------|
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | Chromium |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | Nickel |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | Lead |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | Zinc |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | TICSVS 8270 Semivolatile T |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | TPHD_S Extractable TPH |
| 9503630 -06 | SOLID, WSW-7.75 | 03/08/95 | TPHGBS Purgeable TPH/BTEX |

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | | Received: 03/08/95 |
| Emeryville, CA 94608 | Lab Proj. ID: 9503630 | Analyzed: see below |
| Attention: Tim Utterback | | Reported: 03/20/95 |

LABORATORY ANALYSIS

| Analyte | Units | Date Analyzed | Detection Limit | Sample Results |
|---------|-------|---------------|-----------------|----------------|
|---------|-------|---------------|-----------------|----------------|

Lab No: 9503630-01
 Sample Desc : SOLID,WO1-7

| | | | | |
|----------------------------|-------|----------|------|-------|
| Cadmium | mg/Kg | 03/14/95 | 0.50 | N.D. |
| Chromium | mg/Kg | 03/14/95 | 0.50 | 49 |
| Lead | mg/Kg | 03/14/95 | 5.0 | 18 |
| Nickel | mg/Kg | 03/14/95 | 2.5 | 39 |
| Total Oil & Grease (5520E) | mg/Kg | 03/11/95 | 50 | 12000 |
| Zinc | mg/Kg | 03/14/95 | 0.50 | 55 |

Lab No: 9503630-02
 Sample Desc : SOLID,WO2-11

| | | | | |
|----------------------------|-------|----------|------|------|
| Cadmium | mg/Kg | 03/14/95 | 0.50 | N.D. |
| Chromium | mg/Kg | 03/14/95 | 0.50 | 12 |
| Lead | mg/Kg | 03/14/95 | 5.0 | 11 |
| Nickel | mg/Kg | 03/14/95 | 2.5 | 7.8 |
| Total Oil & Grease (5520E) | mg/Kg | 03/11/95 | 50 | 62 |
| Zinc | mg/Kg | 03/14/95 | 0.50 | 210 |

Lab No: 9503630-03
 Sample Desc : SOLID,NSW-7.5

| | | | | |
|----------------------------|-------|----------|------|------|
| Cadmium | mg/Kg | 03/14/95 | 0.50 | N.D. |
| Chromium | mg/Kg | 03/14/95 | 0.50 | 51 |
| Lead | mg/Kg | 03/14/95 | 5.0 | 7.0 |
| Nickel | mg/Kg | 03/14/95 | 2.5 | 37 |
| Total Oil & Grease (5520E) | mg/Kg | 03/11/95 | 50 | N.D. |
| Zinc | mg/Kg | 03/14/95 | 0.50 | 59 |

Lab No: 9503630-04
 Sample Desc : SOLID,SSW-7.0

| | | | | |
|----------|-------|----------|------|------|
| Cadmium | mg/Kg | 03/14/95 | 0.50 | N.D. |
| Chromium | mg/Kg | 03/14/95 | 0.50 | 44 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
 Project Manager



| | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 | Client Proj. ID: Shell 9570 Golf Links, Okind Lab Proj. ID: 9503630 | Sampled: 03/08/95 Received: 03/08/95 Analyzed: see below Reported: 03/20/95 |
| Attention: Tim Utterback | | |

LABORATORY ANALYSIS

| Analyte | Units | Date Analyzed | Detection Limit | Sample Results |
|----------------------------|-------|---------------|-----------------|----------------|
| Lead | mg/Kg | 03/14/95 | 5.0 | 6.7 |
| Nickel | mg/Kg | 03/14/95 | 2.5 | 39 |
| Total Oil & Grease (5520E) | mg/Kg | 03/11/95 | 50 | N.D. |
| Zinc | mg/Kg | 03/14/95 | 0.50 | 79 |

Lab No: 9503630-05
 Sample Desc: **SOLID,ESW-7.0**

| | | | | |
|----------------------------|-------|----------|------|------|
| Cadmium | mg/Kg | 03/14/95 | 0.50 | N.D. |
| Chromium | mg/Kg | 03/14/95 | 0.50 | 46 |
| Lead | mg/Kg | 03/14/95 | 5.0 | N.D. |
| Nickel | mg/Kg | 03/14/95 | 2.5 | 48 |
| Total Oil & Grease (5520E) | mg/Kg | 03/11/95 | 50 | N.D. |
| Zinc | mg/Kg | 03/14/95 | 0.50 | 69 |

Lab No: 9503630-06
 Sample Desc: **SOLID,WSW-7.75**

| | | | | |
|----------------------------|-------|----------|------|------|
| Cadmium | mg/Kg | 03/14/95 | 0.50 | N.D. |
| Chromium | mg/Kg | 03/14/95 | 0.50 | 56 |
| Lead | mg/Kg | 03/14/95 | 5.0 | 6.5 |
| Nickel | mg/Kg | 03/14/95 | 2.5 | 40 |
| Total Oil & Grease (5520E) | mg/Kg | 03/11/95 | 50 | N.D. |
| Zinc | mg/Kg | 03/14/95 | 0.50 | 62 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WO1-7 Matrix: SOLID Analysis Method: EPA 8080 Lab Number: 9503630-01 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC0309958080EXA
Instrument ID: GCHP10

Organochlorine Pesticides and PCBs (EPA 8080)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------|--------------------------|-------------------------|
| Aldrin | 5.0 | N.D. |
| alpha-BHC | 5.0 | N.D. |
| beta-BHC | 5.0 | N.D. |
| delta-BHC | 5.0 | N.D. |
| gamma-BHC (Lindane) | 5.0 | N.D. |
| Chlordane | 100 | N.D. |
| 4,4'-DDD | 30 | N.D. |
| 4,4'-DDE | 10 | N.D. |
| 4,4'-DDT | 30 | N.D. |
| Dieldrin | 10 | N.D. |
| Endosulfan I | 10 | N.D. |
| Endosulfan II | 10 | N.D. |
| Endosulfan sulfate | 30 | N.D. |
| Endrin | 10 | N.D. |
| Endrin aldehyde | 30 | N.D. |
| Heptachlor | 5.0 | N.D. |
| Heptachlor epoxide | 5.0 | N.D. |
| Methoxychlor | 100 | N.D. |
| Toxaphene | 400 | N.D. |
| PCB-1016 | 100 | N.D. |
| PCB-1221 | 400 | N.D. |
| PCB-1232 | 100 | N.D. |
| PCB-1242 | 100 | 240 |
| PCB-1248 | 100 | N.D. |
| PCB-1254 | 100 | 360 |
| PCB-1260 | 100 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|---------------------|------------------|------------|
| Dibutylchloroendate | 30 150 | 134 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WO1-7 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/14/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8100 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-01 | Reported: 03/20/95 |

QC Batch Number: GC0309958100EXB
Instrument ID: GCHP11

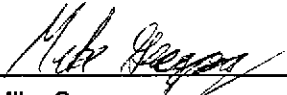
Polynuclear Aromatic Hydrocarbons (EPA 8100)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|------------------------|--------------------------|-------------------------|
| Acenaphthene | 2500 | N.D. |
| Acenaphthylene | 2500 | N.D. |
| Anthracene | 2500 | N.D. |
| Benzo(a)anthracene | 2500 | N.D. |
| Benzo(a)pyrene | 2500 | N.D. |
| Benzo(b)fluoranthene | 2500 | N.D. |
| Benzo(g,h,i)perylene | 2500 | N.D. |
| Benzo(k)fluoranthene | 2500 | N.D. |
| Chrysene | 2500 | N.D. |
| Dibenzo(a,h)anthracene | 2500 | N.D. |
| Fluoranthene | 2500 | N.D. |
| Fluorene | 2500 | N.D. |
| Indeno(1,2,3-cd)pyrene | 2500 | N.D. |
| Naphthalene | 2500 | N.D. |
| Phenanthrene | 2500 | N.D. |
| Pyrene | 2500 | N.D. |

| | | |
|-------------------|-----------------------------|-------------------|
| Surrogates | Control Limits % | % Recovery |
| 2-Fluorobiphenyl | 50 150 | 84 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WO1-7 Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9503630-01 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0308958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------------|--------------------------|-------------------------|
| Acetone | 1000 | N.D. |
| Benzene | 200 | N.D. |
| Bromodichloromethane | 200 | N.D. |
| Bromoform | 200 | N.D. |
| Bromomethane | 200 | N.D. |
| 2-Butanone | 1000 | N.D. |
| Carbon disulfide | 200 | N.D. |
| Carbon tetrachloride | 200 | N.D. |
| Chlorobenzene | 200 | N.D. |
| Chloroethane | 200 | N.D. |
| 2-Chloroethyl vinyl ether | 1000 | N.D. |
| Chloroform | 200 | N.D. |
| Chloromethane | 200 | N.D. |
| Dibromochloromethane | 200 | N.D. |
| 1,1-Dichloroethane | 200 | N.D. |
| 1,2-Dichloroethane | 200 | N.D. |
| 1,1-Dichloroethene | 200 | N.D. |
| cis-1,2-Dichloroethene | 200 | N.D. |
| trans-1,2-Dichloroethene | 200 | N.D. |
| 1,2-Dichloropropane | 200 | N.D. |
| cis-1,3-Dichloropropene | 200 | N.D. |
| trans-1,3-Dichloropropene | 200 | N.D. |
| Ethylbenzene | 200 | 910 |
| 2-Hexanone | 1000 | N.D. |
| Methylene chloride | 500 | N.D. |
| 4-Methyl-2-pentanone | 1000 | N.D. |
| Styrene | 200 | N.D. |
| 1,1,2,2-Tetrachloroethane | 200 | N.D. |
| Tetrachloroethene | 200 | N.D. |
| Toluene | 200 | 210 |
| 1,1,1-Trichloroethane | 200 | N.D. |
| 1,1,2-Trichloroethane | 200 | N.D. |
| Trichloroethene | 200 | N.D. |
| Trichlorofluoromethane | 200 | N.D. |
| Vinyl acetate | 200 | N.D. |



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

| | | |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WO1-7 Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9503630-01 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0308958240EXA
 Instrument ID: F3

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------|--------------------------|-------------------------|
| Vinyl chloride | 200 | N.D. |
| Total Xylenes | 200 | 1600 |

| Surrogates | Control Limits % | % Recovery |
|-----------------------|------------------|------------|
| 1,2-Dichloroethane-d4 | 70 121 | 88 |
| Toluene-d8 | 81 117 | 91 |
| 4-Bromofluorobenzene | 74 121 | 92 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: WO1-7 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-01 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/16/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0311958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|-----------------------------|--------------------------|-------------------------|
| Acenaphthene | 25000 | N.D. |
| Acenaphthylene | 25000 | N.D. |
| Anthracene | 25000 | N.D. |
| Benzoic Acid | 50000 | N.D. |
| Benzo(a)anthracene | 25000 | N.D. |
| Benzo(b)fluoranthene | 25000 | N.D. |
| Benzo(k)fluoranthene | 25000 | N.D. |
| Benzo(g,h,i)perylene | 25000 | N.D. |
| Benzo(a)pyrene | 25000 | N.D. |
| Benzyl alcohol | 25000 | N.D. |
| Bis(2-chloroethoxy)methane | 25000 | N.D. |
| Bis(2-chloroethyl)ether | 25000 | N.D. |
| Bis(2-chloroisopropyl)ether | 25000 | N.D. |
| Bis(2-ethylhexyl)phthalate | 50000 | N.D. |
| 4-Bromophenyl phenyl ether | 25000 | N.D. |
| Butyl benzyl phthalate | 25000 | N.D. |
| 4-Chloroaniiline | 50000 | N.D. |
| 2-Chloronaphthalene | 25000 | N.D. |
| 4-Chloro-3-methylphenol | 25000 | N.D. |
| 2-Chlorophenol | 25000 | N.D. |
| 4-Chlorophenyl phenyl ether | 25000 | N.D. |
| Chrysene | 25000 | N.D. |
| Dibenzo(a,h)anthracene | 25000 | N.D. |
| Dibenzofuran | 25000 | N.D. |
| Di-n-butyl phthalate | 50000 | N.D. |
| 1,2-Dichlorobenzene | 25000 | N.D. |
| 1,3-Dichlorobenzene | 25000 | N.D. |
| 1,4-Dichlorobenzene | 25000 | N.D. |
| 3,3-Dichlorobenzidine | 50000 | N.D. |
| 2,4-Dichlorophenol | 25000 | N.D. |
| Diethyl phthalate | 25000 | N.D. |
| 2,4-Dimethylphenol | 25000 | N.D. |
| Dimethyl phthalate | 25000 | N.D. |
| 4,6-Dinitro-2-methylphenol | 50000 | N.D. |
| 2,4-Dinitrophenol | 50000 | N.D. |



