



SW ( 40010943  
102326 KB

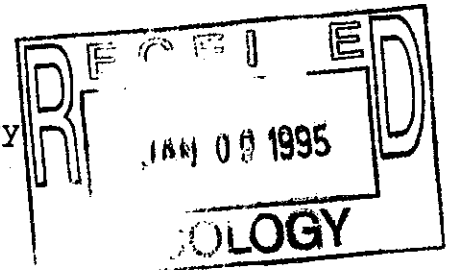
**BISON ENVIRONMENTAL NORTHWEST, INC.**

200 South 333rd Street • Northmark Bldg • Suite 120 • Federal Way, WA 98003 • 206/838-7261 • 206/927-2610

December 7, 1994

Mr. Dale Schuman  
Bonnevillle, Viert, Morton, & McGoldrick  
820 "A" Street, Suite 600  
Tacoma, Washington 98401

RE: Independent Remedial Action Report Summary  
and Disposal Certificate  
Walker Chevrolet USTs  
633 Division Avenue  
Tacoma, WA  
Project# 94481



Dear Mr. Schuman:

We have enclosed the completed Independent Remedial Action Report Summary and Disposal Certificate for the petroleum-contaminated soil removed from Walker Chevrolet. This soil was removed from the property along with 10 Underground Storage Tanks (USTs) during July through September of 1994. Please note that the site does not meet cleanup levels specified in the Model Toxics Control Act (MTCA) throughout the property, due to the presence of a limited quantity of contaminated soil beneath the building slab in the paint booth. To avoid the risk of structural damage, we do not recommend remedial action for the paint booth at this time. This issue is discussed in detail in our Phase 2 reports. The site does meet MTCA cleanup levels around the USTs which were removed.

Copies of this correspondence will be forwarded to the Washington Department of Ecology and Pierce County Health Department for their records.

Sincerely,

A handwritten signature in cursive script, appearing to read "Henry Perrin".

Henry Perrin  
Environmental Engineer



---

**SAND & GRAVEL**

3120 Freeman Road East  
Puyallup, Washington 98371-1838  
Phone: (206) 922-7710

Mike & Kathy Kelley

November 11, 1994

NOV 11 1994

Bison Environmental Northwest, Inc.  
200 South 333rd St. Suite 120  
Federal Way, WA 98003-

ATTN: Henry Perrin

---

**D I S P O S A L C E R T I F I C A T E**

During the month of September, 406 cubic yards of contaminated soil was received at our facility for treatment and disposal from Walker Chevrolet, 633 Division Ave, Tacoma. The contaminated soil is bio-remediated to below Washington State standards, then made into topsoil and sold for commercial purposes.

A handwritten signature in cursive script that reads "M.L. Kelley".

OWNER



# Independent Remedial Action Report Summary

This report summary is an important part of the Independent Remedial Action Report. Please complete the summary and submit it with your Independent Remedial Action Report. If this document does not accompany your cleanup report, or if it is not fully completed, your report cannot enter the review process necessary for Ecology to provide you with a "no further action" determination, or to remove your site from the hazardous sites lists.

FOR ECOLOGY USE ONLY			
ERTS No.	TCP ID No.	Date Received	<input type="checkbox"/> NFA <input type="checkbox"/> SHA Referral <input type="checkbox"/> Interim Action <input type="checkbox"/> Emergency Action
LUST No.	U.B.I. No.	Initial Investigation (Date)	
Reviewed by		Total Hours for Review	
Does the cleanup comply with cleanup standards? Yes <input type="checkbox"/> No <input type="checkbox"/>		Total Fee	

Please Print Clearly or Type

General Information		Phone
Name of Site Owner	Walker Chevrolet	206-627-3111
Address	633 Division Ave, Tacoma, WA	98403 Pierce
Authorized Contact	Dave Shaw	627-3111
Name of Facility Operator	Same	
Address		
Authorized Contact		
Name of Consultant	Henry Perrin	206-838-7261
Name of Firm	Bison Environmental NW	
Address	200 S. 333rd St, Ste 120 Federal Way, WA	98003
Please indicate which of the above persons completed this report. If the report was completed by someone other than listed above, please provide their name, address, and a daytime phone. Henry Perrin		

## Report Information

Has a cleanup been conducted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is this a Leaking Underground Storage Tank (LUST) report? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Type of report (check all that apply)	Date release was reported to Ecology
<input checked="" type="checkbox"/> Combined release and independent remedial action report	Approx. June 1994
<input type="checkbox"/> Independent remedial action report	Date cleanup was completed
<input type="checkbox"/> Interim action report	09/12/94
<input type="checkbox"/> Final cleanup action report	

# Facility Information

Site Name

Walker Chevrolet

Other Names (the site may be known as)

Walker Chevrolet North Parking Lot

Site Control Person if other than Owner/Operator. (This must be a person who is on-site during normal working hours and is authorized and qualified to answer questions about the site, or a person who is available during normal business hours and has knowledge about the site and the remediation.)

Name

Phone

Site Mailing Address (or site contact mailing address)

Site Location Address (including zip code)

Closest City

County (where site is located)

Ownership and Operator Type. Complete the table below by checking the appropriate box to identify the type of owner and operator for the facility. (For example, if the property owner is a port district and the operator a private individual, then check the boxes under owner identification column in the municipal, code #2 row, and under the operator identification column in the private party, code #1 row.)

