U0010943 SW
SW 102326

1/1

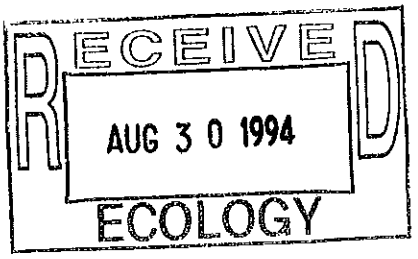
UNDERGROUND STORAGE TANK REMOVAL

SITE ASSESSMENT AND

INDEPENDENT REMEDIAL ACTION REPORT

for

WALKER CHEVROLET
633 DIVISION AVENUE
TACOMA, WASHINGTON 98403



PREPARED FOR:

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

PREPARED BY:

Bison Environmental Northwest, Inc.
200 South 333rd Street #120
Federal Way, Washington 98003

AUGUST 1994

Project # 94481 Confidential, for client use only.

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UNDERGROUND STORAGE TANK REMOVAL
SITE ASSESSMENT AND
REMEDIAL ACTION REPORT

WALKER CHEVROLET

1.0 Executive Summary

Seven underground storage tanks (UST's) along with the associated pump island and product lines, have been removed from the Walker Chevrolet site, located at 633 Division Avenue in Tacoma, Washington. The tanks were located southwest of the main building, as shown in the site plans included in Appendix A. The tanks had been abandoned, and our research suggests that they were installed around 1925, and were used until sometime in the 1940s.

This project included the removal of the following tanks:

Tank	Length (in)	Diameter (in)	Capacity* (gal)	Contents	Condition
1	92	42	550	Waste Oil	Good
2	104	75	2,000	Gasoline+	Fair
3	104	75	2,000	Gasoline+	Fair
4	144	66	2,100	Gasoline+	Good
5	96	42	600	Oily Product	Fair
6	96	42	600	Water#	Fair-Poor
7	48	42	300	Water#	Fair

NOTES: * Calculated maximum capacity based on tank dimensions.
+ Tanks probably contained leaded gasoline based on age.
# Full of water when uncovered. May have contained gasoline.

Owner/Operator: Walker Chevrolet
Site Name : Walker Chevrolet
WDOE Site ID: 102326

The tank removal process was completed by Fife Sand and Gravel, who was responsible for inerting, removal and of-site disposal of the tanks. Prior to inerting, the contents of the tanks were pumped out, and the tanks were cleaned, by Waste Disposal, Inc., of Tacoma, Washington. Bison Environmental Northwest, Inc. was on site to conduct the Site Check/Site Assessment activities.

Overexcavation was conducted at tank 1, pump island, and tanks 4-6 excavations since soils at these locations appeared to be contaminated. The soil is stockpiled in a parking lot owned by

Walker Chevrolet located on the other side of North First Street. The soil is stockpiled on visqueen, covered by visqueen, and bermed with clean fill to avoid contaminant runoff. No groundwater was encountered in any of the excavations.

After tank removal and overexcavation, soil samples were collected from the sides and bottoms of the excavations, and from the stockpiles of soil which had overlaid the USTs ("overburden").

Samples were analyzed for petroleum hydrocarbons using either the WTPH-HCID method or by the WTPH-G method with BTEX distinction. Quantitative analysis was conducted on all samples which had detected hydrocarbon concentrations as reported by the HCID analysis. Selected samples were also analyzed for lead. The results of laboratory analysis indicate that hydrocarbon and lead concentrations in soil remaining in the excavations are lower than "Method A" cleanup levels as specified in the Model Toxics Control Act (MTCA).

In accordance with state regulations, the Washington Department of Ecology (WDOE) was notified that a release has occurred within 24 hours of confirmation by laboratory analysis. However, the contamination has been removed, and we do not recommend any further action other that proper disposal of the stockpiled contaminated soil.

2.0 Site Conditions

The subject site is an automobile dealership located within the Tacoma city limits. Land use in the surrounding area is a mixture of residential and retail development. Topography in the area slopes gently to the north and west. The USTs were located southwest of the dealership building, as shown on the site plans in Appendix A.

3.0 Sampling Plan

The sampling plan for this site included collecting soil samples from below the tanks, from the walls of the excavations, and from the overlying soils. All soil sampling would be conducted in accordance with WDOE guidance documents. Samples would be collected using clean hand tools, placed in containers provided by the project laboratory, and stored in an iced chest on the site and during transport.

