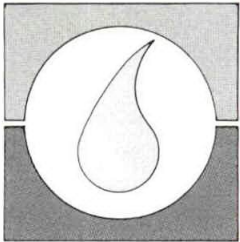


Duplicate UST 00613Z
LLST inc #3001



B & C EQUIPMENT CO.

A Division of PE
DEPARTMENT OF ECOLOGY
NWRO/TCP TANK UNIT

20320 80th Ave. S.
Kent, Washington 98032
Office (206) 872-8890
FAX (206) 872-8987
1-800-822-0084

| | |
|------------------------|-------------------------------------|
| INTERIM CLEANUP REPORT | <input checked="" type="checkbox"/> |
| SITE CHARACTERIZATION | <input type="checkbox"/> |
| FINAL CLEANUP REPORT | <input type="checkbox"/> |
| OTHER _____ | <input type="checkbox"/> |
| AFFECTED MEDIA: SOIL | <input checked="" type="checkbox"/> |
| OTHER _____ GW | <input checked="" type="checkbox"/> |
| INSPECTOR (INT.) | <input checked="" type="checkbox"/> |
| DATE 3-26-93 | |

RECEIVED

MAR 23 1993

DEPT. OF ECOLOGY

AM
Avis Rent-A-Car
System, Inc.
Seattle

June 1, 1992

Washington Department of Ecology
3190 160th Avenue SE
Bellevue, Washington 98008-5452

DEPARTMENT OF ECOLOGY
UNDERGROUND STORAGE TANKS

Attn: Joseph M. Hickey

JUN 15 1992

Re: Avis Headquarters
18811 16th Avenue So.
Seattle, Washington 98188

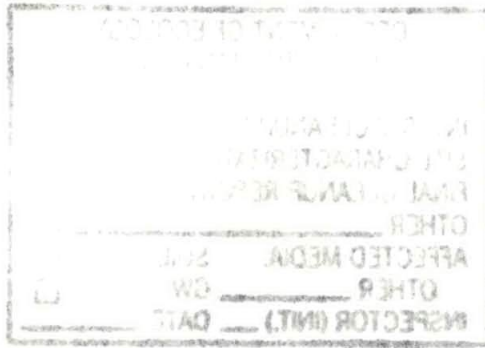
Dear Mr. Hickey:

This report presents the scope of environmental work performed by B & C Equipment Co. in regard to the removal of (1) 12,000 gallon gasoline and (2) 500 gallon underground storage tanks (UST) at the above referenced address. The (2) 500 gallon tanks were removed from the same excavation and contained (1) motor oil and (1) waste oil tank.

BACKGROUND:

On December 10, 1991, B & C Equipment removed (1) 12,000 gallon gasoline UST from Avis' 16th Ave. So. facility. The location of this gasoline UST is depicted in Figure 1. Three soil samples were collected and processed from this excavation; one from the bottom center at a depth of 12 feet and two from the east and west sidewalls at a depth of 10 feet. All 3 gas tank samples were analyzed for total petroleum hydrocarbons (TPH) by the hydrocarbon identification method (WTPH-HCID); and for benzene, toluene, ethyl benzene, and xylene (BTEX). The BTEX analyses revealed non-detectable levels for all three soil samples and the WTPH-HCID analyses revealed non-detectable levels for the gasoline, diesel, and heavy petroleum oil ranges. Additionally, there were no visible or olfactory signs of contamination from this gas tank excavation.

On January 27, 1992, B & C removed (1) 500 gallon motor oil UST and (1) 500 gallon waste oil UST from in front of the Avis garage maintenance area. Figure 1 shows the location of these tanks in relation to the building. Soil samples were collected at a depth of 7 feet from the north, east, and west sidewalls and at a depth of 9 feet from the bottom center of the excavation. Figure 2 shows the locations from where these samples were taken. No south sidewall sample was collected from the excavation after the two USTs were removed since this sidewall collapsed during collection of the other samples.



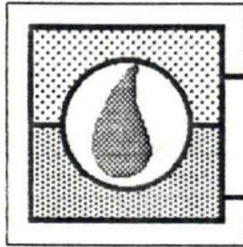
Independent Action Report Review

Site Name: Avis Headquarters
Inc. #: 3001 Date of Report: 6-1-92
County: King Date Report Rec'd: MORO 3-23-92 ^{HQ 6-15-92}

Reviewed by: J. Hickey

Comments (e.g. free prod., tank info., contaminant migration, PCS treated?):

Gas tank excavation OK - tank replaced.
waste oil & motor oil tanks excavation
was expanded. 30 yds³ taken to
Rabanco - soil all dug out. Excavation
GW still tested high (10 ppm TPH)
after 3500 gallons was pumped.
Consultant recommended monitoring
wells.



B & C

20320 80th Ave. S. Kent, WA 98032
(206) 872-8890

ENVIRONMENTAL SITE ASSESSMENT

For the property located at
18811 16th Ave. So.
Seattle, WA 98188

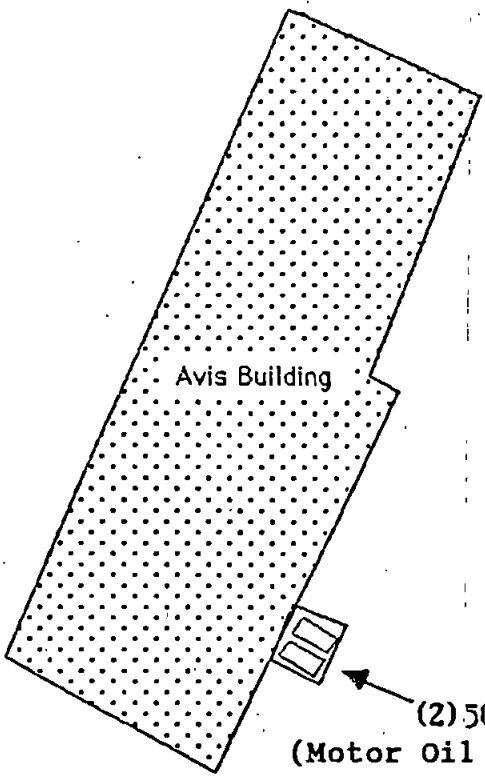
File name: Avis Headquarters

Prepared for:
Avis

| | | |
|---|--------------------|-------------------------------------|
| DEPARTMENT OF ECOLOGY NWRO/TCP TANK UNIT | | |
| INTERIM CLEANUP REPORT | | <input checked="" type="checkbox"/> |
| SITE CHARACTERIZATION | | <input type="checkbox"/> |
| FINAL CLEANUP REPORT | | <input type="checkbox"/> |
| OTHER _____ | | <input type="checkbox"/> |
| AFFECTED MEDIA: SOIL | | <input checked="" type="checkbox"/> |
| OTHER _____ GW | | <input checked="" type="checkbox"/> |
| INSPECTOR (INIT.) <i>SMK</i> | DATE <i>7-2-92</i> | |

So. 188th St.