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| | | |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okln Sample Descript: WO1-7 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-01 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/16/95 Reported: 03/20/95 |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------------------|--------------------------|-------------------------|
| 2,4-Dinitrotoluene | 25000 | N.D. |
| 2,6-Dinitrotoluene | 25000 | N.D. |
| Di-n-octyl phthalate | 25000 | N.D. |
| Fluoranthene | 25000 | N.D. |
| Fluorene | 25000 | N.D. |
| Hexachlorobenzene | 25000 | N.D. |
| Hexachlorobutadiene | 25000 | N.D. |
| Hexachlorocyclopentadiene | 50000 | N.D. |
| Hexachloroethane | 25000 | N.D. |
| Indeno(1,2,3-cd)pyrene | 25000 | N.D. |
| Isophorone | 25000 | N.D. |
| 2-Methylnaphthalene | 25000 | N.D. |
| 2-Methylphenol | 25000 | N.D. |
| 4-Methylphenol | 25000 | N.D. |
| Naphthalene | 25000 | N.D. |
| 2-Nitroaniline | 50000 | N.D. |
| 3-Nitroaniline | 50000 | N.D. |
| 4-Nitroaniline | 50000 | N.D. |
| Nitrobenzene | 25000 | N.D. |
| 2-Nitrophenol | 25000 | N.D. |
| 4-Nitrophenol | 50000 | N.D. |
| N-Nitrosodiphenylamine | 25000 | N.D. |
| N-Nitroso-di-n-propylamine | 25000 | N.D. |
| Pentachlorophenol | 50000 | N.D. |
| Phenanthrene | 25000 | N.D. |
| Phenol | 25000 | N.D. |
| Pyrene | 25000 | N.D. |
| 1,2,4-Trichlorobenzene | 25000 | N.D. |
| 2,4,5-Trichlorophenol | 50000 | N.D. |
| 2,4,6-Trichlorophenol | 25000 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|----------------------|------------------|-----|------------|
| 2-Fluorophenol | 25 | 121 | Q |
| Phenol-d5 | 24 | 113 | Q |
| Nitrobenzene-d5 | 23 | 120 | Q |
| 2-Fluorobiphenyl | 30 | 115 | Q |
| 2,4,6-Tribromophenol | 19 | 122 | Q |
| p-Terphenyl-d14 | 18 | 137 | Q |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WO1-7 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/16/95 |
| | Lab Number: 9503630-01 | Reported: 03/20/95 |

Instrument ID: H5

Semivolatile Tentatively Identified Compounds

| Analyte | Detection Limit ug/Kg * | Sample Results ug/Kg * |
|----------|----------------------------|---------------------------|
| CREOSOTE | 1700000 | N.D. |

Please Note:
All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA NIST library.
Positive identification or specification between isomers cannot be made without retention time standards.
* Estimated

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WO1-7 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/14/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8015 Mod | Analyzed: 03/16/95 |
| | Lab Number: 9503630-01 | Reported: 03/20/95 |

QC Batch Number: GC0313950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------------------------|--------------------------|-------------------------|
| TEPH as Diesel Chromatogram Pattern: | 1.0 | 3900 C16-C24 |

| Surrogates | Control Limits % | % Recovery |
|---------------------|-----------------------------|------------|
| n-Pentacosane (C25) | 50 150 | 0 Q |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WO1-7 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9503630-01 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/12/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC031295BTEXEXB
Instrument ID: GCHP07

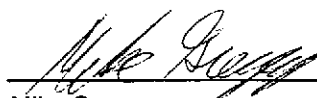
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------|--------------------------|-------------------------|
| TPPH as Gas | 50 | 190 |
| Benzene | 0.25 | N.D. |
| Toluene | 0.25 | 0.43 |
| Ethyl Benzene | 0.25 | 1.0 |
| Xylenes (Total) | 0.25 | 2.2 |
| Chromatogram Pattern: | | C6-C12 |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 130 | 112 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: WO2-11 Matrix: SOLID Analysis Method: EPA 8080 Lab Number: 9503630-02 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/14/95 Reported: 03/20/95 |
| Attention: Tim Utterback | | |

QC Batch Number: GC0309958080EXA
Instrument ID: GCHP10

Organochlorine Pesticides and PCBs (EPA 8080)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------|--------------------------|-------------------------|
| Aldrin | 1.0 | N.D. |
| alpha-BHC | 1.0 | N.D. |
| beta-BHC | 1.0 | N.D. |
| delta-BHC | 1.0 | N.D. |
| gamma-BHC (Lindane) | 1.0 | N.D. |
| Chlordane | 20 | N.D. |
| 4,4'-DDD | 6.0 | N.D. |
| 4,4'-DDE | 2.0 | N.D. |
| 4,4'-DDT | 6.0 | N.D. |
| Dieldrin | 2.0 | N.D. |
| Endosulfan I | 2.0 | N.D. |
| Endosulfan II | 2.0 | N.D. |
| Endosulfan sulfate | 6.0 | N.D. |
| Endrin | 2.0 | N.D. |
| Endrin aldehyde | 6.0 | N.D. |
| Heptachlor | 1.0 | N.D. |
| Heptachlor epoxide | 1.0 | N.D. |
| Methoxychlor | 20 | N.D. |
| Toxaphene | 80 | N.D. |
| PCB-1016 | 20 | N.D. |
| PCB-1221 | 80 | N.D. |
| PCB-1232 | 20 | N.D. |
| PCB-1242 | 20 | N.D. |
| PCB-1248 | 20 | N.D. |
| PCB-1254 | 20 | N.D. |
| PCB-1260 | 20 | N.D. |

| | | |
|---------------------|-----------------------------|-------------------|
| Surrogates | Control Limits % | % Recovery |
| Dibutylchloroendate | 30 150 | 84 |

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager



| | | |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WO2-11 Matrix: SOLID Analysis Method: EPA 8100 Lab Number: 9503630-02 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/14/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

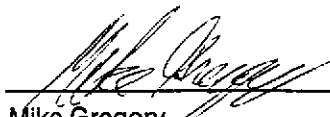
QC Batch Number: GC0309958100EXB
Instrument ID: GCHP11

Polynuclear Aromatic Hydrocarbons (EPA 8100)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|------------------------|-----------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| Phenanthrene | 250 | N.D. |
| Pyrene | 250 | N.D. |
| Surrogates | Control Limits % | % Recovery |
| 2-Fluorobiphenyl | 50 150 | 65 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WO2-11 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8240 | Analyzed: 03/13/95 |
| | Lab Number: 9503630-02 | Reported: 03/20/95 |

QC Batch Number: MS0308958240EXA
 Instrument ID: F3

Volatile Organics (EPA 8240)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------------|--------------------------|-------------------------|
| Acetone | 500 | N.D. |
| Benzene | 100 | N.D. |
| Bromodichloromethane | 100 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| 2-Butanone | 500 | N.D. |
| Carbon disulfide | 100 | N.D. |
| Carbon tetrachloride | 100 | N.D. |
| Chlorobenzene | 100 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethyl vinyl ether | 500 | N.D. |
| Chloroform | 100 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 100 | N.D. |
| 1,1-Dichloroethane | 100 | N.D. |
| 1,2-Dichloroethane | 100 | N.D. |
| 1,1-Dichloroethene | 100 | N.D. |
| cis-1,2-Dichloroethene | 100 | N.D. |
| trans-1,2-Dichloroethene | 100 | N.D. |
| 1,2-Dichloropropane | 100 | N.D. |
| cis-1,3-Dichloropropene | 100 | N.D. |
| trans-1,3-Dichloropropene | 100 | N.D. |
| Ethylbenzene | 100 | N.D. |
| 2-Hexanone | 500 | N.D. |
| Methylene chloride | 250 | N.D. |
| 4-Methyl-2-pentanone | 500 | N.D. |
| Styrene | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 100 | N.D. |
| Tetrachloroethene | 100 | N.D. |
| Toluene | 100 | N.D. |
| 1,1,1-Trichloroethane | 100 | N.D. |
| 1,1,2-Trichloroethane | 100 | N.D. |
| Trichloroethene | 100 | N.D. |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl acetate | 100 | N.D. |



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FAX (916) 921-0100

| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WO2-11 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8240 | Analyzed: 03/13/95 |
| | Lab Number: 9503630-02 | Reported: 03/20/95 |

QC Batch Number: MS0308958240EXA
Instrument ID: F3

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------|--------------------------|-------------------------|
| Vinyl chloride | 100 | N.D. |
| Total Xylenes | 100 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|-----------------------|------------------|-----|------------|
| 1,2-Dichloroethane-d4 | 70 | 121 | 88 |
| Toluene-d8 | 81 | 117 | 102 |
| 4-Bromofluorobenzene | 74 | 121 | 100 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WO2-11 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-02 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0311958270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|-----------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzoic Acid | 500 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzyl alcohol | 250 | N.D. |
| Bis(2-chloroethoxy)methane | 250 | N.D. |
| Bis(2-chloroethyl)ether | 250 | N.D. |
| Bis(2-chloroisopropyl)ether | 250 | N.D. |
| Bis(2-ethylhexyl)phthalate | 500 | N.D. |
| 4-Bromophenyl phenyl ether | 250 | N.D. |
| Butyl benzyl phthalate | 250 | N.D. |
| 4-Chloroaniline | 500 | N.D. |
| 2-Chloronaphthalene | 250 | N.D. |
| 4-Chloro-3-methylphenol | 250 | N.D. |
| 2-Chlorophenol | 250 | N.D. |
| 4-Chlorophenyl phenyl ether | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Dibenzofuran | 250 | N.D. |
| Di-n-butyl phthalate | 500 | N.D. |
| 1,2-Dichlorobenzene | 250 | N.D. |
| 1,3-Dichlorobenzene | 250 | N.D. |
| 1,4-Dichlorobenzene | 250 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. |
| 2,4-Dichlorophenol | 250 | N.D. |
| Diethyl phthalate | 250 | N.D. |
| 2,4-Dimethylphenol | 250 | N.D. |
| Dimethyl phthalate | 250 | N.D. |
| 4,6-Dinitro-2-methylphenol | 500 | N.D. |
| 2,4-Dinitrophenol | 500 | N.D. |



Sequoia Analytical

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| | | |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okln Sample Descript: WO2-11 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-02 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0311958270EXA
Instrument ID: H5

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------------------|--------------------------|-------------------------|
| 2,4-Dinitrotoluene | 250 | N.D. |
| 2,6-Dinitrotoluene | 250 | N.D. |
| Di-n-octyl phthalate | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Hexachlorobenzene | 250 | N.D. |
| Hexachlorobutadiene | 250 | N.D. |
| Hexachlorocyclopentadiene | 500 | N.D. |
| Hexachloroethane | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Isophorone | 250 | N.D. |
| 2-Methylnaphthalene | 250 | N.D. |
| 2-Methylphenol | 250 | N.D. |
| 4-Methylphenol | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| 2-Nitroaniline | 500 | N.D. |
| 3-Nitroaniline | 500 | N.D. |
| 4-Nitroaniline | 500 | N.D. |
| Nitrobenzene | 250 | N.D. |
| 2-Nitrophenol | 250 | N.D. |
| 4-Nitrophenol | 500 | N.D. |
| N-Nitrosodiphenylamine | 250 | N.D. |
| N-Nitroso-di-n-propylamine | 250 | N.D. |
| Pentachlorophenol | 500 | N.D. |
| Phenanthrene | 250 | N.D. |
| Phenol | 250 | N.D. |
| Pyrene | 250 | N.D. |
| 1,2,4-Trichlorobenzene | 250 | N.D. |
| 2,4,5-Trichlorophenol | 500 | N.D. |
| 2,4,6-Trichlorophenol | 250 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|----------------------|------------------|-----|------------|
| 2-Fluorophenol | 25 | 121 | 66 |
| Phenol-d5 | 24 | 113 | 78 |
| Nitrobenzene-d5 | 23 | 120 | 78 |
| 2-Fluorobiphenyl | 30 | 115 | 80 |
| 2,4,6-Tribromophenol | 19 | 122 | 55 |
| p-Terphenyl-d14 | 18 | 137 | 90 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WO2-11 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-02 | Reported: 03/20/95 |

Instrument ID: H5

Semivolatile Tentatively Identified Compounds

| Analyte | Detection Limit ug/Kg * | Sample Results ug/Kg * |
|----------|----------------------------|---------------------------|
| CREOSOTE | 17000 | N.D. |

Please Note:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA NIST library. Positive identification or specification between isomers cannot be made without retention time standards.

