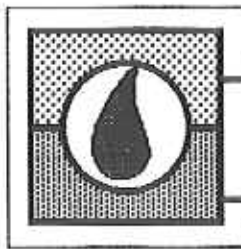


572  
03-91  
MF  
Solk  
FW  
Intern



**B & C**

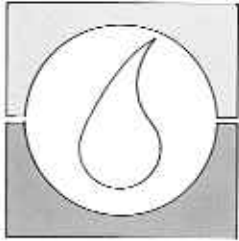
**20320 80th Ave. S. Kent, WA 98032  
(206) 872-8890**

**ENVIRONMENTAL SITE ASSESSMENT**

**For the property located at  
12727 412th Ave. S.E.  
North Bend, WA 98045**

**Prepared for:  
Cascade Autovon**

**RECEIVED  
DEC 2 1991  
DEPT. OF ECOLOGY**



# B & C EQUIPMENT CO.

A Division of PRECO

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

November 12, 1991

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

Attn: Joseph M. Hickey

Re: Cascade Autovon Company  
12727 412th Avenue SE  
North Bend, Washington 98045

Dear Mr. Hickey:

This report presents the scope of environmental work performed by B & C Equipment Co. in regard to the removal of (2) 10,000 gallon underground diesel tanks at Cascade Autovon.

## BACKGROUND:

On June 4, 1991, B & C Equipment removed the two diesel USTs from Cascade Autovon and collected (4) soil samples from the excavation, (2) beneath each tank at a depth of 11 feet and (2) samples from the north and south sidewalls at a depth of 9 feet. Figure 1 delineates the actual location of the sample collection.

The results of this initial sample collection revealed a Total Petroleum Hydrocarbon (TPH) concentration of 1,000 parts per million (ppm) from beneath the southern tank. The remaining (3) soil samples revealed non-detectable levels for the TPH analysis. Due to the high concentration level beneath the south tank, it was presumed that samples collected from the north side of the excavation were not taken at a sufficient depth to reveal contamination.

On June 13th, B & C collected (2) additional soil samples from the north sidewall and bottom center of the north tank at a depth of 9 feet and 11 feet respectively (refer to Figure 1). The results of these samples revealed a TPH concentration of 710 ppm from the north sidewall and 12,000 ppm from the bottom center sample. Additionally, the bottom center sample revealed contamination from an aged gas/diesel source.

On October 16th and 18th, B & C performed a subsequent excavation in an attempt to remove the remaining contamination from the excavation. At the time of this ensuing excavation, groundwater was encountered at a depth of approximately 10 1/2 feet. To diminish the effect of recharging groundwater contaminating native

soil as the excavation proceeded, B & C pumped approximately 10,000 gallons of recharging water into an on-site 20,000 gallon Baker Tank for later disposal at the ChemPro treatment facility. As the excavation progressed it was evident that the contamination had migrated through the groundwater table/capillary fringe interface. B & C removed and segregated the upper 10 feet of clean soil from the contaminated soil below the water table interface. Approximately 200 cubic yards of contaminated soil was removed from the excavation and stockpiled on-site. The contaminated soil was placed on visquine plastic, bermed and covered to prevent run-off in the event of rain.

Five soil samples were collected at a depth of 10 1/2 feet from the sidewalls of the excavation; two bottom center samples from the north and south portions of the excavation at a depth of 13 1/2 and 12 feet respectively; and one groundwater recharge sample from the north side of the excavation. No southeast sidewall sample could be collected as further excavation in this direction would serve to undermine the foundation of the security fence area where the facility transformer is located. Refer to Figure 2 for the sample locations of the October 18th excavation. In addition to the excavation samples, (3) samples were collected from the contaminated soil stockpile on October 16th to profile the soil for later treatment or disposal.

Due to the existence of two concrete tank hold-down pads at the southern end of the excavation, sample #6 was collected between these two existing concrete pads. The groundwater sample (sample #7) was collected by extending a clean PVC bailer over the trackhoe arm and lowering the bailer into the recharged water at the north end of the excavation. Prior to sampling, the bailer was cleansed with a thorough tapwater rinse,alconox detergent wash, and final tapwater rinse.

All samples were collected using disposable vinyl gloves with 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. Soil beneath the two USTs and on top of the two concrete hold-down pads consisted of a coarse-grained grayish sandy material. It was this coarser grained sand that exhibited the most visual and olfactory contamination.

The native soil of the excavation consisted of a silty sand to a depth of approximately 7-8 feet but tapers slightly to varying depths around the perimeter of the excavation. Below the 8 foot depth, the soil consisted mainly of pebbles and cobbles mixed with silty sand from previous alluvial depositions. Soil beneath the water table (10 1/2 feet) at the north end of the excavation

consisted mainly of larger cobbles and rocks from alluvial depositions with silty sand in the interstices.

Chemical Results: Due to the June 13, 1991 analyses revealing contamination from an aged gas/diesel source, all subsequent samples collected on October 16th and 18th were analyzed for TPH as well as benzene, toluene, ethyl benzene, and xylene (BTEX).

The current Department of Ecology (DOE) soil cleanup standards for the parameters analyzed are:

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

The current Department of Ecology (DOE) water cleanup standards for the parameters analyzed are:

TPH (gasoline & diesel)....	1000 parts per billion (ppb)
Benzene.....	0.5 ppb
Toluene.....	40.0 ppb
Ethyl benzene.....	30.0 ppb
Xylene.....	20.0 ppb

Samples #1-3 were collected October 16th from the contaminated soil stockpile and revealed a diesel range TPH concentration of 8,700 ppm from sample #1 and 1100 ppm from samples #2 and #3. The gasoline range TPH concentration for the stockpile samples were all within DOE cleanup goals.