16th Ave. So.



Avis Building

(2) 500 gallon UST's
(Motor Oil and Waste Oil tanks)

12,000 gallon
gasoline UST

KEY



B & C

Avis
18811 16th Ave. So.
Seattle, WA 98188

Job # 1387

Date: 4/30/92

Figure 1

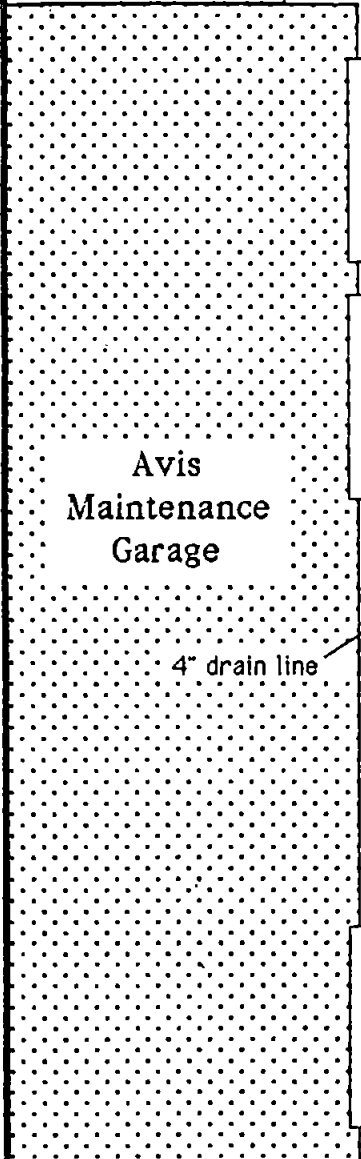
Barry DePan

Motor Oil/Waste Oil Tanks Excavation

North



Office Area



Bay Door

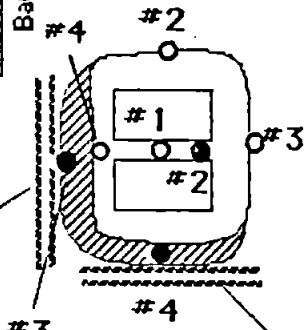
Bay Door

Bay Door

Avis
Maintenance
Garage

4" drain line

2" water line



Proposed Monitor
Well Locations

KEY

- Samples collected 1/27/92
- Samples collected 3/5/92



B & C

Avis
18811 16th Ave. So.
Seattle, WA 98188

Figure 2

Job # 1387

Date: 4/30/92

Barry DePan



Vicinity Map

Figure 3

There were visible signs of petroleum impacted soil in this excavation, particularly around the area of the southernmost UST fill pipe and it was from this vicinity that sample #4 was collected. All initial excavation samples were analyzed for TPH by the WTPH-HCID method to determine the ranges of petroleum contamination. In addition to the WTPH-HCID analysis, a toxicity characteristic leaching procedure (TCLP) for metals, chlorinated solvents by Method 8010, and PCB analysis was performed on the bottom center sample (sample #1) to document the concentrations of these parameters.

The results of the WTPH-HCID analyses revealed non-detectable levels in the gasoline range from all 4 soil samples and non-detectable levels in all hydrocarbon ranges from the north and east sidewall samples. However, the bottom center and west sidewall samples revealed hydrocarbon levels above detection limits in the diesel and heavy petroleum oil ranges. These hydrocarbon ranges were specifically addressed in samples collected during B & C's succeeding environmental investigation.

On March 5, 1992, B & C excavated and stockpiled an estimated 30 cubic yards of impacted soil from the excavation. Approximately 1 lateral foot of soil was removed from the south sidewall, 2 feet of soil from the west sidewall, and 2 feet of soil vertically from the bottom of the excavation. No further excavation was possible in the south and west directions since subsurface pipelines were encountered at a depth of 2 feet in these directions (refer to Figure 2). During the ensuing excavation, groundwater began to recharge into the tank hole. At this time, the sidewalls of the excavation showed groundwater saturation beginning at a depth of 6 feet and it was from this depth that the south and west sidewall samples were collected. One bottom center sample was collected at a depth of 11 feet from a clay material that showed no signs of contamination. One additional composite soil sample was collected from the excavated stockpile to profile the soil for later disposal. All (4) soil samples collected on March 5th were analyzed for diesel concentration by Method WTPH-D and for total hydrocarbon concentration by Method TPH 418.1. At the request of Rabanco Co., an additional semi-volatile organics analysis by EPA Method 8270 was performed on the stockpile sample to further profile the soil for disposal. The result of the March 5th environmental investigation revealed that all "excavation" samples contained non-detectable TPH concentrations in both the diesel and heavy petroleum oil ranges.

On March 12, 1992, Burlington Environmental Inc. pumped all standing water from the motor oil/waste oil tank excavation so that B & C Equipment could collect a groundwater recharge sample. The water exhibited a "sheen"; however, some of this sheen was probably the result of soil contaminating the recharging groundwater during the removal of soil on March 5th.

The 3,500 gallons of impacted water pumped from the excavation was taken to Burlington Environmental's disposal facility for treatment and processing. The sidewalls and bottom of the excavation showed no visual indications of soil discoloration from a petroleum nature after all the water was pumped from the excavation.

Recharge was relatively rapid into the excavation so the recharging groundwater sample was collected utilizing a stainless steel bailer. Prior to sampling, the bailer was thoroughly rinsed with water, washed withalconox detergent, and once again rinsed with water to remove any contaminants that may have remained on the bailer from previous sampling events. The excavation was backfilled with clean imported pea gravel after the recharge sample was collected.