* Estimated

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: WO2-11 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9503630-02 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/14/95 Analyzed: 03/16/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC0313950HBPEXA
Instrument ID: GCHP4B

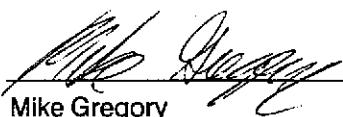
Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------------------------|--------------------------|-------------------------|
| TEPH as Diesel Chromatogram Pattern: | 1.0 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|---------------------|-----------------------------|------------|
| n-Pentacosane (C25) | 50 150 | 93 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: WO2-11 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9503630-02 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/12/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC031295BTEXEXB
Instrument ID: GCHP07

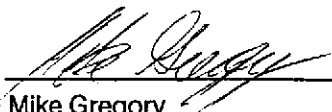
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------|--------------------------|-------------------------|
| TPPH as Gas | 1.0 | N.D. |
| Benzene | 0.0050 | N.D. |
| Toluene | 0.0050 | 0.072 |
| Ethyl Benzene | 0.0050 | N.D. |
| Xylenes (Total) | 0.0050 | N.D. |
| Chromatogram Pattern: | | C7-C8 |

| Surrogates | Control Limits % | % Recovery |
|------------------|-----------------------------|------------|
| Trifluorotoluene | 70 130 | 91 |

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager



| | | |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: NSW-7.5 Matrix: SOLID Analysis Method: EPA 8080 Lab Number: 9503630-03 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC0309958080EXA
 Instrument ID: GCHP10

Organochlorine Pesticides and PCBs (EPA 8080)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------|--------------------------|-------------------------|
| Aldrin | 1.0 | N.D. |
| alpha-BHC | 1.0 | N.D. |
| beta-BHC | 1.0 | N.D. |
| delta-BHC | 1.0 | N.D. |
| gamma-BHC (Lindane) | 1.0 | N.D. |
| Chlordane | 20 | N.D. |
| 4,4'-DDD | 6.0 | N.D. |
| 4,4'-DDE | 2.0 | N.D. |
| 4,4'-DDT | 6.0 | N.D. |
| Dieldrin | 2.0 | N.D. |
| Endosulfan I | 2.0 | N.D. |
| Endosulfan II | 2.0 | N.D. |
| Endosulfan sulfate | 6.0 | N.D. |
| Endrin | 2.0 | N.D. |
| Endrin aldehyde | 6.0 | N.D. |
| Heptachlor | 1.0 | N.D. |
| Heptachlor epoxide | 1.0 | N.D. |
| Methoxychlor | 20 | N.D. |
| Toxaphene | 80 | N.D. |
| PCB-1016 | 20 | N.D. |
| PCB-1221 | 80 | N.D. |
| PCB-1232 | 20 | N.D. |
| PCB-1242 | 20 | N.D. |
| PCB-1248 | 20 | N.D. |
| PCB-1254 | 20 | N.D. |
| PCB-1260 | 20 | N.D. |

| | | |
|--------------------|-------------------------|-------------------|
| Surrogates | Control Limits % | % Recovery |
| Dibutylchlorendate | 30 150 | 91 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/14/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8100 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: GC0309958100EXB
Instrument ID: GCHP11

Polynuclear Aromatic Hydrocarbons (EPA 8100)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| Phenanthrene | 250 | N.D. |
| Pyrene | 250 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|------------------|-----------------------------|------------|
| 2-Fluorobiphenyl | 50 150 | 67 |

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8240 | Analyzed: 03/13/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: MS0308958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------------|--------------------------|-------------------------|
| Acetone | 500 | N.D. |
| Benzene | 100 | N.D. |
| Bromodichloromethane | 100 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| 2-Butanone | 500 | N.D. |
| Carbon disulfide | 100 | N.D. |
| Carbon tetrachloride | 100 | N.D. |
| Chlorobenzene | 100 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethyl vinyl ether | 500 | N.D. |
| Chloroform | 100 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 100 | N.D. |
| 1,1-Dichloroethane | 100 | N.D. |
| 1,2-Dichloroethane | 100 | N.D. |
| 1,1-Dichloroethene | 100 | N.D. |
| cis-1,2-Dichloroethene | 100 | N.D. |
| trans-1,2-Dichloroethene | 100 | N.D. |
| 1,2-Dichloropropane | 100 | N.D. |
| cis-1,3-Dichloropropene | 100 | N.D. |
| trans-1,3-Dichloropropene | 100 | N.D. |
| Ethylbenzene | 100 | N.D. |
| 2-Hexanone | 500 | N.D. |
| Methylene chloride | 250 | N.D. |
| 4-Methyl-2-pentanone | 500 | N.D. |
| Styrene | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 100 | N.D. |
| Tetrachloroethene | 100 | N.D. |
| Toluene | 100 | 120 |
| 1,1,1-Trichloroethane | 100 | N.D. |
| 1,1,2-Trichloroethane | 100 | N.D. |
| Trichloroethene | 100 | N.D. |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl acetate | 100 | N.D. |



Sequoia Analytical

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

| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8240 | Analyzed: 03/13/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: MS0308958240EXA
Instrument ID: F3

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------|--------------------------|-------------------------|
| Vinyl chloride | 100 | N.D. |
| Total Xylenes | 100 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|-----------------------|------------------|-----|------------|
| 1,2-Dichloroethane-d4 | 70 | 121 | 87 |
| Toluene-d8 | 81 | 117 | 101 |
| 4-Bromofluorobenzene | 74 | 121 | 100 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

Semivolatile Organics (EPA 8270)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|-----------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzoic Acid | 500 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzyl alcohol | 250 | N.D. |
| Bis(2-chloroethoxy)methane | 250 | N.D. |
| Bis(2-chloroethyl)ether | 250 | N.D. |
| Bis(2-chloroisopropyl)ether | 250 | N.D. |
| Bis(2-ethylhexyl)phthalate | 500 | N.D. |
| 4-Bromophenyl phenyl ether | 250 | N.D. |
| Butyl benzyl phthalate | 250 | N.D. |
| 4-Chloroaniline | 500 | N.D. |
| 2-Chloronaphthalene | 250 | N.D. |
| 4-Chloro-3-methylphenol | 250 | N.D. |
| 2-Chlorophenol | 250 | N.D. |
| 4-Chlorophenyl phenyl ether | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Dibenzofuran | 250 | N.D. |
| Di-n-butyl phthalate | 500 | N.D. |
| 1,2-Dichlorobenzene | 250 | N.D. |
| 1,3-Dichlorobenzene | 250 | N.D. |
| 1,4-Dichlorobenzene | 250 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. |
| 2,4-Dichlorophenol | 250 | N.D. |
| Diethyl phthalate | 250 | N.D. |
| 2,4-Dimethylphenol | 250 | N.D. |
| Dimethyl phthalate | 250 | N.D. |
| 4,6-Dinitro-2-methylphenol | 500 | N.D. |
| 2,4-Dinitrophenol | 500 | N.D. |



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

| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------------------|--------------------------|-------------------------|
| 2,4-Dinitrotoluene | 250 | N.D. |
| 2,6-Dinitrotoluene | 250 | N.D. |
| Di-n-octyl phthalate | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Hexachlorobenzene | 250 | N.D. |
| Hexachlorobutadiene | 250 | N.D. |
| Hexachlorocyclopentadiene | 500 | N.D. |
| Hexachloroethane | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Isophorone | 250 | N.D. |
| 2-Methylnaphthalene | 250 | N.D. |
| 2-Methylphenol | 250 | N.D. |
| 4-Methylphenol | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| 2-Nitroaniline | 500 | N.D. |
| 3-Nitroaniline | 500 | N.D. |
| 4-Nitroaniline | 500 | N.D. |
| Nitrobenzene | 250 | N.D. |
| 2-Nitrophenol | 250 | N.D. |
| 4-Nitrophenol | 500 | N.D. |
| N-Nitrosodiphenylamine | 250 | N.D. |
| N-Nitroso-di-n-propylamine | 250 | N.D. |
| Pentachlorophenol | 500 | N.D. |
| Phenanthrene | 250 | N.D. |
| Phenol | 250 | N.D. |
| Pyrene | 250 | N.D. |
| 1,2,4-Trichlorobenzene | 250 | N.D. |
| 2,4,5-Trichlorophenol | 500 | N.D. |
| 2,4,6-Trichlorophenol | 250 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|----------------------|------------------|-----|------------|
| 2-Fluorophenol | 25 | 121 | 66 |
| Phenol-d5 | 24 | 113 | 75 |
| Nitrobenzene-d5 | 23 | 120 | 77 |
| 2-Fluorobiphenyl | 30 | 115 | 79 |
| 2,4,6-Tribromophenol | 19 | 122 | 57 |
| p-Terphenyl-d14 | 18 | 137 | 90 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: NSW-7.5 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-03 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

Instrument ID: H5

Semivolatile Tentatively Identified Compounds

| Analyte | Detection Limit * ug/Kg | Sample Results * ug/Kg |
|----------|----------------------------|---------------------------|
| CREOSOTE | 17000 | N.D. |

Please Note:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA NIST library. Positive identification or specification between isomers cannot be made without retention time standards.

* Estimated

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Oklnd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/14/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8015 Mod | Analyzed: 03/16/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: GC0313950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------------------------|-----------------------------|-------------------------|
| TEPH as Diesel Chromatogram Pattern: | 1.0 | N.D. |
| Surrogates | Control Limits % | % Recovery |
| n-Pentacosane (C25) | 50 150 | 97 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: NSW-7.5 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/12/95 |
| Attention: Tim Utterback | Analysis Method: 8015Mod/8020 | Analyzed: 03/14/95 |
| | Lab Number: 9503630-03 | Reported: 03/20/95 |

QC Batch Number: GC031295BTEXEXB
 Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|------------------------------|--------------------------|-------------------------|
| TPPH as Gas | 1.0 | N.D. |
| Benzene | 0.0050 | N.D. |
| Toluene | 0.0050 | 0.10 |
| Ethyl Benzene | 0.0050 | N.D. |
| Xylenes (Total) | 0.0050 | N.D. |
| Chromatogram Pattern: | | C7-C8 |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 130 | 101 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: SSW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8080 | Analyzed: 03/14/95 |
| | Lab Number: 9503630-04 | Reported: 03/20/95 |

QC Batch Number: GC0309958080EXA
 Instrument ID: GCHP10

Organochlorine Pesticides and PCBs (EPA 8080)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------|--------------------------|-------------------------|
| Aldrin | 1.0 | N.D. |
| alpha-BHC | 1.0 | N.D. |
| beta-BHC | 1.0 | N.D. |
| delta-BHC | 1.0 | N.D. |
| gamma-BHC (Lindane) | 1.0 | N.D. |
| Chlordane | 20 | N.D. |
| 4,4'-DDD | 6.0 | N.D. |
| 4,4'-DDE | 2.0 | N.D. |
| 4,4'-DDT | 6.0 | N.D. |
| Dieldrin | 2.0 | N.D. |
| Endosulfan I | 2.0 | N.D. |
| Endosulfan II | 2.0 | N.D. |
| Endosulfan sulfate | 6.0 | N.D. |
| Endrin | 2.0 | N.D. |
| Endrin aldehyde | 6.0 | N.D. |
| Heptachlor | 1.0 | N.D. |
| Heptachlor epoxide | 1.0 | N.D. |
| Methoxychlor | 20 | N.D. |
| Toxaphene | 80 | N.D. |
| PCB-1016 | 20 | N.D. |
| PCB-1221 | 80 | N.D. |
| PCB-1232 | 20 | N.D. |
| PCB-1242 | 20 | N.D. |
| PCB-1248 | 20 | N.D. |
| PCB-1254 | 20 | N.D. |
| PCB-1260 | 20 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|--------------------|------------------|------------|
| Dibutylchlorendate | 30 150 | 114 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: SSW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/14/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8100 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-04 | Reported: 03/20/95 |

QC Batch Number: GC0309958100EXB
 Instrument ID: GCHP11

Polynuclear Aromatic Hydrocarbons (EPA 8100)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| Phenanthrene | 250 | N.D. |
| Pyrene | 250 | N.D. |
| Surrogates | Control Limits % | % Recovery |
| 2-Fluorobiphenyl | 50 150 | 71 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: SSW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8240 | Analyzed: 03/13/95 |
| | Lab Number: 9503630-04 | Reported: 03/20/95 |

QC Batch Number: MS0308958240EXA
 Instrument ID: F3

Volatile Organics (EPA 8240)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------------|--------------------------|-------------------------|
| Acetone | 500 | N.D. |
| Benzene | 100 | N.D. |
| Bromodichloromethane | 100 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| 2-Butanone | 500 | N.D. |
| Carbon disulfide | 100 | N.D. |
| Carbon tetrachloride | 100 | N.D. |
| Chlorobenzene | 100 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethyl vinyl ether | 500 | N.D. |
| Chloroform | 100 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 100 | N.D. |
| 1,1-Dichloroethane | 100 | N.D. |
| 1,2-Dichloroethane | 100 | N.D. |
| 1,1-Dichloroethene | 100 | N.D. |
| cis-1,2-Dichloroethene | 100 | N.D. |
| trans-1,2-Dichloroethene | 100 | N.D. |
| 1,2-Dichloropropane | 100 | N.D. |
| cis-1,3-Dichloropropene | 100 | N.D. |
| trans-1,3-Dichloropropene | 100 | N.D. |
| Ethylbenzene | 100 | N.D. |
| 2-Hexanone | 500 | N.D. |
| Methylene chloride | 250 | N.D. |
| 4-Methyl-2-pentanone | 500 | N.D. |
| Styrene | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 100 | N.D. |
| Tetrachloroethene | 100 | N.D. |
| Toluene | 100 | N.D. |
| 1,1,1-Trichloroethane | 100 | N.D. |
| 1,1,2-Trichloroethane | 100 | N.D. |
| Trichloroethene | 100 | N.D. |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl acetate | 100 | N.D. |



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 |

| | | |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okln Sample Descript: SSW-7.0 Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9503630-04 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/13/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