Ownership/Operator Type	Code #	Owner Identification	Operator Identification
Private Party	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Municipal (Public)	2	<input type="checkbox"/>	<input type="checkbox"/>
County	3	<input type="checkbox"/>	<input type="checkbox"/>
Federal	4	<input type="checkbox"/>	<input type="checkbox"/>
State	5	<input type="checkbox"/>	<input type="checkbox"/>
Tribal	6	<input type="checkbox"/>	<input type="checkbox"/>
Mixed	7	<input type="checkbox"/>	<input type="checkbox"/>
Other	8	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	9	<input type="checkbox"/>	<input type="checkbox"/>
Public Entity Acquisition through Bankruptcy	10	<input type="checkbox"/>	<input type="checkbox"/>
Financial Institution Acquisition through Bankruptcy	11	<input type="checkbox"/>	<input type="checkbox"/>

Standard Industrial Classification (SIC) Codes. List all that apply. If none apply, or if you don't know your SIC code, list activities conducted at the site, e.g., automotive repair and maintenance, construction equipment storage, etc.

Automotive Sales and service, former gas stations.

Hazardous Substances Management Practices(s). The hazardous substance(s) cleaned up from the site was the result of which of the following sources, activities, or actions? Please circle all that apply to the facility.

- 1 = Drug Lab
- 2 = Drum
- 3 = A Leaking Impoundment
- 4 = Improper Handling
- 5 = Landfill
- 6 = Land Application

- 7 = Pesticide Application
- 8 = Pesticide Disposal
- 9 = A Spill
- 10 = Storm Drain
- 11 = Leaking Tank: (a) below ground; (b) above ground
- 12 = Unknown

End use of property (circle one)

COMMERCIAL INDUSTRIAL RESIDENTIAL

# Release Information

Date of Release (if known) <i>Unknown</i>	Date of Discovery <i>August 1994</i>	Are there any drinking water systems affected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown <input type="checkbox"/>
If drinking water systems are affected, are the systems public, private, or both? (circle one)		If drinking water systems are affected, has alternate drinking water been provided? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown <input type="checkbox"/>

General Hazardous Substance Categories. Using the contaminants listed below, complete the table.  
(A more detailed description of the contaminants can be found in Appendix C of the guidance.)

Contaminants. For each of the applicable contaminants, enter the appropriate letter designating the status of the contaminants: C = Confirmed or S = Suspended. (Contaminant status definitions are defined in Appendix C of the guidance.)	Affected Media				
	Ground Water	Surface Water	Drinking Water	Soil	Air
1. Halogenated Organic Compounds				C	
2. Metals - Priority Pollutants					
3. Metals - Other					
4. Polychlorinated Bi-Phenyls (PCBs)					
5. Pesticides/Herbicides				C	
6. Unleaded Gas				C	
Leaded Gas				C	
Diesel				C	
Waste Oil					
Heat Fuel					
Other (Specify)					
7. Phenolic Compounds					
8. Non-Halogenated Solvents					
9. Dioxins					
10. Polynuclear Aromatic Hydrocarbons (PAHs)					
11. Reactive Wastes					
12. Corrosive Wastes					
13. Radioactive Wastes					
14. Conventional Contaminants Organics					
15. Conventional Contaminants Inorganics					
16. Base/Neutral Organic Compounds					
17. Asbestos					

## Cleanup Information

Indicate cleanup level methods used by completing Table 5-A below. (check all that apply)

TABLE 5-A	Soil	Ground Water	Air	Surface Water
Method A	<input checked="" type="checkbox"/>			
B				
C				
Have these levels been met throughout the site? (circle one)	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>

Indicate the treatment methods used by completing Tables 5B - 5D below (check all that apply) (See Appendix D)

TABLE 5-B	Destruction or Detoxification				Media Transfer		
	Carbon Adsorption <sup>1</sup>	Biological Treatment	Chemical Destruction	Incineration	Air Stripping/Air Sparging	Aeration/Vapor Extraction	Thermal Desorption
Soil	-NA-	<input checked="" type="checkbox"/>			-NA-		-NA-
Ground Water				-NA-		-NA-	-NA-
Surface Water				-NA-		-NA-	-NA-
Air		-NA-			-NA-		-NA-
Wastes	-NA-						-NA-

<sup>1</sup> Carbon followed by regeneration; use of granular activated carbon followed by landfilling would be classified in these tables as volume reduction and off-site landfill

Cleanup Information (continued)

**TABLE 5-C**

	Immobilization		Reuse/Recycling <sup>2</sup>	Separation/Volume Reduction		Physical Separation <sup>3</sup>
	Vitrification	Solidification/Stabilization	Specify	Solvent Extraction	Soil Washing	
Soil						
Ground Water	-NA-	-NA-		-NA-	-NA-	
Surface Water	-NA-	-NA-		-NA-	-NA-	
Wastes						

<sup>2</sup>For example, reuse of free petroleum product recovered in a pump and treat system.  
<sup>3</sup>For example, oil/water separators.

**TABLE 5-D**

	Land Disposal/Containment		Institutional Controls	Others
	Containment or On-site Landfill	Off-site Landfill	Specify	Specify treatment method
Soil				
Ground Water		-NA-		
Surface Water	-NA-	-NA-		
Wastes				

Lust Site Information

Was free product encountered: on ground water? Yes  No  In excavation? Yes  No

Tank ID	Tank Description		Tank Status (Y or N)		
	Product	Size	In Place?	Removed?	Closed in Place?