All samples collected were placed in EPA approved glass containers. The samples were packed for minimal headspace, labeled, and placed on ice for transport to the laboratory accompanied by chain of custody documentation.

RESULTS:

Subsurface Conditions: Soil immediately surrounding the USTs consisted of a medium grained sandy fill material in both the gasoline UST excavation and the motor oil/waste oil UST excavation. Based on the analytical results from the gasoline excavation samples and visible soil conditions in this tank hole, no further excavation was performed into the native soil. Upon receiving the final analytical results from the December 10, 1991 sampling event, a new 10,000 gallon UST was installed into the gas tank excavation.

Soil in the motor oil/waste oil excavation consisted of poorly graded sands and gravels to a depth of 5 feet. Below this depth, the native soil of the site was encountered which consisted of silts and clays to the total depth explored of 11 feet. As previously mentioned, groundwater was encountered in the motor oil/waste oil excavation at a depth of approximately 6 feet.

Chemical Results:

The current DOE soil cleanup standards for the parameters analyzed are:

| | |
|------------------------------------|-----------------------------|
| TPH (gasoline)..... | 100 parts per million (ppm) |
| TPH (diesel and heavier oils)..... | 200 ppm |
| Benzene..... | 0.5 ppm |
| Toluene..... | 40.0 ppm |
| Ethyl benzene..... | 20.0 ppm |
| Xylene..... | 20.0 ppm |

The current DOE water cleanup standards for the parameters analyzed are:

TPH (all petroleum ranges).....1000 parts per billion (ppb)
 Benzene.....0.5 ppb
 Toluene.....40.0 ppb
 Ethyl benzene.....30.0 ppb
 Xylene.....20.0 ppb

As indicated in the Background Section of this report, the gasoline tank excavation showed non-detectable concentrations for all BTEX and TPH parameters.

The initial analytical results from the motor oil/waste oil UST sampling event performed on January 27th revealed TPH levels over DOE cleanup standards in the diesel and heavy petroleum oil ranges from the west sidewall and bottom center samples. Summarized below are the petroleum range analytical results from B & C Equipment's follow-up investigations performed on March 5th and March 12th. All units are expressed in ppm.

TABLE 1
March 5, 1992

| Soil Sample # | WTPH-D (diesel) | TPH 418.1 (total) ✓ |
|------------------|-----------------|---------------------|
| *1..... | 5,800..... | 10,000 |
| 2..... | ND..... | ND |
| 3..... | ND..... | ND |
| 4..... | ND..... | ND |

*Excavated stockpile sample. Note: "ND" denotes non-detected.

TABLE 2
March 12, 1992

| Groundwater Sample # | TPH (8015 Mod.) | Benzene | Toluene | Ethyl benzene | Xylene |
|-------------------------|-----------------|---------|---------|---------------|--------|
| **1..... | 9.9..... | ND..... | ND..... | ND..... | ND |

**Groundwater recharge sample. The BTEX parameters for the recharge sample were analyzed to a detection limit expressed in parts per billion (ppb).

Complete analytical methods and results for all sampling events are summarized in the attached certified laboratory reports.

CONCLUSIONS & RECOMMENDATIONS:

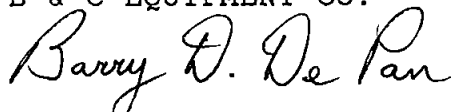
Upon acceptance of the excavated soil stockpile results, the estimated 30 cubic yards of soil was taken to Rabanco Co.'s transfer station in Seattle for final disposal at Roosevelt Regional Landfill.

Based on the analytical results from the initial motor oil/waste oil excavation samples collected 1/27/92 and the follow-up analytical results from the 3/5/92 excavation samples, B & C feels these results confirm the removal of impacted soils from this UST excavation to within DOE cleanup standards.

As referenced in the chemical results section, the groundwater recharge sample revealed a TPH concentration of 9.9 ppm and the BTEX concentrations were all non-detectable. Due to the relatively high water table on-site (i.e. 6 feet below surface), it is unknown without further investigation whether impacted groundwater has migrated a significant distance from the excavation. Therefore, B & C recommends the installation of (2) 4" monitoring wells to a total depth of 15 feet at the locations depicted in Figure 1. The actual locations of these 2 wells will be dictated by the location of subsurface utilities. Additionally, since the water table is relatively near the surface, the wells should be installed with 10 feet of screened casing with the remainder of the wells being completed with blank casing. The on-site topography has a definite down gradient slope from north to south. On this premise, the location of these (2) proposed wells should be sufficient to monitor downgradient groundwater conditions.

B & C further recommends to develop the wells by purging at least three casing volumes and sampling the wells on a quarterly basis for a period of (1) year. All wells will be analyzed for TPH by method 8015. Monitoring results would then be reported to the DOE's NW Regional Office quarterly. Upon review of this report, a written confirmation from the DOE's NW Regional Office would be greatly appreciated.

Sincerely,
B & C EQUIPMENT CO.



Barry D. DePan
Environmental Specialist



B & C EQUIPMENT CO.
A Division of PEECO

20320 80th Ave. S.
Kent, Washington 98032
Office (206) 872-8890
FAX (206) 872-8987
1-800-822-0084