The analyses results of the October 18th excavation samples revealed a diesel range TPH concentration of 2,900 ppm, 550 ppm, and 2,000 ppm from the northeast, northwest and southwest sidewall samples respectively. The groundwater recharge sample revealed a diesel range TPH concentration of 8.5 ppm.

Results within the DOE cleanup standard for diesel contaminated soil were obtained from the north sidewall with a TPH concentration at 110 ppm. The south sidewall (sample #11) and the two bottom samples (samples #6 and #8) revealed non-detectable levels in the diesel range.

All excavation soil samples and the groundwater recharge sample revealed either non-detectable levels or levels under the current DOE cleanup goals for both the BTEX and gasoline range TPH analyses.

The following tables summarize the analytical results from all four sampling events conducted by B & C Equipment Co. All concentration units are presented in parts per million:

TABLE 1  
June 4, 1991

<u>Sample #</u>	<u>Location</u>	<u>TPH Concentration</u>
1.....	N tank - N sidewall.....	< 10
2.....	N tank - bottom center.....	< 10
3.....	S tank - bottom center.....	1,000
4.....	S tank - S sidewall.....	< 10

TABLE 2  
June 13, 1991

<u>Sample #</u>	<u>Location</u>	<u>TPH Concentration</u>
1.....	N tank - N sidewall.....	710
2.....	N tank - bottom center.....	12,000

TABLE 3  
October 16, 1991

<u>Sample #</u>	<u>TPH gas/diesel</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylene</u>
1.....	62 / 8,700.....	< 0.004...	0.120.....	0.091.....	0.570
2.....	< 20 / 1,100.....	< 0.005...	< 0.005.....	< 0.005.....	0.008
3.....	32 / 1,100.....	< 0.004...	< 0.004.....	< 0.004.....	0.018

TABLE 3  
October 18, 1991

<u>Sample #</u>	<u>TPH gas/diesel</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl benzene</u>	<u>Xylene</u>
4.....	100 / 2,900.....	< 0.004...	< 0.004.....	0.016.....	0.120
5.....	< 20 / 110.....	< 0.005...	< 0.005.....	< 0.005.....	0.008
6.....	< 20 / < 50.....	< 0.006...	< 0.006.....	< 0.006.....	< 0.006
*7.....	< 0.005 / 8.5...	< 0.001...	< 0.001.....	< 0.001.....	< 0.001
8.....	< 20 / < 50.....	< 0.005...	< 0.005.....	< 0.005.....	< 0.005
9.....	< 20 / 550.....	< 0.005...	< 0.005.....	< 0.005.....	< 0.005
10.....	24 / 2,000.....	< 0.004...	< 0.004.....	< 0.004.....	0.015
11.....	< 20 / < 50.....	< 0.006...	< 0.006.....	< 0.006.....	< 0.006

\*Sample #7 - Groundwater recharge sample.

Complete analytical methods and results for all sampling conducted between June 4, 1991 and October 18, 1991 are summarized in the attached certified analytical reports.

## CONCLUSIONS & RECOMMENDATIONS:

As the October 16th and 18th laboratory results document, gasoline range analyses were within Department of Ecology cleanup goals for all samples including the contaminated soil stockpile samples for both TPH and BTEX parameters.

Due to the facility's main transformer on the west side of Cascade Autovon's property, access for further excavation in this area was limited to the extent depicted in Figure 2. Also as Figure 2 illustrates, no additional soil removal was possible along the east sidewall of the excavation without undermining the foundation of the security area and the equipment that is stored in this locale such as Cascade's transformer pad.

Based on analytical documentation and observations of its October 18th excavation, B & C feels these results corroborate its theory that:

1) The analyses results from sample #5 collected Oct. 18th confirm contamination migration was limited to this extent in the northward direction.

2) The south sidewall sample collected June 4th (sample #4) and the confirmation sample collected October 18th (sample #11) corroborates B & C's claim that contamination has not migrated in this direction.

3) Contamination is limited in depth to 10-11 feet as substantiated by the analyses results from the two bottom samples (#6 and #8) collected October 18th and the fact that this subsequent excavation proceeded at a time of year that allowed the lowest possible water table for soil removal.

Although the analytical results from the northeast, northwest, and southwest sidewall samples revealed TPH contamination above DOE cleanup goals in the diesel range, the limited access to the west and structural concerns to the east make it impractical to achieve DOE cleanup goals in these directions through additional excavation. Because the remaining contaminant in the soil is limited to diesel in nature and to 2,900 ppm TPH and less, B & C feels that any environmental threat to health and public at the site is minimal. A monitoring program should be implemented, however, to insure that the remaining contaminated soil does not impact the groundwater down-gradient of the excavation.


B & C recommends the installation of (3) 4-inch monitoring wells at the locations depicted in Figure 2. The southwest monitoring well would serve to observe conditions in this area of the site and the northeast and northwest wells would serve to monitor conditions at the opposite side of the excavation. All monitoring wells will be installed to a total depth of 25 feet and surveyed upon completion to determine the local gradient. B & C further recommends to develop the wells by purging three casing volumes and sampling the wells on a quarterly basis for a period of (1) year. All wells will be analyzed for BTEX and TPH by method 8015 to insure the integrity of the groundwater. If the wells reveal conditions

within the DOE's cleanup standards for that period, B & C will recommend a subsequent monitoring plan to follow-up on the existing conditions.