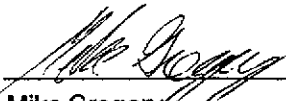
QC Batch Number: MS0308958240EXA
Instrument ID: F3

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------|--------------------------|-------------------------|
| Vinyl chloride | 100 | N.D. |
| Total Xylenes | 100 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|-----------------------|------------------|-----|------------|
| 1,2-Dichloroethane-d4 | 70 | 121 | 90 |
| Toluene-d8 | 81 | 117 | 101 |
| 4-Bromofluorobenzene | 74 | 121 | 101 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: SSW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-04 | Reported: 03/20/95 |

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

Semivolatile Organics (EPA 8270)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|-----------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzoic Acid | 500 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzyl alcohol | 250 | N.D. |
| Bis(2-chloroethoxy)methane | 250 | N.D. |
| Bis(2-chloroethyl)ether | 250 | N.D. |
| Bis(2-chloroisopropyl)ether | 250 | N.D. |
| Bis(2-ethylhexyl)phthalate | 500 | N.D. |
| 4-Bromophenyl phenyl ether | 250 | N.D. |
| Butyl benzyl phthalate | 250 | N.D. |
| 4-Chloroaniline | 500 | N.D. |
| 2-Chloronaphthalene | 250 | N.D. |
| 4-Chloro-3-methylphenol | 250 | N.D. |
| 2-Chlorophenol | 250 | N.D. |
| 4-Chlorophenyl phenyl ether | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Dibenzofuran | 250 | N.D. |
| Di-n-butyl phthalate | 500 | N.D. |
| 1,2-Dichlorobenzene | 250 | N.D. |
| 1,3-Dichlorobenzene | 250 | N.D. |
| 1,4-Dichlorobenzene | 250 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. |
| 2,4-Dichlorophenol | 250 | N.D. |
| Diethyl phthalate | 250 | N.D. |
| 2,4-Dimethylphenol | 250 | N.D. |
| Dimethyl phthalate | 250 | N.D. |
| 4,6-Dinitro-2-methylphenol | 500 | N.D. |
| 2,4-Dinitrophenol | 500 | N.D. |



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

| | | |
|--------------------------|----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okln | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: SSW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| Attention: Tim Utterback | Lab Number: 9503630-04 | Reported: 03/20/95 |

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------------------|--------------------------|-------------------------|
| 2,4-Dinitrotoluene | 250 | N.D. |
| 2,6-Dinitrotoluene | 250 | N.D. |
| Di-n-octyl phthalate | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Hexachlorobenzene | 250 | N.D. |
| Hexachlorobutadiene | 250 | N.D. |
| Hexachlorocyclopentadiene | 500 | N.D. |
| Hexachloroethane | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Isophorone | 250 | N.D. |
| 2-Methylnaphthalene | 250 | N.D. |
| 2-Methylphenol | 250 | N.D. |
| 4-Methylphenol | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| 2-Nitroaniline | 500 | N.D. |
| 3-Nitroaniline | 500 | N.D. |
| 4-Nitroaniline | 500 | N.D. |
| Nitrobenzene | 250 | N.D. |
| 2-Nitrophenol | 250 | N.D. |
| 4-Nitrophenol | 500 | N.D. |
| N-Nitrosodiphenylamine | 250 | N.D. |
| N-Nitroso-di-n-propylamine | 250 | N.D. |
| Pentachlorophenol | 500 | N.D. |
| Phenanthrene | 250 | N.D. |
| Phenol | 250 | N.D. |
| Pyrene | 250 | N.D. |
| 1,2,4-Trichlorobenzene | 250 | N.D. |
| 2,4,5-Trichlorophenol | 500 | N.D. |
| 2,4,6-Trichlorophenol | 250 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|----------------------|------------------|-----|------------|
| 2-Fluorophenol | 25 | 121 | 67 |
| Phenol-d5 | 24 | 113 | 78 |
| Nitrobenzene-d5 | 23 | 120 | 77 |
| 2-Fluorobiphenyl | 30 | 115 | 80 |
| 2,4,6-Tribromophenol | 19 | 122 | 52 |
| p-Terphenyl-d14 | 18 | 137 | 91 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: SSW-7.0 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-04 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/15/95 Reported: 03/20/95 |
| Attention: Tim Utterback | | |

Instrument ID: H5

Semivolatile Tentatively Identified Compounds

| Analyte | Detection Limit ug/Kg * | Sample Results ug/Kg * |
|----------|----------------------------|---------------------------|
| CREOSOTE | 17000 | N.D. |

Please Note:
All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA NIST library.
Positive identification or specification between isomers cannot be made without retention time standards.
* Estimated

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: SSW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8015 Mod | Analyzed: 03/16/95 |
| | Lab Number: 9503630-04 | Reported: 03/20/95 |

QC Batch Number: GC0313950HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------------------------|--------------------------|-------------------------|
| TEPH as Diesel Chromatogram Pattern: | 1.0 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|---------------------|-----------------------------|------------|
| n-Pentacosane (C25) | 50 150 | 98 |

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

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager



| | | |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: SSW-7.0 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9503630-04 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/12/95 Analyzed: 03/14/95 Reported: 03/20/95 |
| Attention: Tim Utterback | | |

QC Batch Number: GC031295BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------|--------------------------|-------------------------|
| TPPH as Gas | 1.0 | N.D. |
| Benzene | 0.0050 | N.D. |
| Toluene | 0.0050 | 0.19 |
| Ethyl Benzene | 0.0050 | N.D. |
| Xylenes (Total) | 0.0050 | N.D. |
| Chromatogram Pattern: | | C7 |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 130 | 123 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: ESW-7.0 Matrix: SOLID Analysis Method: EPA 8080 Lab Number: 9503630-05 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/14/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC0309958080EXA
 Instrument ID: GCHP10

Organochlorine Pesticides and PCBs (EPA 8080)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------|--------------------------|-------------------------|
| Aldrin | 1.0 | N.D. |
| alpha-BHC | 1.0 | N.D. |
| beta-BHC | 1.0 | N.D. |
| delta-BHC | 1.0 | N.D. |
| gamma-BHC (Lindane) | 1.0 | N.D. |
| Chlordane | 20 | N.D. |
| 4,4'-DDD | 6.0 | N.D. |
| 4,4'-DDE | 2.0 | N.D. |
| 4,4'-DDT | 6.0 | N.D. |
| Dieldrin | 2.0 | N.D. |
| Endosulfan I | 2.0 | N.D. |
| Endosulfan II | 2.0 | N.D. |
| Endosulfan sulfate | 6.0 | N.D. |
| Endrin | 2.0 | N.D. |
| Endrin aldehyde | 6.0 | N.D. |
| Heptachlor | 1.0 | N.D. |
| Heptachlor epoxide | 1.0 | N.D. |
| Methoxychlor | 20 | N.D. |
| Toxaphene | 80 | N.D. |
| PCB-1016 | 20 | N.D. |
| PCB-1221 | 80 | N.D. |
| PCB-1232 | 20 | N.D. |
| PCB-1242 | 20 | N.D. |
| PCB-1248 | 20 | N.D. |
| PCB-1254 | 20 | N.D. |
| PCB-1260 | 20 | N.D. |

| | | |
|---------------------|-------------------------|-------------------|
| Surrogates | Control Limits % | % Recovery |
| Dibutylchloroendate | 30 150 | 95 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: ESW-7.0 Matrix: SOLID Analysis Method: EPA 8100 Lab Number: 9503630-05 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/14/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC0309958100EXB
Instrument ID: GCHP11

Polynuclear Aromatic Hydrocarbons (EPA 8100)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|------------------------|-------------------------------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| Phenanthrene | 250 | N.D. |
| Pyrene | 250 | N.D. |
| Surrogates | | |
| 2-Fluorobiphenyl | Control Limits % 50 150 | % Recovery 72 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|--------------------------|----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okln | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: ESW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8240 | Analyzed: 03/13/95 |
| | Lab Number: 9503630-05 | Reported: 03/20/95 |

QC Batch Number: MS0308958240EXA
 Instrument ID: F3

Volatile Organics (EPA 8240)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------------|--------------------------|-------------------------|
| Acetone | 500 | N.D. |
| Benzene | 100 | N.D. |
| Bromodichloromethane | 100 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| 2-Butanone | 500 | N.D. |
| Carbon disulfide | 100 | N.D. |
| Carbon tetrachloride | 100 | N.D. |
| Chlorobenzene | 100 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethyl vinyl ether | 500 | N.D. |
| Chloroform | 100 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 100 | N.D. |
| 1,1-Dichloroethane | 100 | N.D. |
| 1,2-Dichloroethane | 100 | N.D. |
| 1,1-Dichloroethene | 100 | N.D. |
| cis-1,2-Dichloroethene | 100 | N.D. |
| trans-1,2-Dichloroethene | 100 | N.D. |
| 1,2-Dichloropropane | 100 | N.D. |
| cis-1,3-Dichloropropene | 100 | N.D. |
| trans-1,3-Dichloropropene | 100 | N.D. |
| Ethylbenzene | 100 | N.D. |
| 2-Hexanone | 500 | N.D. |
| Methylene chloride | 250 | N.D. |
| 4-Methyl-2-pentanone | 500 | N.D. |
| Styrene | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 100 | N.D. |
| Tetrachloroethene | 100 | N.D. |
| Toluene | 100 | 290 |
| 1,1,1-Trichloroethane | 100 | N.D. |
| 1,1,2-Trichloroethane | 100 | N.D. |
| Trichloroethene | 100 | N.D. |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl acetate | 100 | N.D. |



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 |

| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: ESW-7.0 Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9503630-05 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/13/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0308958240EXA
Instrument ID: F3

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------|--------------------------|-------------------------|
| Vinyl chloride | 100 | N.D. |
| Total Xylenes | 100 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|-----------------------|------------------|-----|------------|
| 1,2-Dichloroethane-d4 | 70 | 121 | 92 |
| Toluene-d8 | 81 | 117 | 104 |
| 4-Bromofluorobenzene | 74 | 121 | 104 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: ESW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-05 | Reported: 03/20/95 |

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

Semivolatile Organics (EPA 8270)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|-----------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzoic Acid | 500 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzyl alcohol | 250 | N.D. |
| Bis(2-chloroethoxy)methane | 250 | N.D. |
| Bis(2-chloroethyl)ether | 250 | N.D. |
| Bis(2-chloroisopropyl)ether | 250 | N.D. |
| Bis(2-ethylhexyl)phthalate | 500 | N.D. |
| 4-Bromophenyl phenyl ether | 250 | N.D. |
| Butyl benzyl phthalate | 250 | N.D. |
| 4-Chloroaniline | 500 | N.D. |
| 2-Chloronaphthalene | 250 | N.D. |
| 4-Chloro-3-methylphenol | 250 | N.D. |
| 2-Chlorophenol | 250 | N.D. |
| 4-Chlorophenyl phenyl ether | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Dibenzofuran | 250 | N.D. |
| Di-n-butyl phthalate | 500 | N.D. |
| 1,2-Dichlorobenzene | 250 | N.D. |
| 1,3-Dichlorobenzene | 250 | N.D. |
| 1,4-Dichlorobenzene | 250 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. |
| 2,4-Dichlorophenol | 250 | N.D. |
| Diethyl phthalate | 250 | N.D. |
| 2,4-Dimethylphenol | 250 | N.D. |
| Dimethyl phthalate | 250 | N.D. |
| 4,6-Dinitro-2-methylphenol | 500 | N.D. |
| 2,4-Dinitrophenol | 500 | N.D. |



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| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, OkInd Sample Descript: ESW-7.0 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-05 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0311958270EXA
Instrument ID: H5

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------------------|--------------------------|-------------------------|
| 2,4-Dinitrotoluene | 250 | N.D. |
| 2,6-Dinitrotoluene | 250 | N.D. |
| Di-n-octyl phthalate | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Hexachlorobenzene | 250 | N.D. |
| Hexachlorobutadiene | 250 | N.D. |
| Hexachlorocyclopentadiene | 500 | N.D. |
| Hexachloroethane | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Isophorone | 250 | N.D. |
| 2-Methylnaphthalene | 250 | N.D. |
| 2-Methylphenol | 250 | N.D. |
| 4-Methylphenol | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| 2-Nitroaniline | 500 | N.D. |
| 3-Nitroaniline | 500 | N.D. |
| 4-Nitroaniline | 500 | N.D. |
| Nitrobenzene | 250 | N.D. |
| 2-Nitrophenol | 250 | N.D. |
| 4-Nitrophenol | 500 | N.D. |
| N-Nitrosodiphenylamine | 250 | N.D. |
| N-Nitroso-di-n-propylamine | 250 | N.D. |
| Pentachlorophenol | 500 | N.D. |
| Phenanthrene | 250 | N.D. |
| Phenol | 250 | N.D. |
| Pyrene | 250 | N.D. |
| 1,2,4-Trichlorobenzene | 250 | N.D. |
| 2,4,5-Trichlorophenol | 500 | N.D. |
| 2,4,6-Trichlorophenol | 250 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|----------------------|------------------|-----|------------|
| 2-Fluorophenol | 25 | 121 | 63 |
| Phenol-d5 | 24 | 113 | 77 |
| Nitrobenzene-d5 | 23 | 120 | 78 |
| 2-Fluorobiphenyl | 30 | 115 | 81 |
| 2,4,6-Tribromophenol | 19 | 122 | 49 |
| p-Terphenyl-d14 | 18 | 137 | 93 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: ESW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-05 | Reported: 03/20/95 |