**CHAIN OF CUSTODY
REQUEST FOR LABORATORY ANALYSIS**

| PROJ. NO. | | PROJECT NAME: | | | | | SAMPLER | | | | | | | | | | | | | | |
|-------------------------------------|------------------|---------------------------|----------|------|-----------------------------|------|--|---|------------------|-----------|---------------|--------|-----------------|---------------|----------|-----------------|------------------------|--------------|--------------------------|---------|--|
| #1387 | | AVIS | | | | | MC | | | | | | | | | | | | | | |
| | | ADDRESS: 18811 - 16th So. | | | | | | | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | Water | Soil | Sludge | Iced | SAMPLE LOCATION TANK SIZE & PRODUCT | Depth | BTEX 602/8020 | WTPH-HCID | WTPH-G w/BTEX | WTPH-D | WTPH-418.1 Mod. | TPH 8015 Mod. | Total Pb | PAH 625/8270 | Total Halogens 9076 | PCB 608/8080 | TCLP (As, Cd, Cr, Pb) | TCLP Pb | |
| 1 | 12-10 | 4:00 | | ✓ | | ✓ | Bottom Center 12000 | 12' | ✓ | ✓ | | | | | | | | | | | |
| 2 | 12-10 | 4:00 | | ✓ | | ✓ | West wall 10' | 10' | ✓ | ✓ | | | | | | | | | | | |
| 3 | 12-10 | 4:00 | | ✓ | | ✓ | East wall 10' | 10' | ✓ | ✓ | | | | | | | | | | | |
| 4 | 12-10 | | | | | | North wall 10' | 10' | | | | | | | | | | | | | |
| 5 | 12-10 | | | | | | South wall 10' | 10' | | | | | | | | | | | | | |
| Relinquished by: | | | Date | Time | Received by: | | | RUSH: YES <input type="radio"/> NO <input checked="" type="radio"/> | | | | | | | | | | | | | |
| Relinquished by: Mike Kirsch | | | 12-10 | 5:30 | Received by: [Signature] | | | COMMENTS: | | | | | | | | | | | | | |
| Relinquished by: Barry D. De Pan | | | 12/11/91 | 2:40 | Received by: [Signature] | | | | | | | | | | | | | | | | |

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: B & C Equipment Co.

Date: December 18, 1991

Report On: Analysis of Soil

Lab No: 21643

IDENTIFICATION:

Samples received on 12-11-91

Project: #1387 Avis, 18811 - 16th South

ANALYSIS:

| Lab Sample No. | 1 | 2 | 3 |
|-----------------------------|--------|--------|--------|
| Client ID | #1 | #2 | #3 |
| Units | mg/kg | mg/kg | mg/kg |
| WTPH-HCID | | | |
| Gasoline (C7-C12) | < 20 | < 20 | < 20 |
| Diesel (> C12-C24) | < 50 | < 50 | < 50 |
| Heavy Petroleum Oils (C24+) | < 100 | < 100 | < 100 |
| BTEX by Method 8020 | | | |
| Benzene | < 0.05 | < 0.05 | < 0.05 |
| Toluene | < 0.05 | < 0.05 | < 0.05 |
| Ethyl Benzene | < 0.05 | < 0.05 | < 0.05 |
| Xylenes | < 0.05 | < 0.05 | < 0.05 |
| SURROGATE RECOVERIES | | | |
| WTPH-HCID | | | |
| 1-Chlorooctane % | 90 | 104 | 105 |
| Perylene % | 95 | 107 | 98 |
| BTEX- | | | |
| Trifluorotoluene % | 70 | 73 | 75 |

< = less than

> = greater than

Results are reported on a dry weight basis.

SOUND ANALYTICAL SERVICES


STAN P. PALMQUIST



B & C EQUIPMENT CO.
A Division of FECCO

20320 80th Ave. S.
Kent, Washington 98032
Office (206) 872-8890
FAX (206) 872-8987
1-800-822-0084

**CHAIN OF CUSTODY
REQUEST FOR LABORATORY ANALYSIS**

| PROJ. NO. 1387 | | PROJECT NAME: <i>Avis</i> | | | | | SAMPLER <i>Mike Kirsch</i> | | | | | | | | | | | | | |
|--|---------|--|-------|------|--|------|--|-------|------------------|---|---------------|--------|-----------------|---------------|-----------|----------------------------------|------------------------|--------------|--------------------------|-----------------|
| | | ADDRESS: <i>18811 16th Ave So. Seattle, WA 98188</i> | | | | | | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | Water | Soil | Sludge | Iced | SAMPLE LOCATION TANK SIZE & PRODUCT | Depth | BTEX 602/8020 | WTPH-HCID | WTPH-G w/BTEX | WTPH-D | WTPH-418.1 Mod. | TPH 8015 Mod. | TPH 418.1 | Chlorinated Solvents 601/8010 | Total Halogens 9076 | PCB 608/8080 | TCLP (As, Cd, Cr, Pb) | TCLP (8 metals) |
| 1 | 1/27/92 | 2:00 | | ✓ | | ✓ | <i>Bottom center</i> | 9' | | ✓ | | | | | | ✓ | | ✓ | | ✓ |
| 2 | 1/27 | 2:10 | | ✓ | | ✓ | <i>N sidewall</i> | 7' | | ✓ | | | | | | | | | | |
| 3 | 1/27 | 2:15 | | ✓ | | ✓ | <i>E sidewall</i> | 7' | | ✓ | | | | | | | | | | |
| 4 | 1/27 | 2:30 | | ✓ | | ✓ | <i>W sidewall</i> | 7' | | ✓ | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <i>Mike Kirsch</i> | | | Date | Time | Received by: <i>Barry W. De Pau</i> | | | | | RUSH: YES <input type="radio"/> NO <input checked="" type="radio"/> | | | | | | | | | | |
| Relinquished by: <i>Barry W. De Pau</i> | | | Date | Time | Received by: <i>My ah</i> | | | | | COMMENTS: | | | | | | | | | | |
| Relinquished by: | | | | | Received by: | | | | | | | | | | | | | | | |



Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9202314-01
Client Sample ID: #1 Bottom Center

Date Collected: 01/27/92
Date Received : 02/05/92

----- WTPH-HCID -----

Preparation Date: 02/05/92
Analysis Date : 02/05/92

| | Result | SDL | |
|--------------------------------|--------|-----|----------|
| Gasoline Range Hydrocarbons... | 25 U | 25 | mg/kg DB |
| Diesel Range Hydrocarbons..... | 3800 | 63 | mg/kg DB |
| Lube Oil and Related Products. | 54000 | 130 | mg/kg DB |

| Surrogate recoveries | % Rec | LCL | UCL |
|--------------------------|-------|-----|-----|
| Bromofluorobenzene | 97.5 | 50 | 150 |
| 2-Fluorobiphenyl | 95.0 | 50 | 150 |
| p-Terphenyl | 100 | 50 | 150 |

Comments: Although the sample gave a result for diesel, there was no chromatographic pattern recognition when compared with the diesel standard. Sample was not concentrated for oil analysis to avoid off-scale readings and/or equipment contamination.

Analysis performed in accordance with Washington State Department of Ecology method WTPH-HCID.