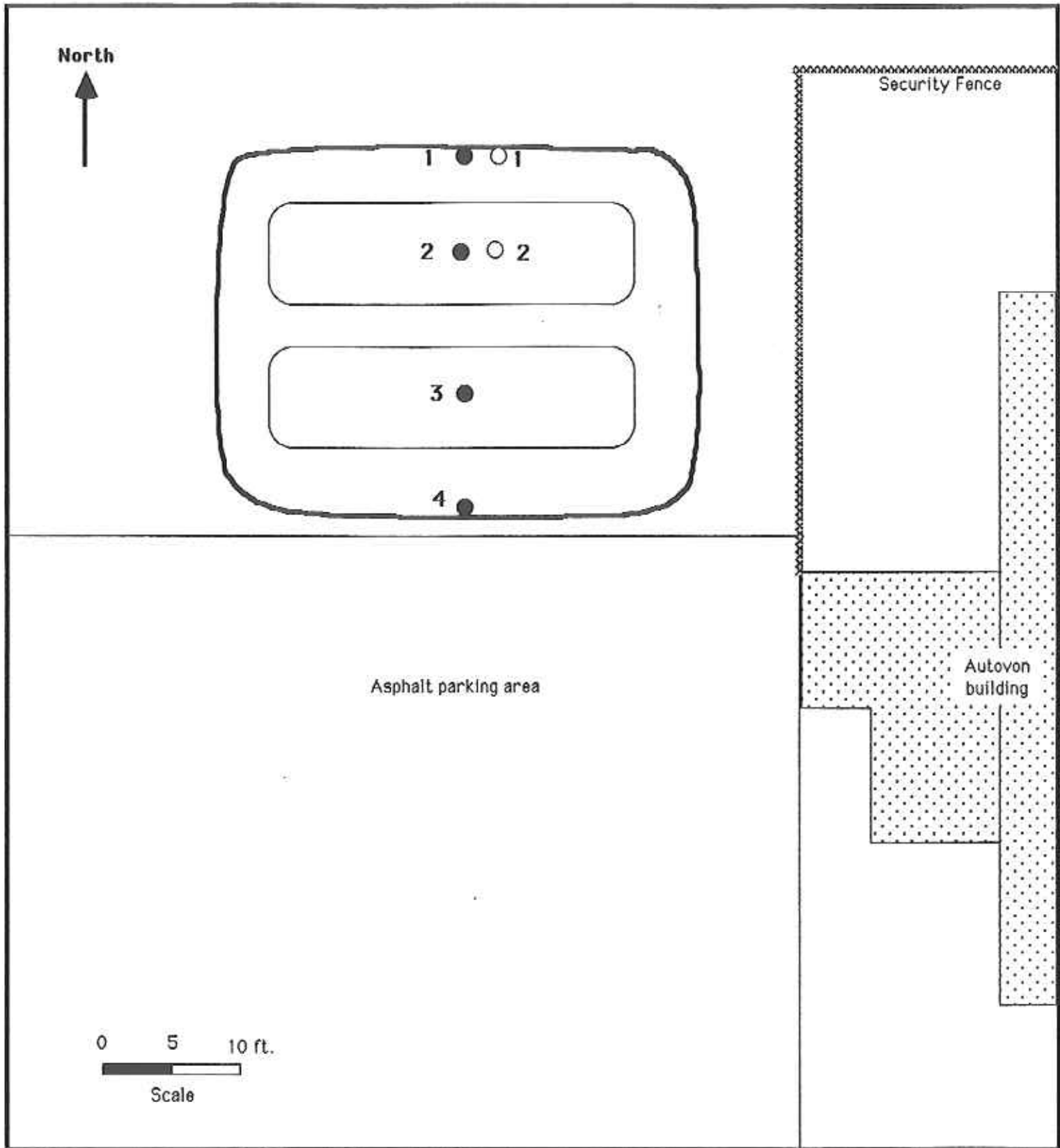
Cascade presently plans to install a new double-walled steel UST in the excavation. Due to the size of the excavation and the inclement weather in the near future, the rising water table is certain to present an installation obstacle and incur excessive dewatering costs to Cascade Autovon should the installation not proceed as soon as possible.

Therefore, B & C requests an expeditious approval in regard to this proposal. A written confirmation would be greatly appreciated in order for the installation of the new tank to proceed. If you have any questions, please contact me.

Sincerely,  
B & C EQUIPMENT CO.