Instrument ID: H5

Semivolatile Tentatively Identified Compounds

| Analyte | Detection Limit * ug/Kg | Sample Results * ug/Kg |
|----------|----------------------------|---------------------------|
| CREOSOTE | 17000 | N.D. |

Please Note:
 All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA NIST library.
 Positive identification or specification between isomers cannot be made without retention time standards.
 * Estimated

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager



Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 9570 Golf Links, OkInd
Sample Descript: ESW-7.0
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9503630-05

Sampled: 03/08/95
Received: 03/08/95
Extracted: 03/14/95
Analyzed: 03/16/95
Reported: 03/20/95

QC Batch Number: GC0313950HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------------------------|--------------------------|-------------------------|
| TEPH as Diesel Chromatogram Pattern: | 1.0 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|---------------------|------------------|------------|
| n-Pentacosane (C25) | 50 150 | 100 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: ESW-7.0 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/12/95 |
| Attention: Tim Utterback | Analysis Method: 8015Mod/8020 | Analyzed: 03/14/95 |
| | Lab Number: 9503630-05 | Reported: 03/20/95 |

QC Batch Number: GC031295BTEXEXB
 Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|------------------------------|--------------------------|-------------------------|
| TPPH as Gas | 1.0 | N.D. |
| Benzene | 0.0050 | N.D. |
| Toluene | 0.0050 | 0.18 |
| Ethyl Benzene | 0.0050 | N.D. |
| Xylenes (Total) | 0.0050 | N.D. |
| Chromatogram Pattern: | | C7 |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 130 | 105 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okln | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WSW-7.75 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/13/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8080 | Analyzed: 03/14/95 |
| | Lab Number: 9503630-06 | Reported: 03/20/95 |

QC Batch Number: GC0309958080EXA
 Instrument ID: GCHP10


Organochlorine Pesticides and PCBs (EPA 8080)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------|--------------------------|-------------------------|
| Aldrin | 1.0 | N.D. |
| alpha-BHC | 1.0 | N.D. |
| beta-BHC | 1.0 | N.D. |
| delta-BHC | 1.0 | N.D. |
| gamma-BHC (Lindane) | 1.0 | N.D. |
| Chlordane | 20 | N.D. |
| 4,4'-DDD | 6.0 | N.D. |
| 4,4'-DDE | 2.0 | N.D. |
| 4,4'-DDT | 6.0 | N.D. |
| Dieldrin | 2.0 | N.D. |
| Endosulfan I | 2.0 | N.D. |
| Endosulfan II | 2.0 | N.D. |
| Endosulfan sulfate | 6.0 | N.D. |
| Endrin | 2.0 | N.D. |
| Endrin aldehyde | 6.0 | N.D. |
| Heptachlor | 1.0 | N.D. |
| Heptachlor epoxide | 1.0 | N.D. |
| Methoxychlor | 20 | N.D. |
| Toxaphene | 80 | N.D. |
| PCB-1016 | 20 | N.D. |
| PCB-1221 | 80 | N.D. |
| PCB-1232 | 20 | N.D. |
| PCB-1242 | 20 | N.D. |
| PCB-1248 | 20 | N.D. |
| PCB-1254 | 20 | N.D. |
| PCB-1260 | 20 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|-------------------|------------------|------------|
| Dibutylchlorodate | 30 150 | 91 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WSW-7.75 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/14/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8100 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-06 | Reported: 03/20/95 |

QC Batch Number: GC0309958100EXB
 Instrument ID: GCHP11

Polynuclear Aromatic Hydrocarbons (EPA 8100)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| Phenanthrene | 250 | N.D. |
| Pyrene | 250 | N.D. |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| 2-Fluorobiphenyl | 50 150 | 66 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 9570 Golf Links, Okln
Sample Descript: WSW-7.75
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9503630-06

Sampled: 03/08/95
Received: 03/08/95
Extracted: 03/13/95
Analyzed: 03/13/95
Reported: 03/20/95

QC Batch Number: MS0308958240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|---------------------------|--------------------------|-------------------------|
| Acetone | 500 | N.D. |
| Benzene | 100 | N.D. |
| Bromodichloromethane | 100 | N.D. |
| Bromoform | 100 | N.D. |
| Bromomethane | 100 | N.D. |
| 2-Butanone | 500 | N.D. |
| Carbon disulfide | 100 | N.D. |
| Carbon tetrachloride | 100 | N.D. |
| Chlorobenzene | 100 | N.D. |
| Chloroethane | 100 | N.D. |
| 2-Chloroethyl vinyl ether | 500 | N.D. |
| Chloroform | 100 | N.D. |
| Chloromethane | 100 | N.D. |
| Dibromochloromethane | 100 | N.D. |
| 1,1-Dichloroethane | 100 | N.D. |
| 1,2-Dichloroethane | 100 | N.D. |
| 1,1-Dichloroethene | 100 | N.D. |
| cis-1,2-Dichloroethene | 100 | N.D. |
| trans-1,2-Dichloroethene | 100 | N.D. |
| 1,2-Dichloropropane | 100 | N.D. |
| cis-1,3-Dichloropropene | 100 | N.D. |
| trans-1,3-Dichloropropene | 100 | N.D. |
| Ethylbenzene | 100 | N.D. |
| 2-Hexanone | 500 | N.D. |
| Methylene chloride | 250 | N.D. |
| 4-Methyl-2-pentanone | 500 | N.D. |
| Styrene | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane | 100 | N.D. |
| Tetrachloroethene | 100 | N.D. |
| Toluene | 100 | N.D. |
| 1,1,1-Trichloroethane | 100 | N.D. |
| 1,1,2-Trichloroethane | 100 | N.D. |
| Trichloroethene | 100 | N.D. |
| Trichlorofluoromethane | 100 | N.D. |
| Vinyl acetate | 100 | N.D. |



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| | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okln Sample Descript: WSW-7.75 Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9503630-06 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/13/95 Analyzed: 03/13/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0308958240EXA
 Instrument ID: F3

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------|--------------------------|-------------------------|
| Vinyl chloride | 100 | N.D. |
| Total Xylenes | 100 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|-----------------------|------------------|-----|------------|
| 1,2-Dichloroethane-d4 | 70 | 121 | 90 |
| Toluene-d8 | 81 | 117 | 102 |
| 4-Bromofluorobenzene | 74 | 121 | 99 |

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

SEQUOIA ANALYTICAL - ELAP #1210


 Mike Gregory
 Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, OkInd | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WSW-7.75 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-06 | Reported: 03/20/95 |

QC Batch Number: MS0311958270EXA
 Instrument ID: H5

Semivolatile Organics (EPA 8270)

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|-----------------------------|--------------------------|-------------------------|
| Acenaphthene | 250 | N.D. |
| Acenaphthylene | 250 | N.D. |
| Anthracene | 250 | N.D. |
| Benzoic Acid | 500 | N.D. |
| Benzo(a)anthracene | 250 | N.D. |
| Benzo(b)fluoranthene | 250 | N.D. |
| Benzo(k)fluoranthene | 250 | N.D. |
| Benzo(g,h,i)perylene | 250 | N.D. |
| Benzo(a)pyrene | 250 | N.D. |
| Benzyl alcohol | 250 | N.D. |
| Bis(2-chloroethoxy)methane | 250 | N.D. |
| Bis(2-chloroethyl)ether | 250 | N.D. |
| Bis(2-chloroisopropyl)ether | 250 | N.D. |
| Bis(2-ethylhexyl)phthalate | 500 | N.D. |
| 4-Bromophenyl phenyl ether | 250 | N.D. |
| Butyl benzyl phthalate | 250 | N.D. |
| 4-Chloroaniline | 500 | N.D. |
| 2-Chloronaphthalene | 250 | N.D. |
| 4-Chloro-3-methylphenol | 250 | N.D. |
| 2-Chlorophenol | 250 | N.D. |
| 4-Chlorophenyl phenyl ether | 250 | N.D. |
| Chrysene | 250 | N.D. |
| Dibenzo(a,h)anthracene | 250 | N.D. |
| Dibenzofuran | 250 | N.D. |
| Di-n-butyl phthalate | 500 | N.D. |
| 1,2-Dichlorobenzene | 250 | N.D. |
| 1,3-Dichlorobenzene | 250 | N.D. |
| 1,4-Dichlorobenzene | 250 | N.D. |
| 3,3-Dichlorobenzidine | 500 | N.D. |
| 2,4-Dichlorophenol | 250 | N.D. |
| Diethyl phthalate | 250 | N.D. |
| 2,4-Dimethylphenol | 250 | N.D. |
| Dimethyl phthalate | 250 | N.D. |
| 4,6-Dinitro-2-methylphenol | 500 | N.D. |
| 2,4-Dinitrophenol | 500 | N.D. |



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| | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WSW-7.75 Matrix: SOLID Analysis Method: EPA 8270 Lab Number: 9503630-06 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/11/95 Analyzed: 03/15/95 Reported: 03/20/95 |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: MS0311958270EXA
Instrument ID: H5

| Analyte | Detection Limit ug/Kg | Sample Results ug/Kg |
|----------------------------|--------------------------|-------------------------|
| 2,4-Dinitrotoluene | 250 | N.D. |
| 2,6-Dinitrotoluene | 250 | N.D. |
| Di-n-octyl phthalate | 250 | N.D. |
| Fluoranthene | 250 | N.D. |
| Fluorene | 250 | N.D. |
| Hexachlorobenzene | 250 | N.D. |
| Hexachlorobutadiene | 250 | N.D. |
| Hexachlorocyclopentadiene | 500 | N.D. |
| Hexachloroethane | 250 | N.D. |
| Indeno(1,2,3-cd)pyrene | 250 | N.D. |
| Isophorone | 250 | N.D. |
| 2-Methylnaphthalene | 250 | N.D. |
| 2-Methylphenol | 250 | N.D. |
| 4-Methylphenol | 250 | N.D. |
| Naphthalene | 250 | N.D. |
| 2-Nitroaniline | 500 | N.D. |
| 3-Nitroaniline | 500 | N.D. |
| 4-Nitroaniline | 500 | N.D. |
| Nitrobenzene | 250 | N.D. |
| 2-Nitrophenol | 250 | N.D. |
| 4-Nitrophenol | 500 | N.D. |
| N-Nitrosodiphenylamine | 250 | N.D. |
| N-Nitroso-di-n-propylamine | 250 | N.D. |
| Pentachlorophenol | 500 | N.D. |
| Phenanthrene | 250 | N.D. |
| Phenol | 250 | N.D. |
| Pyrene | 250 | N.D. |
| 1,2,4-Trichlorobenzene | 250 | N.D. |
| 2,4,5-Trichlorophenol | 500 | N.D. |
| 2,4,6-Trichlorophenol | 250 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|----------------------|------------------|-----|------------|
| 2-Fluorophenol | 25 | 121 | 65 |
| Phenol-d5 | 24 | 113 | 77 |
| Nitrobenzene-d5 | 23 | 120 | 76 |
| 2-Fluorobiphenyl | 30 | 115 | 81 |
| 2,4,6-Tribromophenol | 19 | 122 | 56 |
| p-Terphenyl-d14 | 18 | 137 | 94 |

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WSW-7.75 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/11/95 |
| Attention: Tim Utterback | Analysis Method: EPA 8270 | Analyzed: 03/15/95 |
| | Lab Number: 9503630-06 | Reported: 03/20/95 |

Instrument ID: H5

Semivolatile Tentatively Identified Compounds

| Analyte | Detection Limit ug/Kg * | Sample Results ug/Kg * |
|----------|----------------------------|---------------------------|
| CREOSOTE | 17000 | N.D. |

Please Note:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA NIST library. Positive identification or specification between isomers cannot be made without retention time standards.