The sampling plan was modified to include additional samples required by the Tacoma-Pierce County Health Department, and since contamination was encountered in some areas.

4.0 Tank Removal

Tank removal was completed by Fife Sand and Gravel on July 30 through August 2, 1994. Prior to removal, the tanks were pumped and rinsed by Waste Disposal, Inc., then inerted with dry ice, using two (2) pounds for every 50 gallons of tank volume. Tank removal proceeded after measurements with a combustible gas indicator showed that vapor levels inside the tanks were less than 10 percent of the lower explosive limit.

After removal, holes were punched in the tanks and they were pressure cleaned on site by Waste Disposal, Inc. They were then loaded on a trailer and secured. Proper labels were placed on the tanks, which were then transported off-site by Fife Sand and Gravel for destruction.

5.0 Tank Condition

The USTS were single wall, welded steel tanks without cathodic protection or overfill/spill containment devices. The size, condition, calculated maximum capacity, and last product stored in each tank are shown in the following table:

Tank	Length (in)	Diameter (in)	Capacity* (gal)	Contents	Condition
1	92	42	550	Waste Oil	Good
2	104	75	2,000	Gasoline	Fair
3	104	75	2,000	Gasoline	Fair
4	144	66	2,100	Gasoline	Good
5	96	42	600	Oily Product	Fair
6	96	42	600	Water	Fair-Poor
7	48	42	300	Water	Fair

Varying degrees of corrosion were observed in the tank exteriors, however no holes or defects were noted. Tanks 2, 3, and 4, probably contained leaded gasoline based on their ages. The oily product in tank 5 may have been an aged diesel fuel.

Based on the size, condition, and configuration of the tanks, it is likely that the tanks 5, 6 and 7 were the original tanks for the service station, and tanks 1, 2, 3, and 4 were added at a later date. Tanks 6 and 7 probably were originally used for gasoline, and filled with water when they were abandoned.

Product lines attached to the tanks ran to the pump island. The configuration of the product lines connected to tanks 5, 6, and 7 was extremely complex. One of these tanks may have been added at a later date, requiring rerouting of the product lines.

6.0 Soil Conditions

Soil around and beneath tank 1, which had contained waste oil, exhibited faint odors and some dark discoloration characteristic of heavy oils. The area was overexcavated to a depth of roughly 8 feet. The excavation measured approximately 10 feet by 12 feet. Calculated "in place", and subtracting the volume of the tank, this translates to roughly 30 cubic yards of soil.

The excavation for tanks 2 through 4 was roughly 10 feet deep. Tank 4 was located partially beneath a concrete walk which is owned by Walker Chevrolet. Faint gasoline odors were noted in soils near the bottom of tank 3, and in some of the overlying soils in this area. However, the results of laboratory analysis indicated gasoline, BTEX, and lead concentrations were below MTCA "Method A" cleanup levels, and the soils were returned to this excavation.

Tanks 5 through 7 were removed from an embankment located northwest of a sidewalk in the Division Avenue right-of-way. The embankment sloped down to the northwest. The tanks did not appear to extend into the right-of-way. Soils surrounding the tanks exhibited faint hydrocarbon odors and some dark discolorations. The area was overexcavated to maximum depth of roughly 9 feet relative to the sidewalk. Based on the dimensions of the excavation, we estimate that roughly 40 cubic yards of soil was removed from this area.

Soils beneath the pump island exhibited moderate to strong gasoline odors, and the area was overexcavated to a 5-foot depth. The pump island excavation essentially had two side walls, due to the slope and since it extended into the tank 1 and tank 5 through 7 excavations. Roughly 30 cubic yards of soil were removed from this excavation.

Soils encountered during excavation were brown, slightly gravelly fine-grained sands. The Unified Soil Classification System (ASTM Designation D-2487) identifies this material as group symbol SP and is classified as "Poorly-graded sands and gravelly sands, little or no fines." No groundwater was encountered in any of the excavations.

The excavations were filled with clean fill provided by Fife Sand and Gravel once the results of laboratory analysis were received.