Barry D. DePan  
Environmental Specialist



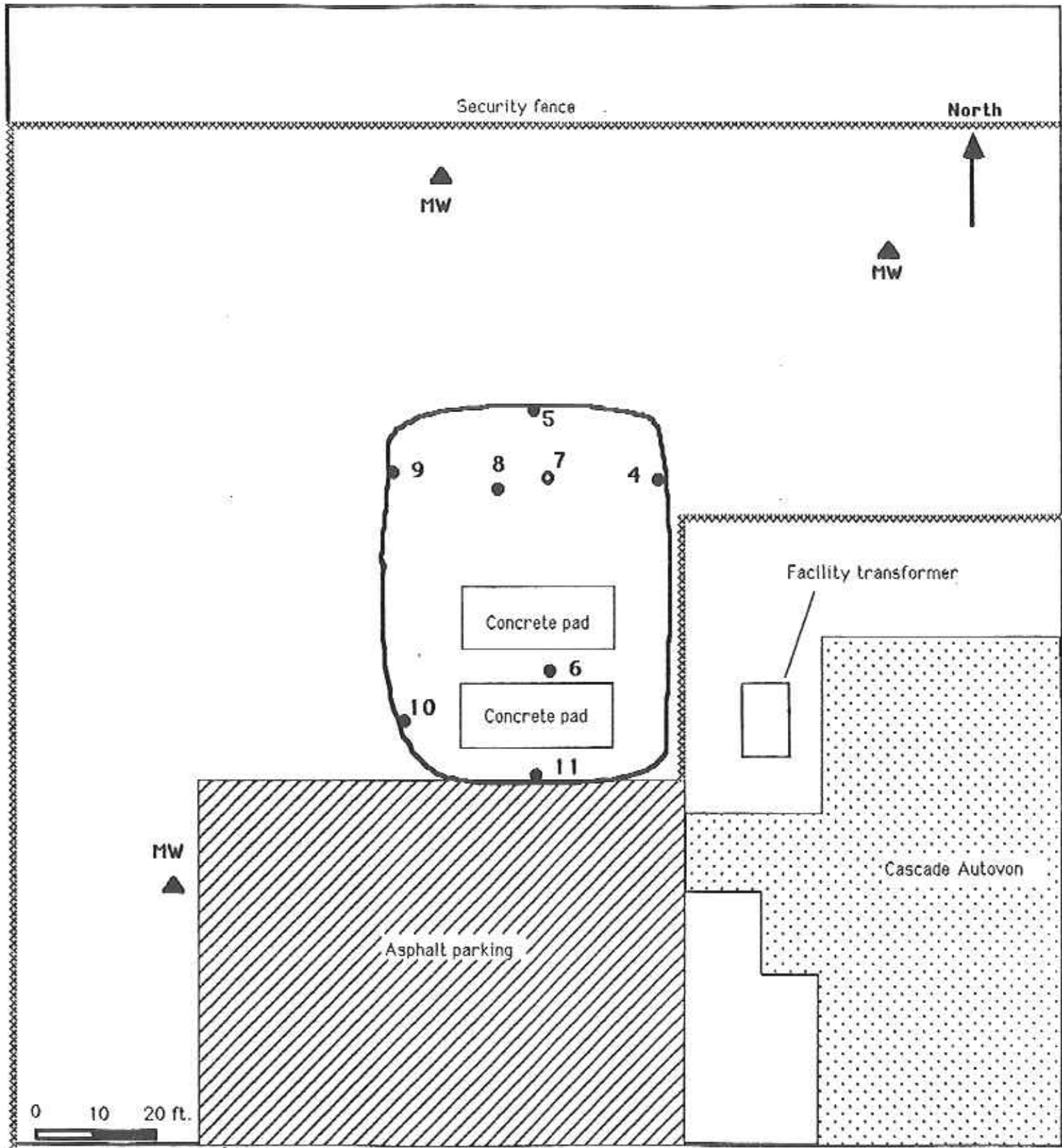
Cascade Autovon Company  
 12727 412th Ave. SE  
 North Bend, WA 98045

**Figure 1**

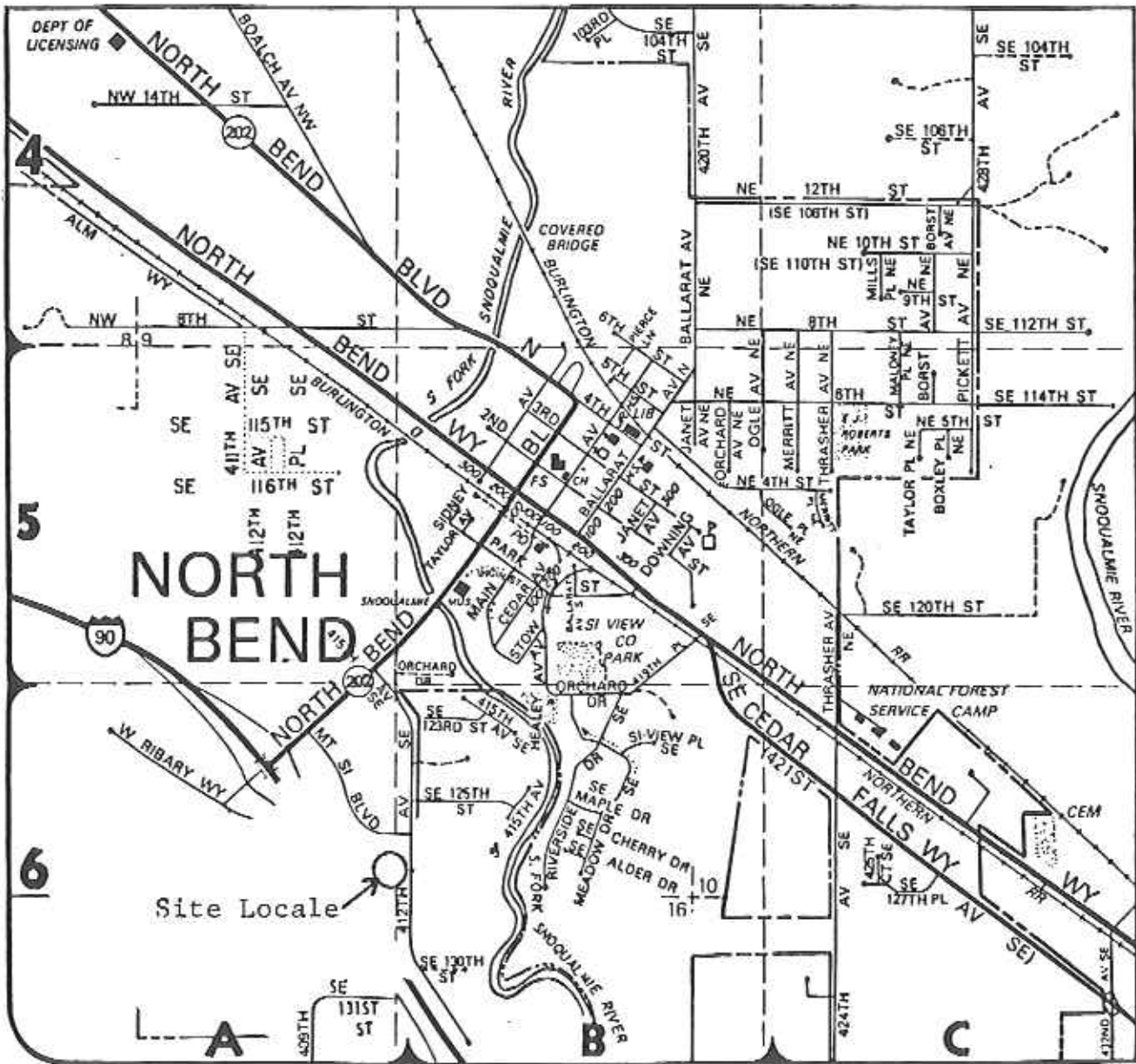
<i>KEY</i>	
●	Sample location and number; samples collected 6/4/91.
○	Sample location and number; samples collected 6/13/91.