* Estimated

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager



| | | |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Proj. ID: Shell 9570 Golf Links, Okind Sample Descript: WSW-7.75 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9503630-06 | Sampled: 03/08/95 Received: 03/08/95 Extracted: 03/14/95 Analyzed: 03/16/95 Reported: 03/20/95 |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

QC Batch Number: GC0313950HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------------------------|--------------------------|-------------------------|
| TEPH as Diesel Chromatogram Pattern: | 1.0 | N.D. |

| Surrogates | Control Limits % | | % Recovery |
|---------------------|------------------|-----|------------|
| n-Pentacosane (C25) | 50 | 150 | 94 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



| | | |
|--------------------------|-----------------------------------------------|---------------------|
| Weiss Associates | Client Proj. ID: Shell 9570 Golf Links, Okind | Sampled: 03/08/95 |
| 5500 Shellmound | Sample Descript: WSW-7.75 | Received: 03/08/95 |
| Emeryville, CA 94608 | Matrix: SOLID | Extracted: 03/12/95 |
| Attention: Tim Utterback | Analysis Method: 8015Mod/8020 | Analyzed: 03/14/95 |
| | Lab Number: 9503630-06 | Reported: 03/20/95 |

QC Batch Number: GC031295BTEXEXB
Instrument ID: GCHP01

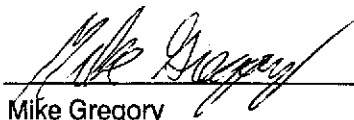
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

| Analyte | Detection Limit mg/Kg | Sample Results mg/Kg |
|-----------------------|--------------------------|-------------------------|
| TPPH as Gas | 1.0 | N.D. |
| Benzene | 0.0050 | N.D. |
| Toluene | 0.0050 | 0.083 |
| Ethyl Benzene | 0.0050 | N.D. |
| Xylenes (Total) | 0.0050 | N.D. |
| Chromatogram Pattern: | | C7 |

| Surrogates | Control Limits % | % Recovery |
|------------------|------------------|------------|
| Trifluorotoluene | 70 130 | 123 |

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager



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Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

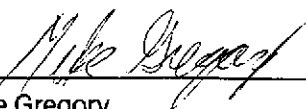
Client Proj. ID: Shell 9570 Golf Links, Okln
Lab Proj. ID: 9503630

Received: 03/08/95
Reported: 03/20/95

LABORATORY NARRATIVE

OQ - Surrogate diluted out.

SEQUOIA ANALYTICAL


Mike Gregory
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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

Client Project ID: Shell 9570 Golf Links, Oakland
Matrix: Solid

Work Order #: 9503630 -01 - 06

Reported: Mar 20, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | 1,1-Dichloroethene | Trichloroethene | Benzene | Toluene | Chloro-benzene |
|----------------|--------------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | MS0308958240EX4 | MS0308958240EX4 | MS0308958240EX4 | MS0308958240EX4 | MS0308958240EX4 |
| Analy. Method: | EPA 8240 | EPA 8240 | EPA 8240 | EPA 8240 | EPA 8240 |
| Prep. Method: | - | - | - | - | - |

| | | | | | |
|-------------------|------------|------------|------------|------------|------------|
| Analyst: | B.Pitamah | B.Pitamah | B.Pitamah | B.Pitamah | B.Pitamah |
| MS/MSD #: | 950317608 | 950317608 | 950317608 | 950317608 | 950317608 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 |
| Analyzed Date: | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 |
| Instrument I.D.#: | F3 | F3 | F3 | F3 | F3 |
| Conc. Spiked: | 2500 ug/kg | 2500 ug/kg | 2500 ug/kg | 2500 ug/kg | 2500 ug/kg |
| Result: | 2000 | 2500 | 2400 | 2500 | 2500 |
| MS % Recovery: | 80 | 100 | 96 | 100 | 100 |
| Dup. Result: | 2200 | 2600 | 2600 | 2700 | 2700 |
| MSD % Recov.: | 88 | 104 | 104 | 108 | 108 |
| RPD: | 9.5 | 3.9 | 8.0 | 7.7 | 7.7 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

| MS/MSD LCS Control Limits | DL-234 | 71-157 | 37-151 | 47-150 | 37-160 |
|---------------------------------|--------|--------|--------|--------|--------|
| | | | | | |

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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

9503630.WAA <2>



| | | | |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------|
| Weiss & Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Project ID: Shell 9570 Golf Links, Oakland Matrix: Solid | Work Order #: 9503630 -01 - 06 | Reported: Mar 20, 1995 |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------|

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|-----------------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC031295BTEXEXB | GC031295BTEXEXB | GC031295BTEXEXB | GC031295BTEXEXB |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | |
|--------------------------|------------|------------|------------|------------|
| Analyst: | R.Geckler | R.Geckler | R.Geckler | R.Geckler |
| MS/MSD #: | 950314110 | 950314110 | 950314110 | 950314110 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/12/95 | 3/12/95 | 3/12/95 | 3/12/95 |
| Analyzed Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Instrument I.D.#: | GCHP1 | GCHP1 | GCHP1 | GCHP1 |
| Conc. Spiked: | 0.20 mg/kg | 0.20 mg/kg | 0.20 mg/kg | 0.60 mg/kg |
| Result: | 0.18 | 0.18 | 0.19 | 0.56 |
| MS % Recovery: | 90 | 90 | 95 | 93 |
| Dup. Result: | 0.20 | 0.21 | 0.21 | 0.63 |
| MSD % Recov.: | 100 | 105 | 105 | 105 |
| RPD: | 11 | 15 | 10 | 12 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

| MS/MSD LCS Control Limits | 55-145 | 47-149 | 47-155 | 56-140 |
|---------------------------------|--------|--------|--------|--------|
|---------------------------------|--------|--------|--------|--------|

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SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager



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| | | | |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------|
| Weiss & Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Project ID: Shell 9570 Golf Links, Oakland Matrix: Solid | Work Order #: 9503630 -01 - 06 | Reported: Mar 20, 1995 |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------|-------------------------------|

QUALITY CONTROL DATA REPORT

| Analyte: | Naphthalene | Acenaphthene | Pyrene |
|--------------------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC0309958100EXB | GC0309958100EXB | GC0309958100EXB |
| Analy. Method: | EPA 8100 | EPA 8100 | EPA 8100 |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 |
| Analyst: | L.Haar | L.Haar | L.Haar |
| MS/MSD #: | BLK030995 | BLK030995 | BLK030995 |
| Sample Conc.: | N.D. | N.D. | N.D. |
| Prepared Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Analyzed Date: | 3/10/95 | 3/10/95 | 3/10/95 |
| Instrument I.D.#: | GCHP11 | GCHP11 | GCHP11 |
| Conc. Spiked: | 50 mg/kg | 50 mg/kg | 50 mg/kg |
| Result: | 37 | 36 | 39 |
| MS % Recovery: | 74 | 72 | 78 |
| Dup. Result: | 35 | 34 | 38 |
| MSD % Recov.: | 70 | 68 | 76 |
| RPD: | 5.6 | 5.7 | 2.6 |
| RPD Limit: | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

| MS/MSD LCS Control Limits | DL-124 | DL-124 | DL-140 |
|---------------------------------|--------|--------|--------|
|---------------------------------|--------|--------|--------|

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SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9503630.WAA <4>



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Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

Client Project ID: Shell 9570 Golf Links, Oakland
Matrix: Solid

Work Order #: 9503630 -01 - 06

Reported: Mar 20, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Heptachlor | Aldrin | Dieldrin | Total Oil & Grease |
|----------------|-----------------|-----------------|-----------------|--------------------|
| QC Batch#: | GC0309958080EXA | GC0309958080EXA | GC0309958080EXA | OP0306955520EXA |
| Analy. Method: | EPA 8080 | EPA 8080 | EPA 8080 | SM 5520E |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 | EPA 3550 |

| | | | | |
|-------------------|-----------|-----------|-----------|------------|
| Analyst: | L.Haar | L.Haar | L.Haar | C.Garde |
| MS/MSD #: | 950344604 | 950344604 | 950344604 | BLK030695 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/9/95 | 3/9/95 | 3/9/95 | 3/6/95 |
| Analyzed Date: | 3/9/95 | 3/9/95 | 3/9/95 | 3/7/95 |
| Instrument I.D.#: | GCHP10 | GCHP10 | GCHP10 | MANUAL |
| Conc. Spiked: | 3.3 ug/kg | 3.3 ug/kg | 3.3 ug/kg | 1000 mg/kg |
| Result: | * | * | * | 1100 |
| MS % Recovery: | * | * | * | 110 |
| Dup. Result: | * | * | * | 1100 |
| MSD % Recov.: | * | * | * | 110 |
| RPD: | * | * | * | 0.0 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

| LCS #: | BLK030995 | BLK030995 | BLK030995 |
|-------------------|-----------|-----------|-----------|
| Prepared Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Analyzed Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Instrument I.D.#: | GCHP10 | GCHP10 | GCHP10 |
| Conc. Spiked: | 3.3 ug/kg | 3.3 ug/kg | 13 ug/kg |
| LCS Result: | 3.3 | 3.2 | 15 |
| LCS % Recov.: | 100 | 97 | 115 |

| MS/MSD LCS Control Limits | 39-137 | 47-139 | 62-132 | 70-110 |
|---------------------------|--------|--------|--------|--------|
| | | | | |

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SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9503630.WAA <5>



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Weiss & Associates
 5500 Shellmound
 Emeryville, CA 94608
 Attention: Tim Utterback

Client Project ID: Shell 9570 Golf Links, Oakland
 Matrix: Solid

Work Order #: 9503630 -01 - 06

Reported: Mar 20, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Beryllium | Cadmium | Chromium | Nickel |
|----------------|-----------------|-----------------|-----------------|-----------------|
| QC Batch#: | ME0314956010MDC | ME0314956010MDC | ME0314956010MDC | ME0314956010MDC |
| Analy. Method: | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 |
| Prep. Method: | EPA 3050 | EPA 3050 | EPA 3050 | EPA 3050 |

| | | | | |
|-------------------|-------------|-------------|-------------|-------------|
| Analyst: | S.O'Donnell | S.O'Donnell | S.O'Donnell | S.O'Donnell |
| MS/MSD #: | 9503630-01 | 9503630-01 | 9503630-01 | 9503630-01 |
| Sample Conc.: | 0.50 | N.D. | 49 | 39 |
| Prepared Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Analyzed Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Instrument I.D.#: | MTJA2 | MTJA2 | MTJA2 | MTJA2 |
| Conc. Spiked: | 100 mg/kg | 100 mg/kg | 100 mg/kg | 100 mg/kg |
| Result: | 100 | 95 | 150 | 140 |
| MS % Recovery: | 99 | 95 | 101 | 101 |
| Dup. Result: | 100 | 96 | 150 | 140 |
| MSD % Recov.: | 99 | 96 | 101 | 101 |
| RPD: | 0.0 | 1.0 | 0.0 | 0.0 |
| RPD Limit: | 0-30 | 0-30 | 0-30 | 0-30 |

| LCS #: | BLK031495 | BLK031495 | BLK031495 | BLK031495 |
|-------------------|-----------|-----------|-----------|-----------|
| Prepared Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Analyzed Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Instrument I.D.#: | MTJA2 | MTJA2 | MTJA2 | MTJA2 |
| Conc. Spiked: | 100 mg/kg | 100 mg/kg | 100 mg/kg | 100 mg/kg |
| LCS Result: | 100 | 99 | 110 | 100 |
| LCS % Recov.: | 100 | 99 | 110 | 100 |

| | | | | |
|----------------|--------|--------|--------|--------|
| MS/MSD | 75-125 | 75-125 | 75-125 | 75-125 |
| LCS | 75-125 | 75-125 | 75-125 | 75-125 |
| Control Limits | | | | |

Please Note:

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SEQUOIA ANALYTICAL

Mike Gregory
 Mike Gregory
 Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9503630.WAA <6>



Weiss & Associates Client Project ID: Shell 9570 Golf Links, Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Tim Utterback Work Order #: 9503630 -01 - 06 Reported: Mar 20, 1995

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: C0313950HBPTXEA
Analy. Method: EPA 8015 M
Prep. Method: EPA 3550

Analyst: B.Ali
MS/MSD #: 9503739-05
Sample Conc.: 1.7
Prepared Date: 3/13/95
Analyzed Date: 3/14/95
Instrument I.D.#: GCHP4B
Conc. Spiked: 15 mg/kg

Result: 7.4
MS % Recovery: 38

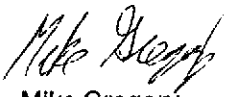
Dup. Result: 7.1
MSD % Recov.: 36

RPD: 4.1
RPD Limit: 0-50

LCS #: BLK031395
Prepared Date: 3/13/95
Analyzed Date: 3/14/95
Instrument I.D.#: GCHP4B
Conc. Spiked: 15 mg/kg
LCS Result: 8.4
LCS % Recov.: 56

MS/MSD
LCS 38-122
Control Limits

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SEQUOIA ANALYTICAL

 Mike Gregory
 Project Manager



Weiss & Associates Client Project ID: Shell 9570 Golf Links, Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Tim Utterback Work Order #: 9503630 -01 -06 Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Phenol | 2-Chlorophenol | 1,4-Dichloro benzene | N-Nitroso-Di-N-propylamine |
|-------------------|-----------------|-----------------|----------------------|----------------------------|
| QC Batch#: | MS0311958270EXA | MS0311958270EXA | MS0311958270EXA | MS0311958270EXA |
| Analy. Method: | EPA 8270 | EPA 8270 | EPA 8270 | EPA 8270 |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 | EPA 3550 |
| Analyst: | L.Duong | L.Duong | L.Duong | L.Duong |
| MS/MSD #: | 9503276-01 | 9503276-01 | 9503276-01 | 9503276-01 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/11/95 | 3/11/95 | 3/11/95 | 3/11/95 |
| Analyzed Date: | 3/16/95 | 3/16/95 | 3/16/95 | 3/16/95 |
| Instrument I.D.#: | GCHP5 | GCHP5 | GCHP5 | GCHP5 |
| Conc. Spiked: | 3300 ug/kg | 3300 ug/kg | 3300 ug/kg | 3300 ug/kg |
| Result: | 2800 | 2400 | 2400 | 2300 |
| MS % Recovery: | 85 | 73 | 73 | 70 |
| Dup. Result: | 3000 | 2600 | 2400 | 2400 |
| MSD % Recov.: | 91 | 79 | 73 | 73 |
| RPD: | 6.9 | 8.0 | 0.0 | 4.3 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

| MS/MSD LCS Control Limits | 5-112 | 23-134 | 20-124 | DL-230 |
|---------------------------------|-------|--------|--------|--------|
|---------------------------------|-------|--------|--------|--------|