7.0 Laboratory Results

Since several types of petroleum products had been stored on the site, most of the samples were analyzed using the WTPH-HCID test followed by quantitative analysis for any detected petroleum products. The WTPH-G analysis with BTEX distinction was used beneath tanks known to have contained gasoline. Selected samples

were also analyzed for lead. Sample 06, a composite of contaminated soil removed from the tank 1 (waste oil) excavation, was also analyzed for total metals, PCBs, and volatile organic compounds VOCs).

The results of laboratory analysis are summarized in the sample log in Appendix B of this report. The laboratory reports documenting analysis have also been included in Appendix B. Sampling locations are shown in Appendix A.

No petroleum hydrocarbon or lead concentrations which exceeded MTCA "Method A" cleanup levels were reported in any of the samples collected from the final limits of the excavations. Samples of soil removed from the tank 1 and pump island excavations indicated that these soils contain petroleum hydrocarbon concentrations in excess of MTCA cleanup levels. No hydrocarbons were detected in the soil removed from the excavation for tanks 5 through 7.

No concentrations of PCBs, metals, or VOCs which exceeded MTCA cleanup levels were reported in sample 06.

8.0 Conclusions

Based on our observations and the results of laboratory analysis, it appears that a release has occurred on this site. No holes or defects were observed in the USTs, and the releases probably occurred due to overfills and leaks in product lines. All of the contaminated soil appears to have been removed and stockpiled, and no further action is recommended other than proper disposal of this soil. We recommend disposal of the stockpile within the next 3 months. If this is not possible, the pile should be covered with new visqueen every 3 months.

The results of laboratory analysis suggest that as a whole, petroleum concentrations in the 40 cubic yards of soil removed from the tank 5 through 7 excavation were below MTCA cleanup levels. However, this material appeared to contain petroleum products based on our observations, and it is likely that "hot spots", which exceed the cleanup levels, are present in this stockpile. This material could be treated as a "class 2" petroleum-affected soil, suitable for fill in commercial or industrial areas, permitted landfills, or use in road construction.

The remaining 60 cubic yards of soil would be considered "class 3" petroleum-contaminated soil, and should be treated or disposed of by a licensed facility.

9.0 Limitations

This report has been prepared for the exclusive use of the client and their representatives for specific application to this site. The work for this project was conducted in a manner consistent with generally accepted environmental science practices for consultants acting under similar conditions in the area, and in accordance with the terms of the client's request. No other warranty is expressed or implied.

If new information on the site is developed during future environmental studies, Bison Environmental, Inc., should be allowed to review this information, to reevaluate the conclusions of this report, and to provide amendments as required.