This report is submitted for the exclusive use of the person, partnership, or corporation to whom it is addressed. Subsequent use of the name of this company or any member of its staff in connection with the advertising or sale of any product or process will be granted only on contract. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.



Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9202597-01A
Client Sample ID: #1 Bottom Center - 9'

Date Received : 02/12/92 Collection Date : 01/27/92
Test Code : TCLP_M Date Extracted : 02/12/92

Prepared by the Toxic Characteristic Leaching Procedure (TCLP), Method 1311, Test Methods for Evaluating Solid Waste, U.S.E.P.A., 3rd edition. Metals were determined on the aqueous extract or the as-received sample (if applicable) using either the EPA's 7000 series or EPA Method 6010 or a combination of both.

| Analyte | Result | MCL | SDL | mg/L | Analysis Date |
|----------------|---------|------|-------|------|---------------|
| | | | | | |
| Silver | 0.10 U | 5.0 | 0.10 | | 02/19/92 |
| Barium | 0.83 | 100. | 0.10 | | 02/19/92 |
| Cadmium | 0.010 U | 1.0 | 0.01 | | 02/19/92 |
| Lead | 0.10 U | 5.0 | 0.10 | | 02/19/92 |
| Chromium | 0.10 U | 5.0 | 0.10 | | 02/19/92 |
| Selenium | 0.20 U | 1.0 | 0.20 | | 02/19/92 |
| Arsenic | 0.20 U | 5.0 | 0.20 | | 02/19/92 |
| Mercury | 0.005 U | 0.2 | 0.005 | | 02/26/92 |

MCL = Maximum Contamination Level, as established by regulation.

SDL = Sample Detection Limit



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9202597-01B

Client Sample ID: #1 Bottom Center - 9'

Collection Date : 01/27/92

Date Received : 02/12/92

Date Analyzed : 02/14/92

Date Confirmed : 02/13/92

Test Code : 8010_S

Test Method : SW 8010

| Analyte | Result (ug/kg DB) | SDL (ug/kg DB) | PQL (ug/kg DB) | Analyte | Result (ug/kg DB) | SDL (ug/kg DB) | PQL (ug/kg DB) |
|-----------------------------|----------------------|-------------------|-------------------|-----------------------------|----------------------|-------------------|-------------------|
| Dichlorodifluoromethane ... | 1200 U | 120 | 1200 | Tetrachloroethylene | 0.36 U | 0.04 | 0.36 |
| Chloromethane | 0.96 U | 0.10 | 0.96 | Chlorodibromomethane | 1.1 U | 0.11 | 1.1 |
| Vinyl chloride | 2.2 U | 0.22 | 2.2 | Chlorobenzene | 3.0 U | 0.30 | 3.0 |
| Bromomethane | 120 U | 12 | 120 | Bromoform | 2.4 U | 0.24 | 2.4 |
| Chloroethane | 6.2 U | 0.62 | 6.2 | 1,1,2,2-Tetrachloroethane | 0.36 U | 0.04 | 0.36 |
| Trichlorofluoromethane | 60 U | 6.0 | 60 | 1,3-Dichlorobenzene | 3.8 U | 0.38 | 3.8 |
| 1,1-Dichloroethylene | 1.6 U | 0.16 | 1.6 | 1,4-Dichlorobenzene | 2.9 U | 0.29 | 2.9 |
| Dichloromethane | 60 U | 6.0 | 60 | 1,2-Dichlorobenzene | 1.8 U | 0.18 | 1.8 |
| trans-1,2-Dichloroethylene | 1.2 U | 0.12 | 1.2 | Benzyl chloride | 12 U | 1.2 | 12 |
| 1,1-Dichloroethane | 0.84 U | 0.08 | 0.84 | bis(2-Chloroethoxy)methane | 12000 U | 1200 | 12000 |
| Chloroform | 0.60 U | 0.06 | 0.60 | bis(2-Chloroisopropyl)ether | 2400 U | 240 | 2400 |
| 1,1,1-Trichloroethane | 0.36 U | 0.04 | 0.36 | Bromobenzene | 12 U | 1.2 | 12 |
| Carbon tetrachloride | 1.4 U | 0.14 | 1.4 | 1-Chlorohexane | 12 U | 1.2 | 12 |
| 1,2-Dichloroethane | 0.36 U | 0.04 | 0.36 | 2-Chloroethyl vinyl ether | 2400 U | 240 | 2400 |
| Trichloroethylene | 1.4 U | 0.14 | 1.4 | Chloromethylmethyl ether .. | 12000 U | 1200 | 12000 |
| 1,2-Dichloropropane | 0.48 U | 0.05 | 0.48 | Chlorotoluene | 12 U | 1.2 | 12 |
| Bromodichloromethane | 1.2 U | 0.12 | 1.2 | Dibromomethane | 48 U | 4.8 | 48 |
| trans-1,3-Dichloropropylene | 4.1 U | 0.41 | 4.1 | 1,1,1,2-Tetrachloroethane | 12 U | 1.2 | 12 |
| 1,1,2-Trichloroethane | 0.24 U | 0.02 | 0.24 | Trichloropropane | 12 U | 1.2 | 12 |

Surrogate recovery report for sample 9202597-01B

| Surrogate | Percent Recovery | Limits: | |
|----------------------------|------------------|---------|------|
| | | Min. | Max. |
| Bromochloromethane | 94 | 66 | 126 |
| 4-Bromofluorobenzene | 61 * | 63 | 125 |
| 1,2,3-Trichlorobenzene ... | 13 * | 34 | 148 |

* = Indicates that recovery is outside control limits



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9202597-01B

Client Sample ID: #1 Bottom Center - 9'

Collection Date : 01/27/92

Date Received : 02/12/92

Date Extracted : 02/21/92

Date Analyzed : 02/26/92

Date Confirmed : 02/26/92

Test Code : 8080AS

Test Method : SW 8080

Extraction Method : SW 3550

| Analyte | Result | SDL |
|--------------------|------------|------------|
| | (ug/kg DB) | (ug/kg DB) |
| Aroclor-1016 | 58 U | 58 |
| Aroclor-1221 | 120 U | 120 |
| Aroclor-1232 | 58 U | 58 |
| Aroclor-1242 | 58 U | 58 |
| Aroclor-1248 | 58 U | 58 |
| Aroclor-1254 | 58 U | 58 |
| Aroclor-1260 | 58 U | 58 |