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SEQUOIA ANALYTICAL

Mike Gregory

Mike Gregory
 Project Manager



Weiss & Associates Client Project ID: Shell 9570 Golf Links, Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Tim Utterback Work Order #: 9503630 -01 -06 Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | 1,2,4-Trichloro benzene | 4-Chloro-3 Methylphenol | Acenaphthene | 4-Nitrophenol |
|----------------|-------------------------|-------------------------|-----------------|-----------------|
| QC Batch#: | MS0311958270EXA | MS0311958270EXA | MS0311958270EXA | MS0311958270EXA |
| Analy. Method: | EPA 8270 | EPA 8270 | EPA 8270 | EPA 8270 |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 | EPA 3550 |

| | | | | |
|-------------------|------------|------------|------------|------------|
| Analyst: | L.Duong | L.Duong | L.Duong | L.Duong |
| MS/MSD #: | 9503276-01 | 9503276-01 | 9503276-01 | 9503276-01 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/11/95 | 3/11/95 | 3/11/95 | 3/11/95 |
| Analyzed Date: | 3/16/95 | 3/16/95 | 3/16/95 | 3/16/95 |
| Instrument I.D.#: | GCHP5 | GCHP5 | GCHP5 | GCHP5 |
| Conc. Spiked: | 3300 ug/kg | 3300 ug/kg | 3300 ug/kg | 3300 ug/kg |
| Result: | 2500 | 2400 | 2300 | 1400 |
| MS % Recovery: | 76 | 73 | 70 | 42 |
| Dup. Result: | 2500 | 2600 | 2400 | 1800 |
| MSD % Recov.: | 76 | 79 | 73 | 55 |
| RPD: | 0.0 | 8.0 | 4.3 | 25 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

| MS/MSD LCS | 44-142 | 22-147 | 47-145 | DL-132 |
|----------------|--------|--------|--------|--------|
| Control Limits | | | | |

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SEQUOIA ANALYTICAL

Mike Gregory

Mike Gregory
 Project Manager



Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

Client Project ID: Shell 9570 Golf Links, Oakland
Matrix: Solid

Work Order #: 9503630 -01 -06

Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | 2,4-Dinitro- toluene | Pentachloro- phenol | Pyrene |
|----------------|-------------------------|------------------------|-----------------|
| QC Batch#: | MS0311958270EXA | MS0311958270EXA | MS0311958270EXA |
| Analy. Method: | EPA 8270 | EPA 8270 | EPA 8270 |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 |

| | | | |
|-------------------|------------|------------|------------|
| Analyst: | L.Duong | L.Duong | L.Duong |
| MS/MSD #: | 9503276-01 | 9503276-01 | 9503276-01 |
| Sample Conc.: | N.D. | N.D. | N.D. |
| Prepared Date: | 3/11/95 | 3/11/95 | 3/11/95 |
| Analyzed Date: | 3/16/95 | 3/16/95 | 3/16/95 |
| Instrument I.D.#: | GCHP5 | GCHP5 | GCHP5 |
| Conc. Spiked: | 3300 ug/kg | 3300 ug/kg | 3300 ug/kg |

| | | | |
|----------------|------|------|------|
| Result: | 1900 | 1300 | 2200 |
| MS % Recovery: | 58 | 39 | 67 |

| | | | |
|---------------|------|------|------|
| Dup. Result: | 2100 | 1200 | 2400 |
| MSD % Recov.: | 64 | 36 | 73 |

| | | | |
|------------|------|------|------|
| RPD: | 10 | 8.0 | 8.7 |
| RPD Limit: | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

| MS/MSD LCS Control Limits | 39-139 | 14-176 | 52-115 |
|---------------------------------|--------|--------|--------|
|---------------------------------|--------|--------|--------|

Please Note:

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** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager



| | | | |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------|------------------------|
| Weiss & Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Project ID: Shell 9570 Golf Links, Oakland Matrix: Solid | Work Order #: 9503630 -01 -06 | Reported: Mar 22, 1995 |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------|------------------------|

QUALITY CONTROL DATA REPORT

| |
|-----------------------------------|
| Analyte: Diesel |
| QC Batch#: GC0313950HBPEXA |
| Analy. Method: EPA 8015 M |
| Prep. Method: EPA 3550 |

Analyst: B.Ali
MS/MSD #: 9503739-05
Sample Conc.: 1.7
Prepared Date: 3/13/95
Analyzed Date: 3/14/95
Instrument I.D.#: GCHP4B
Conc. Spiked: 15 mg/kg

Result: 7.4
MS % Recovery: 38

Dup. Result: 7.1
MSD % Recov.: 36

RPD: 4.1
RPD Limit: 0-50

LCS #: BLK031395

Prepared Date: 3/13/95
Analyzed Date: 3/14/95
Instrument I.D.#: GCHP4B
Conc. Spiked: 15 mg/kg

LCS Result: 8.4
LCS % Recov.: 56

| | |
|------------------------------------------|--------|
| MS/MSD LCS Control Limits | 38-122 |
|------------------------------------------|--------|

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SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager



Weiss & Associates Client Project ID: Shell 9570 Golf Links, Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Tim Utterback Work Order #: 9503630 -01 - 06 Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | 1,1-Dichloroethene | Trichloroethene | Benzene | Toluene | Chloro- benzene |
|----------------|--------------------|-----------------|-----------------|-----------------|--------------------|
| QC Batch#: | MS0308958240EXA | MS0308958240EXA | MS0308958240EXA | MS0308958240EXA | MS0308958240EXA |
| Analy. Method: | EPA 8240 | EPA 8240 | EPA 8240 | EPA 8240 | EPA 8240 |
| Prep. Method: | - | - | - | - | - |

| | | | | | |
|-------------------|------------|------------|------------|------------|------------|
| Analyst: | B.Pitamah | B.Pitamah | B.Pitamah | B.Pitamah | B.Pitamah |
| MS/MSD #: | 9503176-08 | 9503176-08 | 9503176-08 | 9503176-08 | 9503176-08 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 |
| Analyzed Date: | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 | 3/8/95 |
| Instrument I.D.#: | F3 | F3 | F3 | F3 | F3 |
| Conc. Spiked: | 2500 ug/kg | 2500 ug/kg | 2500 ug/kg | 2500 ug/kg | 2500 ug/kg |
| Result: | 2000 | 2500 | 2400 | 2500 | 2500 |
| MS % Recovery: | 80 | 100 | 96 | 100 | 100 |
| Dup. Result: | 2200 | 2600 | 2600 | 2700 | 2700 |
| MSD % Recov.: | 88 | 104 | 104 | 108 | 108 |
| RPD: | 9.5 | | | | |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

| MS/MSD LCS Control Limits | DL-234 | 71-157 | 37-151 | 47-150 | 37-160 |
|---------------------------------|--------|--------|--------|--------|--------|
|---------------------------------|--------|--------|--------|--------|--------|

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** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Mike Gregory

Mike Gregory
 Project Manager



| | | |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Weiss & Associates 5500 Shellmound Emeryville, CA 94608 Attention: Tim Utterback | Client Project ID: Shell 9570 Golf Links, Oakland Matrix: Solid Work Order #: 9503630 -01 -06 | Reported: Mar 22, 1995 |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------|

QUALITY CONTROL DATA REPORT

| Analyte: | Benzene | Toluene | Ethyl Benzene | Xylenes |
|-----------------------|-----------------|-----------------|------------------|-----------------|
| QC Batch#: | GC031295BTEXEXB | GC031295BTEXEXB | GC031295BTEXEXB | GC031295BTEXEXB |
| Analy. Method: | EPA 8020 | EPA 8020 | EPA 8020 | EPA 8020 |
| Prep. Method: | EPA 5030 | EPA 5030 | EPA 5030 | EPA 5030 |

| | | | | |
|--------------------------|------------|------------|------------|------------|
| Analyst: | R.Geckler | R.Geckler | R.Geckler | R.Geckler |
| MS/MSD #: | 9503141-10 | 9503141-10 | 9503141-10 | 9503141-10 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Prepared Date: | 3/12/95 | 3/12/95 | 3/12/95 | 3/12/95 |
| Analyzed Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Instrument I.D.#: | GCHP1 | GCHP1 | GCHP1 | GCHP1 |
| Conc. Spiked: | 0.20 mg/kg | 0.20 mg/kg | 0.20 mg/kg | 0.60 mg/kg |
| Result: | 0.18 | 0.18 | 0.19 | 0.56 |
| MS % Recovery: | 90 | 90 | 95 | 93 |
| Dup. Result: | 0.20 | 0.21 | 0.21 | 0.63 |
| MSD % Recov.: | 100 | 105 | 105 | 105 |
| RPD: | 11 | 15 | 10 | 12 |
| RPD Limit: | 0-50 | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

| MS/MSD LCS Control Limits | 55-145 | 47-149 | 47-155 | 56-140 |
|---------------------------------|--------|--------|--------|--------|
|---------------------------------|--------|--------|--------|--------|

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SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager



Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Tim Utterback

Client Project ID: Shell 9570 Golf Links, Oakland
Matrix: Solid

Work Order #: 9503630 -01 - 06

Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Naphthalene | Acenaphthene | Pyrene |
|----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC0309958100EXB | GC0309958100EXB | GC0309958100EXB |
| Analy. Method: | EPA 8100 | EPA 8100 | EPA 8100 |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 |

| | | | |
|-------------------|-----------|-----------|-----------|
| Analyst: | L.Haar | L.Haar | L.Haar |
| MS/MSD #: | BLK030995 | BLK030995 | BLK030995 |
| Sample Conc.: | N.D. | N.D. | N.D. |
| Prepared Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Analyzed Date: | 3/10/95 | 3/10/95 | 3/10/95 |
| Instrument I.D.#: | GCHP11 | GCHP11 | GCHP11 |
| Conc. Spiked: | 50 mg/L | 50 mg/L | 50 mg/L |

| | | | |
|----------------|----|----|----|
| Result: | 37 | 36 | 39 |
| MS % Recovery: | 74 | 72 | 78 |

| | | | |
|---------------|----|----|----|
| Dup. Result: | 35 | 34 | 38 |
| MSD % Recov.: | 70 | 68 | 76 |

| | | | |
|------------|------|------|------|
| RPD: | 5.6 | 5.7 | 2.6 |
| RPD Limit: | 0-50 | 0-50 | 0-50 |

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

| MS/MSD LCS Control Limits | DL-124 | DL-124 | DL-140 |
|---------------------------------|--------|--------|--------|
| | | | |

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SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
Project Manager



Sequoia Analytical

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

Weiss & Associates Client Project ID: Shell 9570 Golf Links, Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Tim Utterback Work Order #: 9503630 -01 - 06 Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Heptachlor | Aldrin | Dieldrin |
|----------------|-----------------|-----------------|-----------------|
| QC Batch#: | GC0309958080EXA | GC0309958080EXA | GC0309958080EXA |
| Analy. Method: | EPA 8080 | EPA 8080 | EPA 8080 |
| Prep. Method: | EPA 3550 | EPA 3550 | EPA 3550 |

| | | | |
|-------------------|-----------|-----------|-----------|
| Analyst: | L.Haar | L.Haar | L.Haar |
| MS/MSD #: | 950344604 | 950344604 | 950344604 |
| Sample Conc.: | N.D. | N.D. | N.D. |
| Prepared Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Analyzed Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Instrument I.D.#: | GCHP10 | GCHP10 | GCHP10 |
| Conc. Spiked: | 3.3 ug/kg | 3.3 ug/kg | 13 ug/kg |
| Result: | * | * | * |
| MS % Recovery: | * | * | * |
| Dup. Result: | * | * | * |
| MSD % Recov.: | * | * | * |
| RPD: | * | * | * |
| RPD Limit: | 0-50 | 0-50 | 0-50 |

| LCS #: | BLK030995 | BLK030995 | BLK030995 |
|-------------------|-----------|-----------|-----------|
| Prepared Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Analyzed Date: | 3/9/95 | 3/9/95 | 3/9/95 |
| Instrument I.D.#: | GCHP10 | GCHP10 | GCHP10 |
| Conc. Spiked: | 3.3 ug/kg | 3.3 ug/kg | 3.3 ug/kg |
| LCS Result: | 3.3 | 3.2 | 15 |
| LCS % Recov.: | 100 | 97 | 115 |

| MS/MSD LCS Control Limits | 39-137 | 47-139 | 62-132 |
|---------------------------------|--------|--------|--------|
|---------------------------------|--------|--------|--------|