Environmental Indicators

Answer the following questions as they are applicable to your site:

How many cubic yards of soil have been treated? 406 Where soil treatment was conducted, was it done on-site, off-site or both? (circle one)

Provide the name and address of the facility where soil was treated off-site.  
 Name Fire Sand & Gravel  
 Address 3120 Freeman Road East  
 State/Zip Puyallup WA 98371-1838

Provide the name and address of the facility where soil was disposed.  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 State/Zip \_\_\_\_\_

How many cubic yards of soil have been disposed of off-site? \_\_\_\_\_  
 (Calculate these quantities of soil while the soil is in place, prior to any excavation and/or treatment.)

If ground water pump and treatment was conducted, how many gallons of ground water have been treated to date? \_\_\_\_\_ gallons

How many years is the ground water extraction system expected to continue in operation? \_\_\_\_\_ years

Corrective Actions for Dangerous Waste Facilities

Does the facility have a dangerous waste identification number?	<input type="checkbox"/> Yes. Specify _____	<input checked="" type="checkbox"/> No
Is the facility a dangerous waste treatment, sludge, or disposal facility?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, check appropriate regulatory status box		
	<input type="checkbox"/> RCRA interim status	
	<input type="checkbox"/> RCRA operating permit	
	<input type="checkbox"/> RCRA post closure permit	
	<input type="checkbox"/> Other, specify _____	



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

~~XXXX Cleannwater.com~~ • PO Box 47775 • Olympia, Washington 98504-7775 • ~~(206) 753-2333~~

September 16, 1994

Bonneville, Viert, Morton, & McGoldrick  
820 "A" Street, Suite 600  
Tacoma, WA 98401

RE: Site Assessment Report  
Walker Chevrolet  
633 Division Avenue  
Tacoma, WA 98403  
Site Number 102326

The Department of Ecology has received your site assessment report regarding the above referenced site. This report meets the requirements for a site assessment as required by Washington's Underground Storage Tank regulations, Chapter 173-360 WAC.

Based on the information provided to the Department of Ecology, proper procedures have been followed with respect to this site assessment at tank closure. It appears from the report that no contamination above the Model Toxics Control Act Cleanup Standards Regulations (Chapter 173-340 WAC) was detected. Therefore, no further action is warranted at this time. This does not exempt you from liability or responsibility for contamination that may not have been discovered or identified during the site assessment/tank closure or for any future problems which might occur at this site.

Please contact me at (206) 407-6264 if you have any questions.

Sincerely,

Sue Simms  
UST Site Manager  
Southwest Regional Office  
Toxics Cleanup Program

cc: Bison Environmental Northwest, Inc.



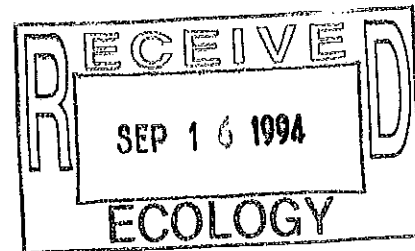
5250  
WEST (W)  
40010943  
102326

**BISON ENVIRONMENTAL NORTHWEST, INC.**

200 South 333rd Street • Northmark Bldg • Suite 120 • Federal Way, WA 98003 • 206/838-7261 • 206/927-2610

September 13, 1994

Mr. Dale Schuman  
Bonnevillle, Viert, Morton, & McGoldrick  
820 "A" Street, Suite 600  
Tacoma, WA 98401



RE: Site Assessment/Independent Remedial Action Report  
Walker Chevrolet - North Parking Lot  
633 Division Avenue  
Tacoma, Washington

Dear Mr. Schuman:

Please find enclosed the Site Assessment/Independent Remedial Action Report for the tank removal project at the Walker Chevrolet North Parking Lot in Tacoma, Washington. A total of 3 underground storage tanks (USTs) and the product lines were removed from the site, and approximately 300 cubic yards of petroleum-contaminated soil were removed from the site and disposed of by Fife Sand and Gravel.

I have enclosed a bound original report and two copies. We will also provide copies to the Washington Department of Ecology and the Pierce County Health Department. Once we receive documentation for the soil disposal, we will complete the WDOE's Independent Remedial Action summary form for the North Parking Lot and Main Building USTs, and forward it along with the soil receipts to yourself, the WDOE, and the Health Department.

If you require additional information or have any questions about our report, please do not hesitate to contact us.

Sincerely,

Henry Perrin  
Environmental Engineer  
WDOE Registered Site Assessor  
Bison Environmental Northwest, Inc.





# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 6, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman


Additional Testing  
Sample ID: S8  
Sample Matrix: Soil  
Date Sampled: 8-26-94  
Date Received: 9-1-94  
Spectra Project: S409-004  
Spectra #9675  
RUSH

Total Metals, mg/Kg

Arsenic	(As)	<5
Barium	(Ba)	62
Cadmium	(Cd)	<0.5
Chromium	(Cr)	21.6
Lead	(Pb)	27
Mercury	(Hg)	<3
Selenium	(Se)	<8
Silver	(Ag)	<0.7

Total Metals testing performed by EPA Method 6010

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 6, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

Additional Testing  
Sample ID: S8  
Sample Matrix: Soil  
Date Sampled: 8-26-94  
Date Received: 9-1-94  
Spectra Project: S409-004  
Spectra #9675  
RUSH

PCB's, mg/Kg

<0.1

Surrogate Recovery - tcm-Xylenc 83%

PCB's by EPA Method 8080

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist

# SPECTRA Laboratories, Inc.

September 6, 1994 2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Sample ID: S8  
Additional Testing  
Sample Matrix: Soil  
Date Sampled: 8-26-94  
Spectra Project: S409-004

Date Received: 9-1-94  
Date Analyzed: 9-2-94  
Dilution: 10  
< = less than  
Spectra #9675 - RUSH

Attn: Dale Schuman

VOLATILE ORGANIC COMPOUNDS			EPA METHOD 8260		
Compound	CAS#	ug/Kg	Compound	CAS#	ug/Kg
Acetone	67-64-1	<500	trans-1,2-Dichloroethene	156-60-5	<50
Benzene	71-43-2	<50	1,2-Dichloropropane	78-87-5	<50
Bromobenzene	108-86-1	<50	1,3-Dichloropropane	142-28-9	<50
Bromochloromethane	74-97-5	<50	2,2-Dichloropropane	594-20-7	<50
Bromodichloromethane	75-27-4	<50	1,1-Dichloropropene	563-58-6	<50
Bromoform	75-25-2	<50	Ethylbenzene	100-41-4	62
Bromomethane	74-83-9	<100	2-Hexanone (MBK)	591-78-6	<500
2-Butanone (MEK)	78-98-3	<500	Hexachlorobutadiene	87-68-3	<50
n-Butylbenzene	104-51-8	<50	Isopropylbenzene	98-82-8	170
sec-Butylbenzene	135-98-8	320	p-Isopropyltoluene	99-87-6	430
tert-Butylbenzene	98-06-6	<50	Methylene chloride	75-09-2	<200
Carbon tetrachloride	56-23-5	<50	4-Methyl-2-pentanone (MIBK)	108-10-1	<500
Chlorobenzene	108-90-7	<50	Naphthalene	91-20-3	4,400
Chlorodibromomethane	124-48-1	<50	n-Propylbenzene	103-65-1	730
Chloroethane	75-00-3	<100	Styrene	100-42-5	<50
Chloroform	67-66-3	<50	1,1,1,2-Tetrachloroethane	630-20-6	<50
Chloromethane	74-87-3	<100	1,1,2,2-Tetrachloroethane	79-34-5	<50
2-Chlorotoluene	95-49-8	<50	Tetrachloroethene	127-18-4	<50
4-Chlorotoluene	106-43-4	<50	Toluene	108-88-3	27J
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8	<500	1,2,3-Trichlorobenzene	87-61-6	<50
1,2-Dibromoethane (EDB)	106-93-4	<100	1,2,4-Trichlorobenzene	120-82-1	<50
Dibromomethane	74-95-3	<50	1,1,1-Trichloroethane	71-55-6	<50
1,2-Dichlorobenzene	95-50-1	<50	1,1,2-Trichloroethane	79-00-5	<50
1,3-Dichlorobenzene	541-73-1	<50	Trichloroethene	79-01-6	<50
1,4-Dichlorobenzene	106-46-7	<50	Trichlorofluoromethane	75-69-4	<50
Dichlorodifluoromethane	75-71-8	<100	1,2,3-Trichloropropane	96-18-4	<50
1,1-Dichloroethane	75-34-3	<50	1,2,4-Trimethylbenzene	95-63-6	3,000
1,2-Dichloroethane	107-06-2	<50	1,3,5-Trimethylbenzene	108-67-8	4,300
1,1-Dichloroethene	75-35-4	<50	Vinyl chloride	75-01-4	<100
cis-1,2-Dichloroethene	156-59-2	<50	Total xylenes	---	2,500

CAS# = Chemical Abstract Services Registry Number  
VOA Surrogate Percent Recoveries

Dibromofluoromethane	110%
Toluene-d8	106%
4-Bromofluorobenzene	99%

Sample contains a wide variety of compounds indicative of aromatic hydrocarbons.  
J = Estimated value, result is less than normal reporting limits.

*Richard J. Forrester*  
Richard J. Forrester - Manager, Organic Chemistry



BISON ENVIRONMENTAL NORTHWEST, INC.

NORTHMARK BUILDING  
200 SOUTH 333RD STREET - SUITE 120  
FEDERAL WAY, WASHINGTON 98003

OFFICE: 206/838-7261  
FAX: 206/927-2610

CHAIN OF CUSTODY RECORD  
Page 1 of 1  
Project# 04461-5  
Project Name Walker  
Client SEE  
Results to Henry Lemay

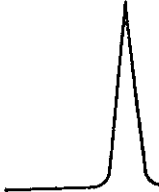
Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
S10	Swall	Ø 408-198-9695	8/31	200	S	WTH-HCTD
S11	S Bottom	9646	8/31	235	I	I
S12	N Bottom	9649	8/31	220	I	I
S13	N Well	9648	8/31	225	I	I
S14	Cock Bottom	9649	8/31	240	I	I

Special Instructions Ball is B.V. MTH M Sample Type: A=Air B=Bulk S=Soil W=Water Other-Describe PUSH

Laboratory Name: Spokane

SIGNATURES: (Name, Company, Date and Time) -  
1. Relinquished by: BENN [Signature] 8/31/94 3:10 PM  
Relinquished by: \_\_\_\_\_  
Received by: [Signature] 8/31/94 3:40 PM  
Received by: \_\_\_\_\_