 <b>B &amp; C</b>
<b>Job # 1341</b>
<b>Date: 6/18/91</b>
Barry DePan





Cascade Autovon Co. 12727 412th Ave.S.E. North Bend, WA 98045  Figure 1	<b>KEY</b>		<b>B &amp; C</b>
	●	Soil samples collected 10/18/91	<b>Job # 1342</b>
	○	Groundwater recharge sample collected 10/18/91	<b>Date: 11/9/91</b>
▨	Asphalt	Barry DePan	
▲	Proposed monitor well locations (MW)		



Vicinity Map

Figure 3

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

PROJ NO <b>1341</b>	PROJECT NAME <b>Cascade Autovon</b>				SAMPLER <b>Barry De Pan</b>	ANALYSIS TYPE REQUESTED											
	ADDRESS <b>12727 412th Ave. SE North Bend, WA 98045</b>																
SAMPLE NUMBER	DATE	TIME	WATER SOIL	ICED	SOURCE OF SAMPLE	TANK SIZE: DIRECTION: DEPTH:	BTEX	% Gasoline	TPH	TPH (1R)	Total Pb	TCLP Cd, Cr, Pb	TCLP Metals (8)	PCB's	Chlor. Solv.	Flashpoint	Total Halogenated Compounds
							602/8020		8015 Modified	418.1							
1	6/4/91	13:30	✓	✓	N tank - N sidewall	9'			✓								
2	6/4/91	12:35	✓	✓	N tank - bottom center	11'			✓								
3	6/4/91	2:15	✓	✓	S tank - bottom center	11'			✓								
4	6/4/91	2:20	✓	✓	S tank - S sidewall	9'			✓								
Requested by: <b>Barry D. De Pan</b>	Date: <b>6/4/91</b>	Time: <b>4:15</b>	Received by:														
Requested by:	Date:	Time:	Received by:														
Requested by:	Date:	Time:	Received by:														
Please FAX results! <span style="float: right;">                     RUSH    YES    <u>NO</u> </span>																	
B & C EQUIPMENT CO, 20320 80th Ave. S. Kent, WA 98032 (206) 872-8890 (800) 822-0084 FAX (206) 872-8967																	

# 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

Date: June 7, 1991

Report On: Analysis of Soil

Lab No.: 17980

IDENTIFICATION:

Samples Received on 06-05-91

Project: 1341 Cascade Autovon

ANALYSIS:

<u>Lab Sample No.</u>	<u>Client ID</u>	<u>Total Petroleum Fuel Hydrocarbons, mg/kg</u>
1	1	< 10.0
2	2	< 10.0
3	3	1,000 Diesel
4	4	< 10.0

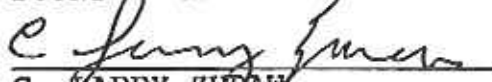
\*TPH by EPA SW-846 Modified Method 8015

Note - Results reported on an as received basis.

SURROGATE RECOVERY

Lab Sample No.	1	2	3	4
TPH by Mod 8015				
1-Chlorooctane	93	97	95	94
Perylene	75	79	83	77

SOUND ANALYTICAL SERVICES

  
C. LARRY ZURAW



# 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: June 18, 1991

Report On: Analysis of Soil

Lab No.: 18147

IDENTIFICATION:

Samples Received on 06-14-91

Project: 134 Cascade Autovon

-----  
ANALYSIS:

<u>Lab Sample No.</u>	<u>Client ID</u>	<u>Total Petroleum Fuel Hydrocarbons, mg/kg</u>
RUSH 1	N. Tank - N. Sidewall	710 as Diesel
RUSH 2	N. Tank - Bottom Center	12,000 as Aged Gas/Diesel

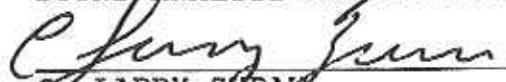
\*TPH by EPA SW-846 Modified Method 8015

Note - Results reported on an as received basis.

<u>Lab Sample No.</u>	<u>SURROGATE RECOVERY, %</u>	
	<u>1</u>	<u>2</u>
TPH by Mod 8015		
1-Chlorooctane	96	163*
Perylene	78	80

\*Surrogate recovery invalid due to matrix interferenc.