Surrogate recovery report for sample 9202597-01B

| Surrogate | Percent Recovery | Limits: | |
|----------------------------|------------------|---------|------|
| | | Min. | Max. |
| Isodrin | 55 | 20 | 146 |
| Tetrachloro-m-xylene | 80 | 60 | 150 |
| Decachlorobiphenyl | 39 * | 60 | 150 |

* = Indicates that recovery is outside control limits



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9202314-02
Client Sample ID: #2 N. Sidewall

Date Collected: 01/27/92
Date Received : 02/05/92

----- WTPH-HCID -----

Preparation Date: 02/05/92
Analysis Date : 02/05/92

| | Result | | SDL | |
|--------------------------------|--------|---|-----|----------|
| Gasoline Range Hydrocarbons... | 24 | U | 24 | mg/kg DB |
| Diesel Range Hydrocarbons..... | 59 | U | 59 | mg/kg DB |
| Lube Oil and Related Products. | 120 | U | 120 | mg/kg DB |

| Surrogate recoveries | % Rec | LCL | UCL |
|--------------------------|-------|-----|-----|
| Bromofluorobenzene | 75.0 | 50 | 150 |
| 2-Fluorobiphenyl | 77.5 | 50 | 150 |
| p-Terphenyl | 75.0 | 50 | 150 |



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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9202314-03
Client Sample ID: #3 E. Sidewall

Date Collected: 01/27/92
Date Received : 02/05/92

----- WTPH-HCID -----

Preparation Date: 02/05/92
Analysis Date : 02/05/92

| | Result | | SDL | |
|--------------------------------|--------|---|-----|----------|
| Gasoline Range Hydrocarbons... | 23 | U | 23 | mg/kg DB |
| Diesel Range Hydrocarbons..... | 57 | U | 57 | mg/kg DB |
| Lube Oil and Related Products. | 110 | U | 110 | mg/kg DB |

| Surrogate recoveries | % Rec | LCL | UCL |
|--------------------------|-------|-----|-----|
| Bromofluorobenzene | 90.0 | 50 | 150 |
| 2-Fluorobiphenyl | 87.5 | 50 | 150 |
| p-Terphenyl | 90.0 | 50 | 150 |



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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9202314-04
Client Sample ID: #4 W. Sidewall

Date Collected: 01/27/92
Date Received : 02/05/92

----- WTPH-HCID -----

Preparation Date: 02/05/92
Analysis Date : 02/05/92

| | Result | SDL | | |
|--------------------------------|--------|-----|-------|----|
| Gasoline Range Hydrocarbons... | 23 U | 23 | mg/kg | DB |
| Diesel Range Hydrocarbons..... | 39000 | 58 | mg/kg | DB |
| Lube Oil and Related Products. | 380000 | 120 | mg/kg | DB |

| Surrogate recoveries | % Rec | LCL | UCL |
|--------------------------|-------|-----|-----|
| Bromofluorobenzene | 92.5 | 50 | 150 |
| 2-Fluorobiphenyl | 110 | 50 | 150 |
| p-Terphenyl | 698 * | 50 | 150 |

Comments: Although the sample gave a result for diesel, there was no chromatographic pattern recognition when compared with the diesel standard. Sample was diluted 50% for oil analysis to avoid equipment contamination. One of three surrogates had recovery outside of control limits due to matrix interference.

Analysis performed in accordance with Washington State Department of Ecology method WTPH-HCID.



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B & C EQUIPMENT CO.
A Division of PEECO

20320 80th Ave. S.
Kent, Washington 98032
Office (206) 872-8890
FAX (206) 872-8987
1-800-822-0084

**CHAIN OF CUSTODY
REQUEST FOR LABORATORY ANALYSIS**

| PROJ. NO. 1387-905 | | PROJECT NAME: <i>Avis</i> | | | | | SAMPLER <i>Barry De Pan</i> | | | | | | | | | | | | | | | |
|------------------------|--------|--|--------|------|--|-----|--|---|------------------|-----------|---------------|--------|-----------------|---------------|-----------|----------------------------------|------------------------|--------------|--------------------------|---------|--|--|
| | | ADDRESS: <i>18811 16th Ave So Seattle WA 98188</i> | | | | | | | | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | Water | Soil | Sludge | Ice | SAMPLE LOCATION TANK SIZE & PRODUCT | Depth | BTEX 602/8020 | WTPH-HCID | WTPH-G w/BTEX | WTPH-D | WTPH-418.1 Mod. | TPH 8015 Mod. | TPH 418.1 | Chlorinated Solvents 601/8010 | Total Halogens 9076 | PCB 608/8080 | TCLP (As, Cd, Cr, Pb) | TCLP Pb | | |
| 1 | 3/5/92 | 12:30 | | ✓ | | ✓ | Excavated stockpile | 1' | | | | ✓ | | | ✓ | | | | | | | |
| 2 | 3/5 | 1:30 | | ✓ | | ✓ | Bottom center | 11" | | | | ✓ | | | ✓ | | | | | | | |
| 3 | 3/5 | 2:15 | | ✓ | | ✓ | West sidewall | 6' | | | | ✓ | | | ✓ | | | | | | | |
| 4 | 3/5 | 2:45 | | ✓ | | ✓ | South sidewall | 6' | | | | ✓ | | | ✓ | | | | | | | |
| Relinquished by: | | | Date | Time | Received by: | | | RUSH: YES <input type="radio"/> NO <input checked="" type="radio"/> | | | | | | | | | | | | | | |
| <i>Barry D. De Pan</i> | | | 3/5/92 | 3:30 | | | | COMMENTS: | | | | | | | | | | | | | | |
| Relinquished by: | | | | | Received by: | | | | | | | | | | | | | | | | | |
| Relinquished by: | | | | | Received by: <i>Mel Parene</i> 3/5/92 1530 | | | | | | | | | | | | | | | | | |



Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

CLIENT: B&C Equipment Co.
20320 80th Ave. S.
Kent, WA 98032

Certificate of Analysis

Work Order# : 92-03-366
DATE RECEIVED : 03/05/92
DATE OF REPORT: 03/10/92
CLIENT JOB ID : Project No. 1387-905

ATTN :

Work ID : Avis
Taken By : Client
Transported by: Hand Delivered
Type : Soil

SAMPLE IDENTIFICATION:

| | Sample Description | Collection Date |
|----|------------------------|-----------------|
| 01 | #1 Excavated Stockpile | 03/05/92 12:30 |
| 02 | #2 Bottom Center | 03/05/92 01:30 |
| 03 | #3 West Sidewall | 03/10/92 02:15 |
| 04 | #4 South Sidewall | 03/05/92 02:45 |
| 05 | Method Blank | N/A |

FLAGGING:

The flag "U" indicates the analyte of interest was not detected, to the limit of detection indicated.