Delivered by: Hand  UPS  Airborne  Fed X  Other



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

SEP 02 1994

September 1, 1994

Bonneville, Viert, Morton & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

PO #94481-3  
Sample ID: S-10  
Project: Walker  
Sample Matrix: Soil  
Date Sampled: 8-31-94  
Date Received: 8-31-94  
Spectra Project: S408-198  
Spectra #9645  
RUSH

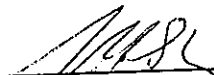
Gasoline Concentration by WTPH-HCID, mg/Kg <20

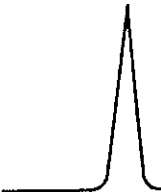
Diesel Concentration by WTPH-HCID, mg/Kg <50  
Surrogate Recovery - p-Terphenyl 46%\*

Sample contains heavier than diesel range hydrocarbons.

\*Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 1, 1994

Bonneville, Viert, Morton & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman


PO #94481-3  
Sample ID: S-14  
Project: Walker  
Sample Matrix: Soil  
Date Sampled: 8-31-94  
Date Received: 8-31-94  
Spectra Project: S408-198  
Spectra #9649  
RUSH

Gasoline Concentration by WTPH-HCID, mg/Kg <20

Diesel Concentration by WTPH-HCID, mg/Kg <50

Heavy Oil Concentration by WTPH-HCID, mg/Kg <100  
Surrogate Recovery - p-Terphenyl 76%

SPECTRA LABORATORIES, INC.



---

Steven G. Hibbs, Chemist



BISON ENVIRONMENTAL NORTHWEST, INC.

NORTHMARK BUILDING  
200 SOUTH 333RD STREET - SUITE 120  
FEDERAL WAY, WASHINGTON 98003

OFFICE: 206/898-7261  
FAX: 206/921-2610

CHAIN OF CUSTODY RECORD  
Project# 9248/15  
Client Walker  
Results to Henry Anna

Page 1 of 1

Date 9/2/15  
Signature [Handwritten Signature]  
10/20/2015

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
S15	S <del>Rd</del> Rothen	02/12	9/2	1:50	S	9/8.1 1.0/10 <u>11</u>
S16	S <del>Rd</del> Rothen	02/15	9/2	1:50	S	580 Clean ✓
S17	S well 02	12/1			S	Clean ✓
S18	S well 02	5/1			S	Clean ✓
U9	S well 02	4/1			S	Clean ✓

Sample Type: A-Air B-Bulk S-Soil W-Water

Special Instructions: Reside

Laboratory Name: Speck

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by: BENNY [Signature] 9/2 3:55  
 2. Relinquished by: \_\_\_\_\_  
 Received by: [Signature] 9-2-15  
 Received by: \_\_\_\_\_

Delivered by: Hand \_\_\_\_\_ UPS \_\_\_\_\_ Airborne \_\_\_\_\_ Fed X \_\_\_\_\_ Other \_\_\_\_\_

  
**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

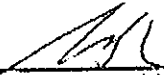
Attn: Dale Schuman

Sample ID: S15  
Project: 94481-3  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-018  
Spectra #9757  
RUSH

Diesel Concentration by WTPH-HCID, mg/Kg <50  
Surrogate Recovery - p-Terphenyl 61%

Sample contains gasoline range and heavier than diesel range hydrocarbons; gasoline range contamination appears to be similar to mineral spirits.

SPECTRA LABORATORIES, INC.


  
Steven G. Hibbs, Chemist



SEP-13-1994 14:30 FROM (

TO

9272610 P.02



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

Sample ID: S16  
Project: 94481-3  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-018  
Spectra #9758  
RUSH

Diesel Concentration by WTPH-HCID, mg/Kg  
Surrogate Recovery - p-Terphenyl 53%

<50

Sample contains gasoline range and heavier than diesel range hydrocarbons; gasoline range contamination appears to be similar to mineral spirits.


SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist

SEP-13-1994 14:31 FROM

TO

9272610 P.03



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman


Sample ID: S17  
Project: 94481-3  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-018  
Spectra #9759  
RUSH

Gasoline Concentration by WTPH-HCID, mg/Kg <20

Diesel Concentration by WTPH-HCID, mg/Kg <50

Heavy Oil Concentration by WTPH-HCID, mg/Kg <100  
Surrogate Recovery - p-Terphenyl 117%


SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist

SEP-13-1994 14:31 FROM

TO

9272610 P.05



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

Sample ID: S19  
Project: 94481-3  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-018  
Spectra #9761  
RUSH

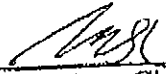
Gasoline Concentration by WTPH-HCID, mg/Kg <20

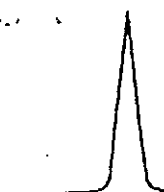
Diesel Concentration by WTPH-HCID, mg/Kg <50

Heavy Oil Concentration by WTPH-HCID, mg/Kg <100  
Surrogate Recovery - p-Terphenyl 47%

\* Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 6, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma, WA 98401

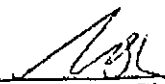
Attn: Dale Schuman

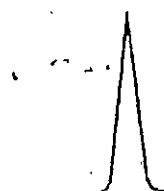
PO #94481-3  
Project: Walker  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-018  
RUSH