10.0 Certificate of Report Integrity

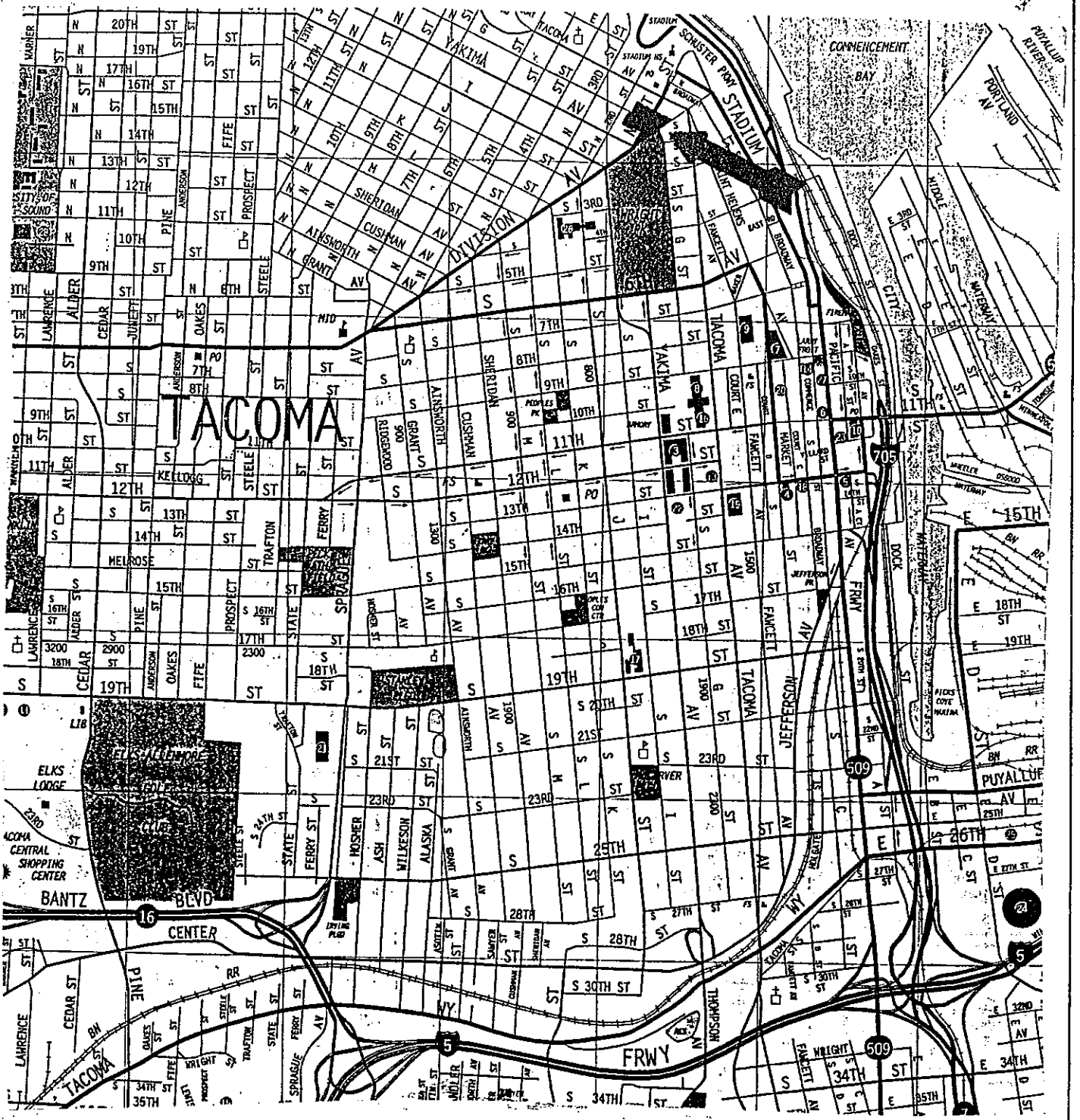
Bison Environmental Northwest, Inc. certifies that this Environmental Site Assessment has been conducted in accordance with industry standards, and to the best of our knowledge, represents an accurate accounting of the environmental condition of the subject property at the time of assessment.

Henry Perrin, Environmental Engineer — 8/18/94
WDOE-Registered UST Site Assessor — Date