Unless otherwise instructed all samples will be discarded on 04/23/92

Respectfully submitted,
Laucks Testing Laboratories, Inc.

J. H. Owens





Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

CLIENT : B&C Equipment Co.

Certificate of Analysis

Work Order # 92-03-366

TESTS PERFORMED AND RESULTS:

| Analyte | Units | <u>01</u> | <u>02</u> | <u>03</u> | <u>04</u> |
|-----------------------|----------|-----------|-----------|-----------|-----------|
| Total Solids | % | 87.4 | 87.3 | 81.4 | 82.2 |
| WA TPH Oil and Grease | mg/kg DB | 10000. | 20. U | 20. U | 20. U |



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9203366-01 Date Collected: 03/05/92
Client Sample ID: #1 Excavated StockpDate Received : 03/05/92

----- WTPH-D -----

Preparation Date: 03/06/92
Analysis Date : 03/06/92

| | Result | SDL |
|-------------------|--------|-------------|
| Diesel Range..... | 5800 | 25 mg/kg DB |

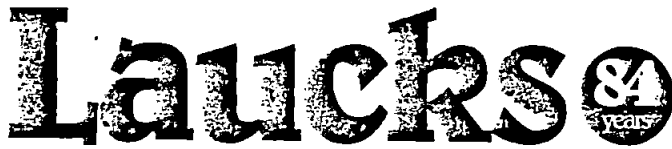
| Surrogate recoveries | % Rec | LCL | UCL |
|------------------------|-------|-----|-----|
| 2-Fluorobiphenyl | 98.0 | 50 | 150 |
| p-Terphenyl | 39.0* | 50 | 150 |

Comments: Although the sample showed a result in the diesel range, there was no pattern recognition when compared with the diesel standard. P-Terphenyl had a recovery outside of the control limits due to matrix interference.

Analysis performed in accordance with Washington State Department of Ecology method WTPH-D.



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9203759-01A

Client Sample ID: #1 Excavated Stockpile

Collection Date : N/A

Date Received : 03/13/92

Date Extracted : 03/13/92

Date Analyzed : 03/24/92

Test Code : LXCSS

Test Method : SW8270

Extraction Method : SW3550

| Analyte | Result (ug/kg DB) | SDL (ug/kg DB) | Analyte | Result (ug/kg DB) | SDL (ug/kg DB) |
|------------------------------|----------------------|-------------------|------------------------------|----------------------|-------------------|
| Phenol | 780 U | 780 | 3-Nitroaniline | 3900 U | 3900 |
| Aniline | 3900 U | 3900 | Acenaphthene | 780 U | 780 |
| Bis(2-chloroethyl)ether | 780 U | 780 | 2,4-Dinitrophenol | 7800 U | 7800 |
| 2-Chlorophenol | 780 U | 780 | 4-Nitrophenol | 7800 U | 7800 |
| 1,3-Dichlorobenzene | 780 U | 780 | Dibenzofuran | 780 U | 780 |
| 1,4-Dichlorobenzene | 780 U | 780 | 2,4-Dinitrotoluene | 1600 U | 1600 |
| Benzyl alcohol | 780 U | 780 | Diethyl phthalate | 780 U | 780 |
| 1,2-Dichlorobenzene | 780 U | 780 | 4-Chlorophenyl phenylether | 780 U | 780 |
| 2-Methylphenol | 780 U | 780 | Fluorene | 780 U | 780 |
| Bis(2-chloroisopropyl)ether | 780 U | 780 | 4-Nitroaniline | 1600 U | 1600 |
| 4-Methylphenol | 780 U | 780 | 4,6-Dinitro-2-methylphenol | 7800 U | 7800 |
| N-Nitroso-di-n-propylamine | 780 U | 780 | N-Nitrosodiphenylamine | 780 U | 780 |
| Hexachloroethane | 1600 U | 1600 | 1,2-Diphenylhydrazine | 1600 U | 1600 |
| Nitrobenzene | 780 U | 780 | 4-Bromophenyl phenylether .. | 1600 U | 1600 |
| Isophorone | 780 U | 780 | Hexachlorobenzene | 1600 U | 1600 |
| 2-Nitrophenol | 1600 U | 1600 | Pentachlorophenol | 7800 U | 7800 |
| 2,4-Dimethylphenol | 780 U | 780 | Phenanthrene | 780 U | 780 |
| Benzoic acid | 19000 U | 19000 | Anthracene | 780 U | 780 |
| Bis(2-chloroethoxy)methane | 780 U | 780 | Carbazole | 780 U | 780 |
| 2,4-Dichlorophenol | 1600 U | 1600 | Di-n-butyl phthalate | 780 U | 780 |
| 1,2,4-Trichlorobenzene | 780 U | 780 | Fluoranthene | 780 U | 780 |
| Naphthalene | 780 U | 780 | Pyrene | 780 U | 780 |
| 4-Chloroaniline | 780 U | 780 | Benzidine | 19000 U | 19000 |
| Hexachlorobutadiene | 780 U | 780 | Butylbenzylphthalate | 780 U | 780 |
| 4-Chloro-3-methylphenol | 1600 U | 1600 | 3,3'-Dichlorobenzidine | 7800 U | 7800 |
| 2-Methylnaphthalene | 780 U | 780 | Benzo(a)anthracene | 780 U | 780 |
| Hexachlorocyclopentadiene .. | 1600 U | 1600 | Chrysene | 780 U | 780 |
| 2,4,6-Trichlorophenol | 1600 U | 1600 | Bis(2-ethylhexyl)phthalate | 780 U | 780 |
| 2,4,5-Trichlorophenol | 1600 U | 1600 | Di-n-octyl phthalate | 780 U | 780 |
| 2-Chloronaphthalene | 780 U | 780 | Benzo(b)fluoranthene | 780 U | 780 |
| 2-Nitroaniline | 1600 U | 1600 | Benzo(k)fluoranthene | 780 U | 780 |
| Dimethyl phthalate | 780 U | 780 | Benzo(a)pyrene | 780 U | 780 |
| Acenaphthylene | 780 U | 780 | Indeno(1,2,3-cd)pyrene | 780 U | 780 |
| 2,6-Dinitrotoluene | 1600 U | 1600 | Dibenzo(a,h)anthracene | 780 U | 780 |
| | | | Banzo(g,h,i)perylene | 780 U | 780 |