SOUND ANALYTICAL SERVICES

  
LARRY ZURAW



# B & C EQUIPMENT CO.

20320 80th Ave. S.  
Kent, Washington 98032  
Office (206) 872-8890  
FAX (206) 872-8987  
1-800-522-0084

## CHAIN OF CUSTODY REQUEST FOR LABORATORY ANALYSIS

PROJ. NO.  
1341-  
903

PROJECT NAME:  
Cascade Autevon  
ADDRESS: 12727 412th Ave SE  
North Bend, WA

SAMPLER  
Barry  
De Pan

SAMPLE NUMBER	DATE	TIME	WATER	SOIL	ICED	SAMPLE LOCATION TANK SIZE TANK PRODUCT	DEPTH	WIPH-HCID	WIPH-G	WIPH-D	WIPH-418.1 Mod.	TPH 418.1	TPH 8015 Mod.	BTEX
9	10/18/91	2:15			✓	NW sidewall	10.5'	✓						✓
10	10/18	3:00			✓	SW sidewall	10.5'	✓						✓
11	10/18	3:15			✓	S sidewall	10.5'	✓						✓

Requisitioned by: Barry D. De Pan Date: 10/21/91 Time: 2:40 Received by: My G L  
 Requisitioned by: MEGAN GLEASON

POSE: TFS



# B & C EQUIPMENT CO.

20320 80th Ave. S.  
 Kent, Washington 98032  
 Office (206) 872-8990  
 FAX (206) 872-8987  
 1-800-822-0084

## CHAIN OF CUSTODY REQUEST FOR LABORATORY ANALYSIS

<b>PROJ. NO.</b> 1341-903	<b>PROJECT NAME:</b> Cascade Autovon	<b>SAMPLER</b> Barry DePan
<b>ADDRESS:</b> 12727 41st Ave SE North Bend, WA 98045		

SAMPLE NUMBER	DATE	TIME	WATER	FIL	ICED	SAMPLE LOCATION TANK SIZE TANK PRODUCT	DEPTH	WIPH-HCID	WIPH-G	WIPH-D	WIPH-418.1 Mod.	TPH 418.1	TPH 8015 Mod.	BTEX
1	10/16/91	2:30	✓	✓	✓	Excavate soil pile * Composite	6"	✓						✓
2	10/16	3:00	✓	✓	✓	Excavated soil pile * Composite	6"	✓						✓
3	10/16	3:30	✓	✓	✓	Excavated soil pile * Composite	6"	✓						✓
4	10/18/91	11:00	✓	✓	✓	NE sidewall	10.5'	✓						✓
5	10/18	11:30	✓	✓	✓	N sidewall	10.5'	✓						✓
6	10/18	1:30	✓	✓	✓	Bottom center (S end) Between tank pads	12'	✓						✓
7	10/18	1:40	✓	✓	✓	Ground water recharge N end - center	10.5'	✓						✓
8	10/18	1:45	✓	✓	✓	Bottom center (N end)	13.5'	✓						✓

<b>Revised by:</b> Barry DePan	<b>Date:</b> 10/21/91	<b>Time:</b> 2:40	<b>Received by:</b> M. G. LEASON
<b>Revised by:</b>			

ROSE: YES **NO**



# Laucks <sup>84</sup> years

## 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# : 91-10-A08  
DATE RECEIVED : 10/21/91  
DATE OF REPORT: 11/05/91  
CLIENT JOB ID : Project No. 1341-903

ATTN :

Work ID : Cascade Autovan  
Taken By : Client  
Transported by: Hand Delivered  
Type : Soil/Water

### SAMPLE IDENTIFICATION:

	Sample Description	Collection Date
01	#1 Excavator Soil Pile	10/16/91 02:30
02	#2 Excavated Soil Pile	10/16/91 03:00
03	#3 Excavated Soil Pile	10/16/91 03:30
04	#4 NE Sidewall	10/18/91 11:00
05	#5 N Sidewall	10/18/91 11:30
06	#6 Bottom Center (S end)	10/18/91 01:30
07	#7 Ground Water Recharge	10/18/91 01:40
08	#8 Bottom Center (N End)	10/18/91 01:45
09	#9 NW Sidewall	10/18/91 02:15
10	#10 SW Sidewall	10/18/91 03:00
11	#11 S Sidewall	10/18/91 03:15
12	Method Blank	N/A
13	Method Blank	N/A

### FLAGGING:

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

### COMMENTS ON PURGEABLE AROMATICS (BTEX):

Samples 9110A08-04, -05, -06, and -11 had one (Trichlorobenzene) of two surrogates outside the control limits due to matrix interference. This did not affect the results.

Sample 9110A08-01 had one (Bromofluorobenzene) of two surrogates outside the control limits due to matrix interference. This did not affect the results.



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.

# Laucks <sup>84</sup> years

## Testing Laboratories, Inc.

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

Chemistry Microbiology and Technical Services

Lab Sample ID : 9110A08-01 Date Collected: 10/16/91  
Client Sample ID: #1 Excavator Soil Pile Date Received : 10/21/91

-----  
Total Solids: 92 %  
-----

WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	62	20 mg/kg DB
Diesel Range.....	8700	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	575	50	150
2-Fluorobiphenyl.....	22.8	50	150
p-Terphenyl.....	95.0	50	150

Comments: Although the sample gave a result in the gasoline range, there was no pattern recognition for gasoline. There was some pattern recognition when compared to the diesel standard. This may be due to "weathering" of the sample. Two surrogates were out of control due to matrix interference.