<u>Spectra #</u>	<u>ID</u>	<u>Total Petroleum Hydrocarbons, mg/Kg</u>
9757	S15	10,000
9758	S16	560
9759	S17	<20
9760	S18	<20
9761	S19	<20

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 6, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

Method: WTPH-418.1 Mod.  
Sample Matrix: Soil  
Spectra Project: S409-018  
Applies to Spectra #'s  
9757 - 9761

## HYDROCARBON ANALYSIS QUALITY CONTROL RESULTS

---

MS/MSD

Spiked Sample: Method Blank      Date Analyzed: 8-29-94  
Units: mg/Kg

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>% Recovery</u>	<u>Dup. Result</u>	<u>Dup. % Recovery</u>	<u>RPD</u>
TPH	<20	204	189	92	187	92	1

---

### METHOD BLANK


Date Extracted: 9-6-94

Date Analyzed: 9-6-94

Total Petroleum Hydrocarbons, mg/Kg

<20

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist



BISON ENVIRONMENTAL NORTHWEST, INC.

NORTHMARK BUILDING  
 200 SOUTH 333RD STREET - SUITE 120  
 FEDERAL WAY, WASHINGTON 98003

OFFICE: 206/838-7261  
 FAX: 206/927-2610

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project# 1  
 Project Name Wells

Client Lang Dev  
 Results to Lang Dev

Sample #	Location	Sample Description	Date Time		Sample Type	Analysis Required
			9/2	4:15		
570	Path N 17				S	W19, G11.1
						3409-017-
						9756

Special Instructions RSTH

Sample Type: A=Air B=Bulk S=Soil W=Water  
RSTH B71 to B44

Other-Describe


Laboratory Name: Speck

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by: BENW 9/2/94 4:30  
 Received by: Debbie Tucker 9/2/94 4:30

2. Relinquished by: \_\_\_\_\_  
 Received by: \_\_\_\_\_

Delivered by: Hand UPS Airborne \_\_\_\_\_ Fed X \_\_\_\_\_ Other \_\_\_\_\_

  
**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 6, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

PO #94481-3  
Sample ID: S20  
Project: Walker  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-017  
Spectra #9756  
RUSH

Gasoline Concentration by WTPH-HCID, mg/Kg &lt;20


Diesel Concentration by WTPH-HCID, mg/Kg &lt;50

Heavy Oil Concentration by WTPH-HCID, mg/Kg <100  
Surrogate Recovery - p-Terphenyl 77%

SPECTRA LABORATORIES, INC.

---

Steven G. Hibbs, Chemist



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

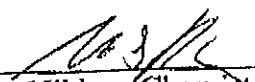
PO #94481-3  
Sample ID: S20  
Project: Walker  
Sample Matrix: Soil  
Date Sampled: 9-2-94  
Date Received: 9-2-94  
Spectra Project: S409-017  
Spectra #9756  
RUSH

Total Petroleum Hydrocarbons, mg/Kg


<20

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist





# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
 PO Box 1533  
 Tacoma WA 98401

Method: WTPH-418.1 Mod.  
 Sample Matrix: Soil  
 Spectra Project: S409-017  
 Applies to Spectra #9756

Attn: Dale Schuman

## HYDROCARBON ANALYSIS QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank  
 Units: mg/Kg

Date Analyzed: 8-29-94

<u>Compound</u>	<u>Sample Result</u>	<u>Spike Amount</u>	<u>Spike Result</u>	<u>% Recovery</u>	<u>Dup. Result</u>	<u>Dup. % Recovery</u>	<u>RPD</u>
TPH	<20	204	189	92	187	92	1

### METHOD BLANK

Date Extracted: 9-6-94  
 Total Petroleum Hydrocarbons, mg/Kg

Date Analyzed: 9-6-94  
 <20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 13, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

Method: WTPH-418.1 Mod.  
Sample Matrix: Soil  
Spectra Project: S409-018  
Applies to Spectra #'s  
9757 - 9761

## HYDROCARBON ANALYSIS QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank  
Units: mg/Kg

Date Analyzed: 8-29-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	BPD
TPH	<20	204	189	92	187	92	1

METHOD BLANK

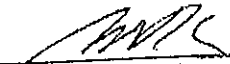
Date Extracted: 9-6-94

Date Analyzed: 9-6-94

Total Petroleum Hydrocarbons, mg/Kg

<20

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist



BISON ENVIRONMENTAL NORTHWEST, INC.

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project# 01481-3

Project Name WALKER Char.

Client

Results to

HENRY PEREIR

NORTHPARK BUILDING  
200 SOUTH 333RD STREET - SUITE 120  
FEDERAL WAY, WASHINGTON 98003

OFFICE: 206/898-7261  
FAX: 206/927-2610

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
S 29	West Wall 10' Not Swall AT 15'		9-8	10:15	Soil	HClO
S 30	West Wall 15' Set North Wall AT 15'		9-8	10:20	Soil	HClD
S 31	SE corner of PIT AT 15-16'		9-8	10:35	Soil	HClD
32	East Wall 20' North of Sample 31	9 15 15'	9-8	10:35	Soil	HClD
S 33	NE corner of PIT AT 15-16'		9-8	10:45	Soil	HClD
S 34	North Wall 20' North of Sample 33	A 15-16'	9-8	1:20	Soil	HClD
S 35	Bottom at 21' North of Sample 34	most Sample	9-8	2:00	Soil	HClD
S 36	Composite Sample of Excavated material					