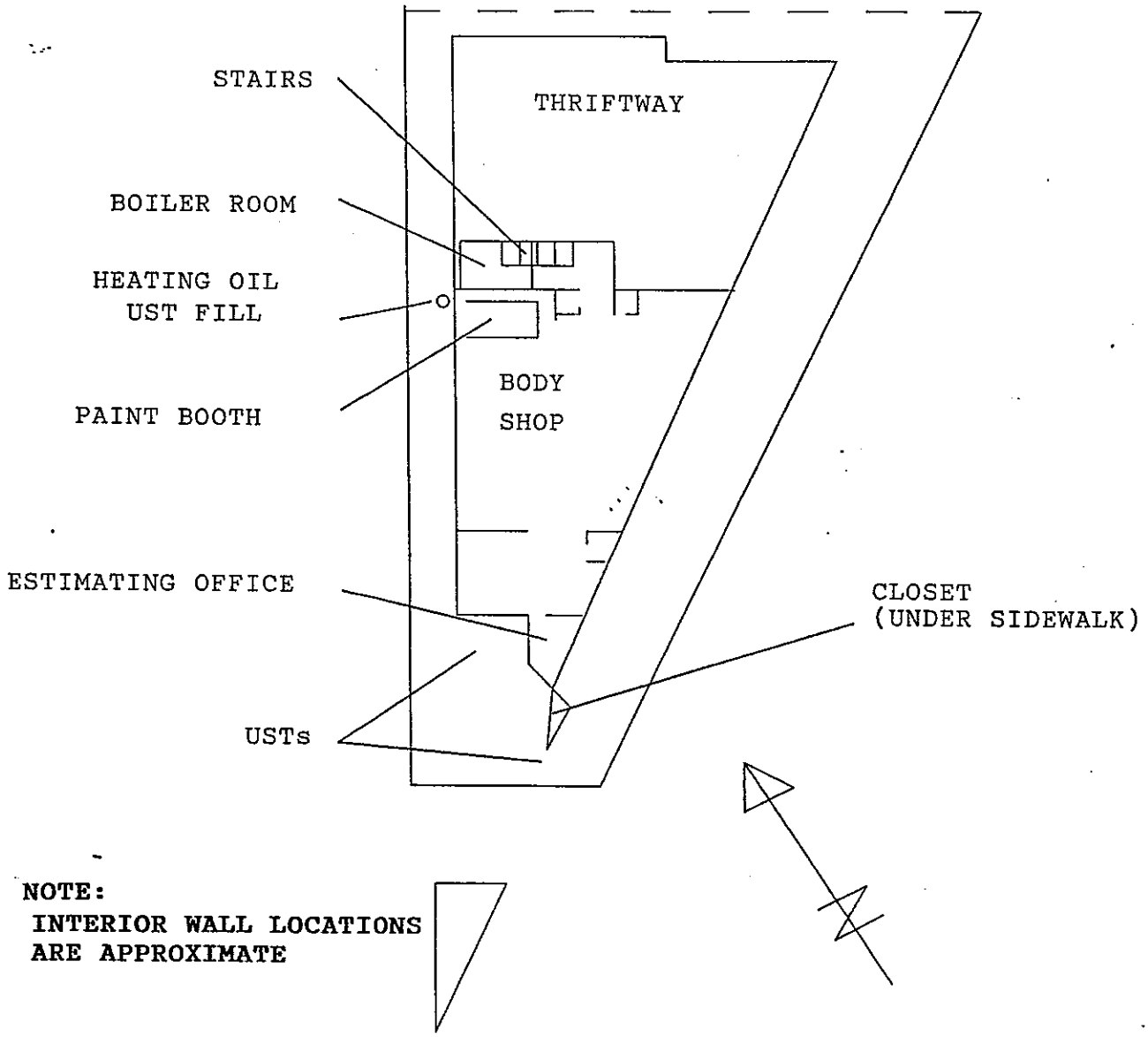
For Bill Shuck — 8/18/94
Bill Shuck, President — Date