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# Laucks <sup>84</sup> years

## Testing Laboratories, Inc.

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

Chemistry, Microbiology and Technical Services

REPORT ON SAMPLE: 9110A08-01B  
 Client Sample ID: #1 Excavator Soil Pile

Date Received	: 10/21/91	Collection Date	: 10/16/91
Date Extracted	: N/A	Date Analyzed	: 10/23/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	4.0 U	4	10/23/91	10/23/91
Toluene.....	120	4	10/23/91	10/23/91
Ethylbenzene.....	91	4	10/23/91	10/23/91
Total xylenes.....	570	4	10/23/91	10/23/91

### Surrogate recovery report for sample 9110A08-01B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	157	20	160
p-Bromofluorobenzene .....	197.3 *	62	117



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# Laucks <sup>84</sup> years

## Testing Laboratories, Inc.

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

Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9110A08-02  
Client Sample ID: #2 Excavated Soil Pile

Date Collected: 10/16/91  
Date Received : 10/21/91

-----  
Total Solids: 88 %

-----  
WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	20 U	20 mg/kg DB
Diesel Range.....	1100	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	55.0	50	150
2-Fluorobiphenyl.....	280	50	150
p-Terphenyl.....	105	50	150

Comments: There was some pattern recognition when compared to the diesel standard, this may be due to "weathering" effects of the sample. One of the surrogates was out of control due to matrix interference from the sample.



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Chemistry, Microbiology and Technical Services

REPORT ON SAMPLE: 9110A08-02B  
 Client Sample ID: #2 Exavated Soil Pile

Date Received	: 10/21/91	Collection Date	: 10/16/91
Date Extracted	: N/A	Date Analyzed	: 10/23/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	5.0 U	5	10/23/91	10/23/91
Toluene.....	5.0 U	5	10/23/91	10/23/91
Ethylbenzene.....	5.0 U	5	10/23/91	10/23/91
Total xylenes.....	7.9	5	10/23/91	10/23/91

### Surrogate recovery report for sample 9110A08-02B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	149	20	160
p-Bromofluorobenzene .....	83.3	62	117



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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9110A08-03  
Client Sample ID: #3 Excavated Soil Pile

Date Collected: 10/16/91  
Date Received : 10/21/91

-----  
Total Solids: 89 %  
-----

### WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	32	20 mg/kg DB
Diesel Range.....	1100	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	90.0	50	150
2-Fluorobiphenyl.....	225	50	150
p-Terphenyl.....	110	50	150

Comments: Although the sample gave a result in the gasoline range, there was no pattern recognition for gasoline. There was some pattern recognition when compared to the diesel standard. This may be due to "weathering" of the sample. One surrogate was out of control due to matrix interference.



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-03B  
 Client Sample ID: #3 Excavated Soil Pile

Date Received	: 10/21/91	Collection Date	: 10/16/91
Date Extracted	: N/A	Date Analyzed	: 10/23/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	4.0 U	4	10/23/91	10/23/91
Toluene.....	4.0 U	4	10/23/91	10/23/91
Ethylbenzene.....	4.0 U	4	10/23/91	10/23/91
Total xylenes.....	18	4	10/23/91	10/23/91

### Surrogate recovery report for sample 9110A08-03B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	147	20	160
p-Bromofluorobenzene .....	83.3	62	117



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-04B  
Client Sample ID: #4 NE Sidewall

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 10/23/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	4.0 U	4	10/23/91	10/23/91
Toluene.....	4.0 U	4	10/23/91	10/23/91
Ethylbenzene.....	16	4	10/23/91	10/23/91
Total xylenes.....	120	4	10/23/91	10/23/91

### Surrogate recovery report for sample 9110A08-04B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	185 *	20	160
p-Bromofluorobenzene .....	94.0	62	117



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Chemistry, Microbiology and Technical Services

Lab Sample ID : 9110A08-05  
Client Sample ID: #5 N Sidewall

Date Collected: 10/18/91  
Date Received : 10/21/91

-----  
Total Solids: 88 %  
-----

-----  
WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	20 U	20 mg/kg DB
Diesel Range.....	110	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	55.0	50	150
2-Fluorobiphenyl.....	105	50	150
p-Terphenyl.....	100	50	150

Comments: There was some pattern recognition when compared to diesel standard. This may be due to "weathering" of the sample.



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Chemistry Microbiology and Technical Services

REPORT ON SAMPLE: 9110A08-05B  
 Client Sample ID: #5 N Sidewall

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 10/23/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	5.0 U	5	10/23/91	10/23/91
Toluene.....	5.0 U	5	10/23/91	10/23/91
Ethylbenzene.....	5.0 U	5	10/23/91	10/23/91
Total xylenes.....	7.8	5	10/23/91	10/23/91

### Surrogate recovery report for sample 9110A08-05B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	220 *	20	160
p-Bromofluorobenzene .....	84.3	62	117



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Chemistry Microbiology and Technical Services

Lab Sample ID : 9110A08-06 Date Collected: 10/18/91  
Client Sample ID: #6 Bottom Center (\$ end) Date Received : 10/21/91

-----  
Total Solids: 73 %  
-----

WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	20 U	20 mg/kg DB
Diesel Range.....	50 U	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	30.0	50	150
2-Fluorobiphenyl.....	60.0	50	150
p-Terphenyl.....	70.0	50	150

Comments: One of three surrogates was out of control. This did not effect the results.



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-06B  
 Client Sample ID: #6 Bottom Center (S end)

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 10/23/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	6.0 U	6	10/23/91	10/23/91
Toluene.....	6.0 U	6	10/23/91	10/23/91
Ethylbenzene.....	6.0 U	6	10/23/91	10/23/91
Total xylenes.....	6.0 U	6	10/23/91	10/23/91

### Surrogate recovery report for sample 9110A08-06B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	168 *	20	160
p-Bromofluorobenzene .....	83.8	62	117



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Chemistry Microbiology and Technical Services

Lab Sample ID : 9110A08-07 Date Collected: 10/18/91  
Client Sample ID: #7 Ground Water Recharge Date Received : 10/21/91

-----  
WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	500 U	500 ug/L
Diesel Range.....	8500	1200 ug/L

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	90.0	50	150
2-Fluorobiphenyl.....	115	50	150
p-Terphenyl.....	100	50	150

Comments: There was some pattern recognition when compared to the diesel standard, this may be due to "weathering" effects on the sample.