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9203366-02 Date Collected: 03/05/92
Client Sample ID: #2 Bottom Center Date Received : 03/05/92

----- WTPH-D -----

Preparation Date: 03/06/92
Analysis Date : 03/06/92

| | Result | SDL | |
|-------------------|--------|-----|----------|
| Diesel Range..... | 25 U | 25 | mg/kg DB |

| Surrogate recoveries | % Rec | LCL | UCL |
|------------------------|-------|-----|-----|
| 2-Fluorobiphenyl | 101 | 50 | 150 |
| p-Terphenyl | 76.0 | 50 | 150 |

Comments:

Analysis performed in accordance with Washington State Department of Ecology method WTPH-D.



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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9203366-03 Date Collected: 03/10/92
Client Sample ID: #3 West Sidewall Date Received : 03/05/92

----- WTPH-D -----

Preparation Date: 03/06/92
Analysis Date : 03/06/92

| | Result | SDL |
|-------------------|--------|-------------|
| Diesel Range..... | 25 U | 25 mg/kg DB |

| Surrogate recoveries | % Rec | LCL | UCL |
|------------------------|-------|-----|-----|
| 2-Fluorobiphenyl | 105 | 50 | 150 |
| p-Terphenyl | 100 | 50 | 150 |

Comments:

Analysis performed in accordance with Washington State Department of Ecology method WTPH-D.



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Testing Laboratories, Inc.

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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9203366-04 Date Collected: 03/05/92
Client Sample ID: #4 South Sidewall Date Received : 03/05/92

----- WTPH-D -----

Preparation Date: 03/06/92
Analysis Date : 03/06/92

| | Result | SDL |
|-------------------|--------|-------------|
| Diesel Range..... | 25 U | 25 mg/kg DB |

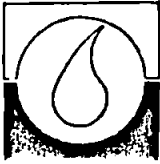
| Surrogate recoveries | % Rec | LCL | UCL |
|------------------------|-------|-----|-----|
| 2-Fluorobiphenyl | 98.0 | 50 | 150 |
| p-Terphenyl | 95.0 | 50 | 150 |

Comments:

Analysis performed in accordance with Washington State Department of Ecology method WTPH-D.



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A Division of FEED

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Kent, Washington 98032
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FAX (206) 872-8987
1-800-822-0084

CHAIN OF CUSTODY
REQUEST FOR LABORATORY ANALYSIS

| PROJ. NO. 1387-905 | | PROJECT NAME: <i>Avis</i> | | | | | SAMPLER <i>Barry DePan</i> | | | | | | | | | | | | | |
|---|----------------|---------------------------|-------------------------------------|------|--------|-------------------------------------|--|-----------|-------------------------------------|-----------|---------------|--------|-----------------|-------------------------------------|----------|-----------------|------------------------|--------------|--------------------------|---------|
| ADDRESS: <i>18811 16th Ave. So. Seattle, WA 98188</i> | | | | | | | | | | | | | | | | | | | | |
| SAMPLE NUMBER | DATE | TIME | Water | Soil | Sludge | Ice | SAMPLE LOCATION TANK SIZE & PRODUCT | Depth | BTEX 602/8020 | WTPH-HCID | WTPH-G w/BTEX | WTPH-D | WTPH-418.1 Mod. | TPH 8015 Mod. | Total Pb | PAH 625/8270 | Total Halogens 9076 | PCB 608/8080 | TCLP (As, Cd, Cr, Pb) | TCLP Pb |
| <i>1</i> | <i>3/12/92</i> | <i>9:30</i> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <i>Groundwater recharge</i> | <i>9'</i> | <input checked="" type="checkbox"/> | | | | | <input checked="" type="checkbox"/> | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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| | | | | | |
|---|------------------------|----------------------|------------------------------------|----------------------|---|
| Relinquished by: <i>Barry W. DePan</i> | Date <i>3/12/92</i> | Time <i>10:30</i> | Received by: <i>F. Williams</i> | <i>3/12/92 10:30</i> | RUSH: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| Relinquished by: | | | Received by: | | |
| Relinquished by: | | | Received by: | | |

COMMENTS:



Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Chemistry, Microbiology, and Technical Services

CLIENT : B&C Equipment Co.

Certificate of Analysis

Work Order # 92-03-713

TESTS PERFORMED AND RESULTS:

| Analyte | Units | Q1 |
|----------------------------|-------|-----|
| Total Hydrocarbons (M8015) | mg/L | 9.9 |



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Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX.767-5063

Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9203713-01A
Client Sample ID: #1 Groundwater Recharge

Collection Date : 03/12/92
Date Received : 03/12/92
Date Analyzed : 03/12/92

Test Code : BTEX W
Test Method : SW 8020/EP602

Report Units : ug/L

| Analyte | Result | SDL | Analysis Date | Confirmation Date |
|--------------------|--------|-----|---------------|-------------------|
| Benzene..... | 1.0 U | 1 | 03/12/92 | 03/12/92 |
| Toluene..... | 1.0 U | 1 | 03/12/92 | 03/12/92 |
| Ethylbenzene..... | 1.0 U | 1 | 03/12/92 | 03/12/92 |
| Total xylenes..... | 1.0 U | 1 | 03/12/92 | 03/12/92 |

Surrogate recovery report for sample 9203713-01A

| Surrogate | Percent Recovery | Limits: | |
|----------------------------|------------------|---------|------|
| | | Min. | Max. |
| Bromofluorobenzene | 108 | 78 | 119 |
| 1,2,3-Trichlorobenzene ... | 121 | 61 | 145 |



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