APPENDIX A

Site Location / Site Plan



SITE LOCATION
BISON ENVIRONMENTAL NORTHWEST, INC.
PROJECT #94481 AUGUST 1994

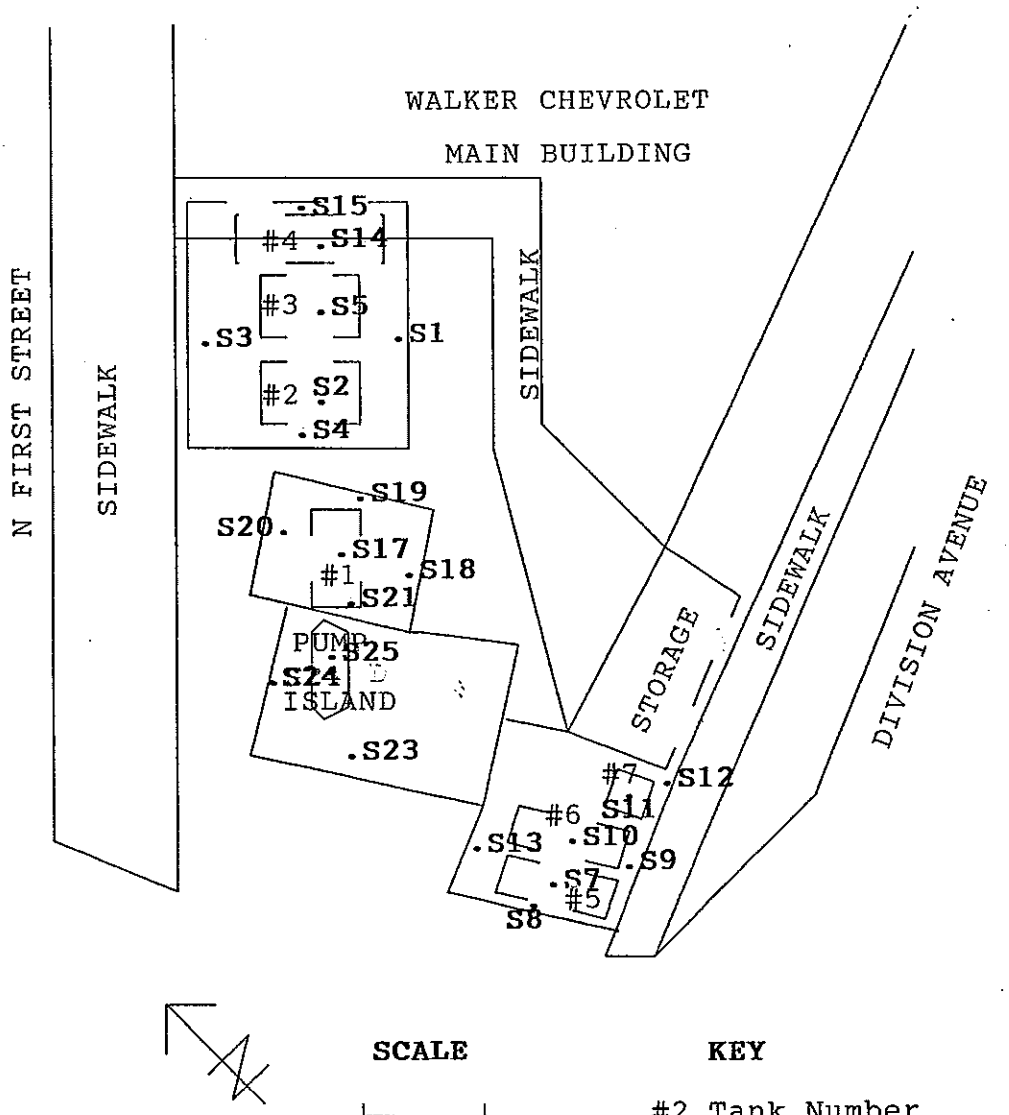


NOTE:
INTERIOR WALL LOCATIONS ARE APPROXIMATE

SCALE

0 50' 100'

SITE PLAN - LOWER FLOOR MAIN BUILDING
BISON ENVIRONMENTAL NORTHWEST, INC.
PROJECT# 94481 AUGUST 1994



SITE PLAN
BISON ENVIRONMENTAL NORTHWEST, INC.
PROJECT# 94481 AUGUST 1994

APPENDIX B

Analytical Results

SAMPLE LOG
WALKER CHEVROLET
PROJECT # 94481

Sample Number	Location	HCID	OTHER ANALYSIS		CLEANUP LEVEL (ppm)
S1	E wall tank 2-4 exc, 5'	ND	-		-
S2	Bottom tank 2, 10'	-	Gasoline	ND	-
			BTEX	ND	-
			Lead	ND	-
S3	W wall tank 2-4 exc, 7'	ND	-		-
S4	S wall tank 2-4 exc, 7'	ND	-		-
S5	Bottom tank 3, 10'	-	Gasoline	39 ppm	100
			B	ND	0.5
			T	ND	40
			E	0.33 ppm	20
			X	3.30 ppm	20
			Lead	6 ppm	250
S6	Tanks 5-7, surface	ND	-		-
S7	Bottom tank 5, 9'	ND	-		-
S8	S wall tank 5-7 exc, 7'	ND	-		-
S9	E wall tank 5-7 exc, 7'	ND	-		-
S10	Bottom tank 6, 8'	ND	-		-
S11	Bottom tank 7, 8'	ND	-		-
S12	E wall tank 5-7 exc, 7'	ND	-		-
S13	W wall tank 5-7 exc, 5'	ND	-		-
S14	Bottom tank 4, 10'	-	Gasoline	ND	-
			BTEX	ND	-
S15	N wall tank 2-4 exc, 8'	ND	-		-
S17	Bottom tank 1 exc, 8'	ND	-		-
S18	E wall tank 1 exc, 6'	ND	-		-
S19	N wall tank 1 exc, 7'	ND	-		-
S20	W wall tank 1 exc, 6'	ND	-		-
S21	S wall tank 1 exc, 7'	ND	-		-
S22	Pump I exc, 2' (removed)	-	Gasoline	570 ppm	100
			B	1.42 ppm	0.5
			T	7.81 ppm	40
			E	11.11 ppm	20
			X	84.20 ppm	20