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-07B  
 Client Sample ID: #7 Ground Water Recharge

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 11/23/91
Test Code	: BTEX_W	Test Method	: SW 8020/EP602

Report Units : ug/L

Compound	Result	SOL	Analysis Date	Confirmation Date
Benzene.....	1.0 U	1	11/23/91	11/23/91
Toluene.....	1.0 U	1	11/23/91	11/23/91
Ethylbenzene.....	1.0 U	1	11/23/91	11/23/91
Total xylenes.....	1.0 U	1	11/23/91	11/23/91

Surrogate recovery report for sample 9110A08-07B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
Bromofluorobenzene .....	89	78	119
1,2,3-Trichlorobenzene ...	126	61	145



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Chemistry, Microbiology and Technical Services

Lab Sample ID : 9110A08-08 Date Collected: 10/18/91  
Client Sample ID: #8 Bottom Center (N End) Date Received : 10/21/91

-----  
Total Solids: 88 %  
-----

WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	20 U	20 mg/kg DB
Diesel Range.....	50 U	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	75.0	50	150
2-Fluorobiphenyl.....	100	50	150
p-Terphenyl.....	105	50	150



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-08B  
 Client Sample ID: #8 Bottom Center (N End)

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 11/24/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	5.0 U	5	11/24/91	11/24/91
Toluene.....	5.0 U	5	11/24/91	11/24/91
Ethylbenzene.....	5.0 U	5	11/24/91	11/24/91
Total xylenes.....	5.0 U	5	11/24/91	11/24/91

### Surrogate recovery report for sample 9110A08-08B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	116	20	160
p-Bromofluorobenzene .....	102.0	62	117



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Chemistry Microbiology and Technical Services

Lab Sample ID : 9110A08-09  
Client Sample ID: #9 NW Sidewall

Date Collected: 10/18/91  
Date Received : 10/21/91

-----  
Total Solids: 70 %  
-----

WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	20 U	20 mg/kg DB
Diesel Range.....	550	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	55.0	50	150
2-Fluorobiphenyl.....	145	50	150
p-Terphenyl.....	95.0	50	150

Comments: There was some pattern recognition when compared to the diesel standard. This may be due to "weathering" of the sample.



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-09B  
Client Sample ID: #9 NW Sidewall

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 11/24/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	5.0 U	5	11/24/91	11/24/91
Toluene.....	5.0 U	5	11/24/91	11/24/91
Ethylbenzene.....	5.0 U	5	11/24/91	11/24/91
Total xylenes.....	5.0 U	5	11/24/91	11/24/91

### Surrogate recovery report for sample 9110A08-09B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	124	20	160
p-Bromofluorobenzene .....	78.5	62	117



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Chemistry, Microbiology and Technical Services

Lab Sample ID : 9110A08-10  
Client Sample ID: #10 SW Sidewall

Date Collected: 10/18/91  
Date Received : 10/21/91

-----  
Total Solids: 92 %  
-----

WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	24	20 mg/kg DB
Diesel Range.....	2000	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	90.0	50	150
2-Fluorobiphenyl.....	395	50	150
p-Terphenyl.....	110	50	150

Comments: Although the sample gave a result in the gasoline range, there was no pattern recognition for gasoline. There was some pattern recognition when compared to the diesel standard. This may be due to "weathering" of the sample. One surrogate was out of control due to matrix interference.



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-10B  
Client Sample ID: #10 SW Sidewall

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 11/24/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	4.0 U	4	11/24/91	11/24/91
Toluene.....	4.0 U	4	11/24/91	11/24/91
Ethylbenzene.....	4.0 U	4	11/24/91	11/24/91
Total xylenes.....	15	4	11/24/91	11/24/91

### Surrogate recovery report for sample 9110A08-10B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	150	20	160
p-Bromofluorobenzene .....	82.5	62	117



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Chemistry, Microbiology, and Technical Services

Lab Sample ID : 9110A08-11  
Client Sample ID: #11 S Sidewall

Date Collected: 10/18/91  
Date Received : 10/21/91

-----  
Total Solids: 71 %  
-----

-----  
WTPH-HCID Results:

Prep Date: 10/22/91  
Analysis Date: 10/22/91

	Result	SDL
Gasoline Range.....	20 U	20 mg/kg DB
Diesel Range.....	50 U	50 mg/kg DB

Surrogate recoveries	% Rec	LCL	UCL
Bromofluorobenzene.....	80.0	50	150
2-Fluorobiphenyl.....	100	50	150
p-Terphenyl.....	100	50	150



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Chemistry, Microbiology, and Technical Services

REPORT ON SAMPLE: 9110A08-11B  
 Client Sample ID: #11 S Sidewall

Date Received	: 10/21/91	Collection Date	: 10/18/91
Date Extracted	: N/A	Date Analyzed	: 11/24/91
Test Code	: BTEX_S	Test Method	: SW8020

Report Units : ug/kg DB

Compound	Result	SDL	Analysis Date	Confirmation Date
Benzene.....	6.0 U	6	11/24/91	11/24/91
Toluene.....	6.0 U	6	11/24/91	11/24/91
Ethylbenzene.....	6.0 U	6	11/24/91	11/24/91
Total xylenes.....	6.0 U	6	11/24/91	11/24/91

### Surrogate recovery report for sample 9110A08-11B

Surrogate	Percent Recovery	Limits:	
		Min.	Max.
1,2,3-Trichlorobenzene ...	171 *	20	160
p-Bromofluorobenzene .....	83.5	62	117



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