* - Diluted Out

SEQUOIA ANALYTICAL

Mike Gregory
 Mike Gregory
 Project Manager

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** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9503630.WAA <8>



Sequoia Analytical

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 404 N. Wiget Lane Walnut Creek, CA 94598 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Weiss & Associates Client Project ID: Shell 9570 Golf Links, Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Tim Utterback Work Order #: 9503630 -01 - 06 Reported: Mar 22, 1995

QUALITY CONTROL DATA REPORT

| Analyte: | Beryllium | Cadmium | Chromium | Nickel | Total Oil & Grease |
|----------------|-----------------|-----------------|-----------------|-----------------|--------------------|
| QC Batch#: | ME0314956010MDC | ME0314956010MDC | ME0314956010MDC | ME0314956010MDC | OP0306955520EXA |
| Analy. Method: | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | SM 5520E |
| Prep. Method: | EPA 3050 | EPA 3050 | EPA 3050 | EPA 3050 | EPA 3550 |

| | | | | | |
|-------------------|--------------|--------------|--------------|--------------|------------|
| Analyst: | S. O'Donnell | S. O'Donnell | S. O'Donnell | S. O'Donnell | C. Garde |
| MS/MSD #: | 9503630-01 | 9503630-01 | 9503630-01 | 9503630-01 | BLK030695 |
| Sample Conc.: | 0.50 | N.D. | 49 | 39 | N.D. |
| Prepared Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 | 3/6/95 |
| Analyzed Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 | 3/7/95 |
| Instrument I.D.#: | MTJA2 | MTJA2 | MTJA2 | MTJA2 | MANUAL |
| Conc. Spiked: | 100 mg/kg | 100 mg/kg | 100 mg/kg | 100 mg/kg | 1000 mg/kg |
| Result: | 100 | 95 | 150 | 140 | 1100 |
| MS % Recovery: | 99 | 95 | 101 | 101 | 110 |
| Dup. Result: | 100 | 96 | 150 | 140 | 1100 |
| MSD % Recov.: | 99 | 96 | 101 | 101 | 110 |
| RPD: | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| RPD Limit: | 0-30 | 0-30 | 0-30 | 0-30 | 0-50 |

| | | | | |
|-------------------|-----------|-----------|-----------|-----------|
| LCS #: | BLK031495 | BLK031495 | BLK031495 | BLK031495 |
| Prepared Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Analyzed Date: | 3/14/95 | 3/14/95 | 3/14/95 | 3/14/95 |
| Instrument I.D.#: | MTJA2 | MTJA2 | MTJA2 | MTJA2 |
| Conc. Spiked: | 100 mg/kg | 100 mg/kg | 100 mg/kg | 100 mg/kg |
| LCS Result: | 100 | 99 | 110 | 100 |
| LCS % Recov.: | 100 | 99 | 110 | 100 |

| | | | | |
|----------------|--------|--------|--------|--------|
| MS/MSD | | | | 70-110 |
| LCS | 75-125 | 75-125 | 75-125 | 75-125 |
| Control Limits | | | | |

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SEQUOIA ANALYTICAL

Mike Gregory
 Mike Gregory
 Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9503630.WAA <9>



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: _____

Page of _____

Site Address: 9570 Golf Links Rd, Oakland

Analysis Required 950363 LAB: Sequoid

WIC#: 204-5508-2808

Shell Engineer: Jeff Byram Phone No.: _____
Fax #: _____

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: Tim Utterback Phone No.: (510) 547-5420
WA JOB # 81-1055-30 Fax #: 547-5043

Comments: Tank pit soil samples

Sampled by: Tim Utterback

Printed Name: Tim Utterback

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conts. |
|-----------|------|--------|------|-------|-----|---------------|
|-----------|------|--------|------|-------|-----|---------------|

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conts. |
|-----------|------|--------|------|-------|-----|---------------|
| W01-7 | | | X | | | 2 |
| W02-11 | | | X | | | 1 |
| NSW-7.5 | | | X | | | 1 |
| SSW-7.0 | | | X | | | 1 |
| ESW-7.0 | | | X | | | 1 |
| WSW-7.75 | | | X | | | 1 |

| TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/602) | Volatile Organics (EPA 8240) | Test for Disposal | Combination TPH 8015 & BTEX 8020 | Oil and Grease EPA 418-f-55202 | SVOA EPA 8270 | Asbestos TLIC for Cd, Cr, Pb, Ni, Zn | Container Size | Preparation Used | Composite Y/N |
|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------------------------|--------------------------------|---------------|--------------------------------------|----------------|------------------|---------------|
| X | X | X | X | | X | X | X | X | | | |
| X | X | X | X | | X | X | X | X | | | |
| X | X | X | X | | X | X | X | X | | | |
| X | X | X | X | | X | X | X | X | | | |
| X | X | X | X | | X | X | X | X | | | |
| X | X | X | X | | X | X | X | X | | | |

| CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME |
|--------------------------------------------------------|-------|------------------------------------------------------|
| G.W. Monitoring <input type="checkbox"/> | 4461 | 24 hours <input type="checkbox"/> |
| Site Investigation <input checked="" type="checkbox"/> | 4441 | 48 hours <input type="checkbox"/> |
| Soil Classify/Disposal <input type="checkbox"/> | 4442 | 15 days <input checked="" type="checkbox"/> (Normal) |
| Water Classify/Disposal <input type="checkbox"/> | 4443 | Other <input type="checkbox"/> |
| Soil/Air Rem. or Sys. O & M <input type="checkbox"/> | 4452 | |
| Water Rem. or Sys. O & M <input type="checkbox"/> | 4453 | |
| Other <input type="checkbox"/> | | |

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

| MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|----------------------|----------------------------|
| Soil 1A,B | Excellent |
| 2A | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |

Relinquished By (signature): [Signature] Printed Name: Tim Utterback Date: 3/8/95 Time: 10:30

Relinquished By (signature): [Signature] Printed Name: C. Westwater Date: 3-8-95 Time: 3:50

Relinquished By (signature): _____ Printed Name: _____ Date: _____ Time: _____

Received (signature): [Signature] Printed Name: C. Westwater Date: 3-8-95 Time: _____

Received (signature): _____ Printed Name: _____ Date: _____ Time: _____

Received (signature): [Signature] Printed Name: M. YONG Date: 3/8/95 Time: 16:05

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

ATTACHMENT C

TANK MANIFESTS AND CERTIFICATES

92044376
 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

| | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------|--|------------------------------------------------------|--|----------------------------------------------------------------------------|--|-----------------------------------------------------------------|--|-----------------------------------|--|----------------|--|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. C A 0 9 8 1 4 0 3 1 0 8 | | Manifest Document No. 2 3 1 7 0 | | 2. Page 1 of 1 | | Information in the shaded areas is not required by Federal law. | | | | | |
| 3. Generator's Name and Mailing Address SHELL OIL COMPANY HAZARDOUS WASTE DEPT. P.O. BOX 4848 ANAHEIM, CA 92803 | | | | A. State Manifest Document Number 92044376 | | B. State Generator's ID N Y H 0 3 6 0 1 0 1 7 7 1 | | | | | | | |
| 4. Generator's Phone (714) 520-3312 | | 5. Transporter 1 Company Name CROSBY & OVERTON, INC. | | 6. US EPA ID Number C A D 9 8 2 5 2 4 4 8 0 | | C. State Transporter's ID 431858 | | D. Transporter's Phone 510-633-0336 | | | | | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | | E. State Transporter's ID | | F. Transporter's Phone | | | | | | | |
| 9. Designated Facility Name and Site Address ROMIC ENVIRONMENTAL 2081 BAY ROAD EAST PALO ALTO, CA 94303 | | | | 10. US EPA ID Number C A D 0 0 9 4 5 2 6 5 7 | | G. State Facility's ID | | H. Facility's Phone 415-324-1638 | | | | | |
| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) a. RW WASTE FLAMMABLE LIQUID, N.O.S. (BENZENE, TETRAETHYL LEAD), 3, UN1993, I (D001), (D008), (D018) | | | | 12. Containers | | 13. Total Quantity | | 14. Unit | | L. Waste Number | | | |
| | | | | No. | | Type | | Quantity | | Wt/Vol | | State | |
| | | | | 0 0 1 | | T T | | 0 0 2 7 5 | | G | | EPA/Other D001 | |
| | | | | | | | | | | | | State | |
| | | | | | | | | | | | | EPA/Other | |
| 15. Additional Descriptions for Materials Listed Above RW WASTE FLAMMABLE LIQUID, N.O.S. (BENZENE, TETRAETHYL LEAD), 3, UN1993, I (D001), (D008), (D018) | | | | K. Handling Codes for Wastes Listed Above 01 | | | | | | | | | |
| 15. Special Handling Instructions and Additional Information AVOID CONTACT WITH EYES/SKIN 24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300 FLAMMABLE PLACARD REF UN1993 PROFILE # 006884 | | | | | | FACILITY: SERVICE STATION 9750 GOLF LINKS ROAD OAKLAND, CA. 94605 | | | | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. | | | | | | | | | | | | | |
| Printed/Typed Name Debra L. White | | | | Signature <i>Debra L. White</i> | | | | ON BEHALF OF SHELL OIL CO. | | Month Day Year 0 3 1 0 1 7 9 5 | | | |
| 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Richard Leger | | | | Signature <i>Richard Leger</i> | | | | | | Month Day Year 0 3 1 0 1 7 9 5 | | | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name | | | | Signature | | | | | | Month Day Year | | | |
| 19. Discrepancy Indication Space | | | | | | | | | | | | | |
| 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Mike Porter | | | | | | | | | | | | | |
| | | | | Signature <i>Mike Porter</i> | | | | | | Month Day Year 0 3 1 0 1 7 9 5 | | | |

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DO NOT WRITE BELOW THIS LINE.

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92044377

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

| | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------|--|----------------------------------------------------------------------------|--|-----------------------------------------|--|-----------------------------------------------------------------|--|-----------------|--|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. C A D 0 9 8 1 1 4 0 3 1 0 8 | | Manifest Document No. 2 3 1 7 1 | | 2. Page 1 of 1 | | Information in the shaded areas is not required by Federal law. | | | |
| 3. Generator's Name and Mailing Address SHELL OIL COMPANY HAZARDOUS WASTE DEPT. P.O. BOX 4848 ANAHEIM, CA 92803 | | | | A. State Manifest Document Number 92044377 | | B. State Generator's ID HYH036010177 | | | | | |
| 4. Generator's Phone (714) 520-3312 | | 5. Transporter 1 Company Name CROSBY & OVERTON, INC. | | 6. US EPA ID Number C A D 9 8 2 5 2 4 4 8 0 | | C. State Transporter's ID 431861 | | D. Transporter's Phone 714-633-6335 | | | |
| 7. Transporter 2 Company Name | | | | 8. US EPA ID Number | | E. State Transporter's ID | | F. Transporter's Phone | | | |
| 9. Designated Facility Name and Site Address ERICKSON, INC. 255 PARR BLVD. RICHMOND, CA 94801 | | | | 10. US EPA ID Number C A D 0 0 9 4 6 6 3 9 2 | | G. State Facility's ID CAD009466392 | | H. Facility's Phone 415-255-1393 | | | |
| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) NON-RCRA HAZARDOUS WASTE SOLID, ; | | | | 12. Containers | | 13. Total Quantity | | 14. Unit | | | |
| | | | | No. | | Type | | Wt/Vol | | I. Waste Number | |
| | | | | 0 0 1 | | T P | | 0 0 5 5 0 | | P | |
| | | | | | | | | | | State | |
| | | | | | | | | | | EPA/Other | |
| Additional Descriptions for Materials Listed Above HEMIY WASTE OIL TANK AND ASSOCIATED PIPING | | | | K. Handling Codes for Wastes Listed Above 01 | | | | | | | |
| 15. Special Handling Instructions and Additional Information AVOID CONTACT WITH EYES/SKIN 24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300 | | | | FACILITY: SERVICE STATION 9750 GOLF LINKS ROAD OAKLAND, CA. 94605 | | | | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws. | | | | | | | | | | | |
| If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. | | | | | | | | | | | |
| Printed/Typed Name Debra H. H. | | | | Signature Debra H. H. | | ON BEHALF OF SHELL OIL CO. | | Month Day Year 03 07 95 | | | |
| 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Richard L. Leger | | | | Signature Richard L. Leger | | | | Month Day Year 03 07 95 | | | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |
| 19. Discrepancy Indication Space | | | | | | | | | | | |
| 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name KAREN RUFFIN | | | | | | | | | | | |
| | | | | Signature Karen Ruffin | | | | Month Day Year 03 08 95 | | | |

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DO NOT WRITE BELOW THIS LINE.

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 19306

CUSTOMER
SHELL- JOSE ME
JOB NO.
965282

FOR: ERICKSON, INC. TANK NO. 15422

LOCATION: RICHMOND DATE: 95/03/15 TIME: 08:23

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 550 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK
SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.


REPRESENTATIVE

TITLE


INSPECTOR