Sample Type: A=Air B=Bulk S=Soil W=Water

Other-Describe

Special Instructions Resili Bill TO: B.V. M. + MG

Laboratory Name: SPECTRA

SIGNATURES: (Name, Company, Date and Time)

1. Relinquished by: BENNY H. GARDNER 9-8-94 2:25P 2. Relinquished by: \_\_\_\_\_

Received by: Debra Tripp 9-8-94 2:25 Received by: \_\_\_\_\_

Delivered by: Hand \_\_\_\_\_ UPS \_\_\_\_\_ Airborne \_\_\_\_\_ Fed X \_\_\_\_\_ Other \_\_\_\_\_



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 9, 1994

Bonneville, Viert, Morton & McGoldrick  
 P.O. Box 1533  
 Tacoma, WA 98401

Attn: Dale Schuman

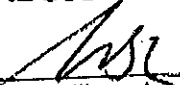
Project: 94481-3  
 Sample Matrix: Soil  
 Date Sampled: 9-8-94  
 Date Received: 9-8-94  
 Spectra Project: S409-040  
 RUSH


## WTPH-HCID, mg/Kg

<u>Spectra #</u>	<u>Sample ID:</u>	<u>Gasoline Concentration</u>	<u>Diesel Concentration</u>	<u>Heavy Oil Concentration</u>	<u>Surrogate Recovery p-Terphenyl</u>
9843	S29	<20	<50	<100	84%
9844	S30	<20	<50	<100	101%
9845	S31	<20	<50	<100	97%
9846	S32	<20	<50	<100	155% *
9847	S33	<20	<50	<100	89%
9849	S35	<20	<50	<100	83%

\* Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.

  
 Steven G. Hibbs, Chemist



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 9, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

Attn: Dale Schuman

Sample ID: S36  
Project: 94481-3  
Sample Matrix: Soil  
Date Sampled: 9-8-94  
Date Received: 9-8-94  
Spectra Project: S409-040  
Spectra #9850  
RUSH

Total Petroleum Hydrocarbons, mg/Kg

210

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist

SEP-09-1994 14:46 FROM

TO

9272610

P.03



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 9, 1994

Bonneville, Viert, Morton & McGoldrick  
P.O. Box 1533  
Tacoma, WA 98401

Attn: Dale Schuman

Sample ID: S34  
Project: 94481-3  
Sample Matrix: Soil  
Date Sampled: 9-8-94  
Date Received: 9-8-94  
Spectra Project: S409-040  
Spectra #9848  
RUSH

Diesel Concentration by WTPH-HCID, mg/Kg

<50

Sample contains gasoline range and heavier than diesel range hydrocarbons.

SPECTRA LABORATORIES, INC.



\_\_\_\_\_  
Steven G. Hibbs, Chemist



BISON ENVIRONMENTAL NORTHWEST, INC.

NORTHMARK BUILDING  
200 SOUTH 33RD STREET - SUITE 120  
FEDERAL WAY, WASHINGTON 98003

OFFICE: 206/838-7261  
FAX: 206/927-2610

Project#  
Project Name  
Client  
Results to

CHAIN OF CUSTODY RECORD  
Page 1 of 1

24118-3  
VALIRON CHEV.

FERRY

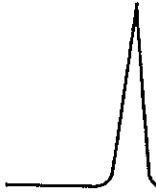
Stog

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
21	16' Bottom of	DI T <sup>North</sup> <sub>West</sub> of #20	9-6	11:25	Soil	<del>STPB</del> HClD
22	20' Bottom of	DI T <sup>North</sup> <sub>West</sub> arm N of #21	9-6	2:45	Soil	<del>STPB</del> HClD
23	Composite of	contaminated remains of Soil	9-6	3:00	Soil	STPB HClD DATA

Special Instructions Sample Type: A-Alr B-Bulk S-Soil W-Water Other-Describe  
PLEASE PRINT MR M J PM # 500 STOR → STADLAN

SIGNATURES: (Name, Company, Date and Time) Laboratory Name: SPECTRA  
 1. Relinquished by: BENNY HARRIS 3:35 P 9-6-94 2. Relinquished by: \_\_\_\_\_  
 Received by: D. L. H. TRICKS 3:35 9-6-94 Received by: \_\_\_\_\_

Delivered by: Hand \_\_\_\_\_ UPS \_\_\_\_\_ Airborne \_\_\_\_\_ Fed X \_\_\_\_\_ Other \_\_\_\_\_



**SPECTRA Laboratories, Inc.**

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 8, 1994

Bonneville, Viert, Morton, & McGoldrick  
PO Box 1533  
Tacoma WA 98401

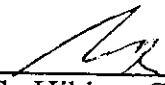
Attn: Dale Schuman

Sample ID: #23  
Project: 94118-3  
Sample Matrix: Soil  
Date Sampled: 9-6-94  
Date Received: 9-6-94  
Spectra Project: S409-028  
Spectra #9807  
RUSH

Diesel Concentration by WTPH-HCID, mg/Kg <50  
Surrogate Recovery - p-Terphenyl 92%

Sample contains gasoline range and heavier than diesel range hydrocarbons; gasoline range contamination appears to be similar to mineral spirits.

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist





# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 12, 1994

Bonneville, Viert, Morton, & McGoldrick  
P.O. Box 1533  
Tacoma, WA 98401

Attn: Dale Schuman

Sample ID: B9-5  
Project: 94481-2  
Sample Matrix: Soil  
Date Sampled: 9-6-94  
Date Received: 9-9-94  
Spectra Project: S409-030  
Spectra #9818  
RUSH (Additional Testing)


Gasoline Concentration by WTPH-HCID, mg/Kg <20

Diesel Concentration by WTPH-HCID, mg/Kg <50

Heavy Oil Concentration by WTPH-HCID, mg/Kg <100  
Surrogate Recovery - p-Terphenyl 42% \*

\* Out of limits due to sample matrix effects

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist

# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 12, 1994

Bonneville, Viert, Morton & McGoldrick  
P.O. Box 1533  
Tacoma, WA 98401

Sample ID: B9-5  
Project: 94481-2  
Sample Matrix: Soil  
Date Sampled: 9-6-94  
Spectra Project: S409-030

Date Received: 9-9-94  
Date Analyzed: 9-9-94  
Dilution: 1  
< = less than  
Spectra #9818 RUSH (Add. Testing)

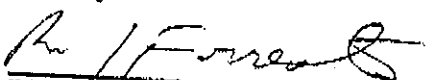
## VOLATILE ORGANIC COMPOUNDS

Compound	CAS#	ug/Kg	Compound	EPA METHOD 8260 CAS#	ug/Kg
Acetone	67-64-1	<50	trans-1,2-Dichloroethene	156-60-5	<5
Benzene	71-43-2	<5	1,2-Dichloropropane	78-87-5	<5
Bromobenzene	108-86-1	<5	1,3-Dichloropropane	142-28-9	<5
Bromochloromethane	74-97-5	<5	2,2-Dichloropropane	594-20-7	<5
Bromodichloromethane	75-27-4	<5	1,1-Dichloropropene	563-58-6	<5
Bromoform	75-25-2	<5	Ethylbenzene	100-41-4	<5
Bromomethane	74-83-9	<10	2-Hexanone (MBK)	591-78-6	<50
2-Butanone (MEK)	78-98-3	<50	Hexachlorobutadiene	87-68-3	<5
n-Butylbenzene	104-51-8	<5	Isopropylbenzene	98-82-8	<5
sec-Butylbenzene	135-98-8	<5	p-Isopropyltoluene	99-87-6	<5
tert-Butylbenzene	98-06-6	<5	Methylene chloride	75-09-2	<20
Carbon tetrachloride	56-23-5	<5	4-Methyl-2-pentanone (MIBK)	108-10-1	<50
Chlorobenzene	108-90-7	<5	Naphthalene	91-20-3	<5
Chlorodibromomethane	124-48-1	<5	n-Propylbenzene	103-65-1	<5
Chloroethane	75-00-3	<10	Styrene	100-42-5	<5
Chloroform	67-66-3	<5	1,1,1,2-Tetrachloroethane	630-20-6	<5
Chloromethane	74-87-3	<10	1,1,2,2-Tetrachloroethane	79-34-5	<5
2-Chlorotoluene	95-49-8	<5	Tetrachloroethene	127-18-4	<5
4-Chlorotoluene	106-43-4	<5	Toluene	108-88-3	<5
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8	<50	1,2,3-Trichlorobenzene	87-61-6	<5
1,2-Dibromoethane (EDB)	106-93-4	<10	1,2,4-Trichlorobenzene	120-82-1	<5
Dibromomethane	74-95-3	<5	1,1,1-Trichloroethane	71-55-6	<5
1,2-Dichlorobenzene	95-50-1	<5	1,1,2-Trichloroethane	79-00-5	<5
1,3-Dichlorobenzene	541-73-1	<5	Trichloroethene	79-01-6	<5
1,4-Dichlorobenzene	106-46-7	<5	Trichlorofluoromethane	75-69-4	<5
Dichlorodifluoromethane	75-71-8	<10	1,2,3-Trichloropropane	96-18-4	<5
1,1-Dichloroethane	75-34-3	<5	1,2,4-Trimethylbenzene	95-63-6	<5
1,2-Dichloroethane	107-06-2	<5	1,3,5-Trimethylbenzene	108-67-8	<5
1,1-Dichloroethene	75-35-4	<5	Vinyl chloride	75-01-4	<10
cis-1,2-Dichloroethene	156-59-2	<5	Total xylenes	--	<5

CAS# = Chemical Abstract Services Registry Number

### VOA Surrogate Percent Recoveries

Dibromofluoromethane	97%
Toluene-d8	100%
4-Bromofluorobenzene	99%

  
Richard J. Forrester  
Manager



# SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

September 12, 1994

Bonneville, Viert, Morton, & McGoldrick  
P.O. Box 1533  
Tacoma, WA 98401

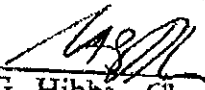
Attn: Dale Schuman

Project: 94481-2  
Sample Matrix: Soil  
Date Sampled: 9-6-94  
Date Received: 9-9-94  
Spectra Project: S409-030  
RUSH (Additional Testing)

<u>Spectra #</u>	<u>ID</u>	<u>Total Petroleum Hydrocarbons, mg/Kg</u>
9815	B5-7.5	2,500
9816	B5-9	4,400

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

SPECTRA LABORATORIES, INC.

  
Steven G. Hibbs, Chemist