SAMPLE LOG (continued)
WALKER CHEVROLET
PROJECT # 94481

Sample Number	Location	HCID	OTHER ANALYSIS		CLEANUP LEVEL (ppm)
S23	S wall pump I exc, 3'	ND	-		-
S24	W wall pump I exc, 3'	ND	-		-
S25	Bottom pump I exc, 5'	ND	-		-
01	Tank 2 overburden	ND	-		-
02	Tank 3 overburden	ND	-		-
03	Tank 1 overburden	ND	-		-
04	Tank 5-8 overburden	ND	-		-
05	Tank 5-8 overburden	ND	-		-
06	Tank 1 overburden	HO	Oils	1,900 ppm	200
			PCBs	ND	-
			VOCs	ND	-
		{metals}	Ba	88.4 ppm	5,600*
			Cd	0.4 ppm	2
			Cr	21.1 ppm	100
			Pb	34 ppm	250
			As,Hg,Se,&Ag	ND	-

NOTES TO SAMPLE LOG

1) ppm denotes parts per million
2) B, T, E, and X denote benzene, toluene, ethylbenzene, and xylenes, respectively
3) VOCs denote volatile organic compounds
4) ND denotes none detected. Refer to laboratory reports for detection limits.
5) HCID - analysis for petroleum hydrocarbons by WTPH-HCID method. Refer to laboratory reports for other methods used during this project.
6) Unless indicated by asterix, cleanup levels are "Method A" values as specified in the Model Toxics Control Act (MTCA), WAC 173-340. Asterix indicates MTCA Method B value.

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 ____

Project# (4648)
Project Name Walker
Client Walker
Results to Harry Penn

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
06	Overbank - Tank 1		8/2	9:40	S	HCID 5408-017-8783
S17	Bottom tank 1 @ 8'			10:10		HCID 8784
S18	E Side " @ 6'			10:12		HCID 8785
S19	N Side " @ 7'			10:15		HCID 8786
S20	W Side " @ 6'			10:50		HCID 8787
S21	S Side @ 7'			10:25		HCID 8788
S22	PI excavation	@ 7' (removed)		10:40		G/BTEX 8789
S23	Pit exc S-14 wall @ 3'			10:50		HCID 8790
S24	Pit exc W wall @ 3'			10:55		HCID 8791
S25	"	bottom @ 5'		11:08		HCID 8792

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

Special Instructions Bill to Bonneville, Attn: Mr. Gallrick 24-hr RSH

SIGNATURES: (Name, Company, Date and Time) Laboratory Name: Spectra

1. Relinquished by: BENW 8/2/94 12:20 2. Relinquished by: ____

Received by: D Bennett 8/2/94 12:20 Received by: ____

Delivered by: Hand / UPS ____ Airborne ____ Fed X ____ Other ____

SPECTRA Laboratories, Inc.

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

August 3, 1994

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

Attn: Dale Schuman

Project: Walker
Sample Matrix: Soil
Date Sampled: 8-2-94
Date Received: 8-2-94
Spectra Project: S408-017
RUSH

WTPH-HCID, mg/Kg

Spectra #	Sample ID:	Gasoline Concentration	Diesel Concentration	Heavy Oil Concentration	Surrogate Recovery p-Terphenyl
8783	06	<20	<50	*	54%
8784	S-17	<20	<50	<100	66%
8785	S-18	<20	<50	<100	67%
8786	S-19	<20	<50	<100	92%
8787	S-20	<20	<50	<100	63%
8788	S-21	<20	<50	<100	80%
8790	S-23	<20	<50	<100	79%
8791	S-24	<20	<50	<100	66%
8792	S-25	<20	<50	<100	80%

* Sample contains heavier than diesel range hydrocarbons.

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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August 5, 1994

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

Attn: Dale Schuman

Sample ID: 06
Project: Walker 94881
Sample Matrix: Soil
Date Sampled: 8-2-94
Date Received: 8-2-94
Spectra Project: S408-017
Spectra #8783
RUSH

Total Petroleum Hydrocarbons, mg/Kg	1,900

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

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August 5, 1994

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

Attn: Dale Schuman

Method: WTPH-418.1 Mod.
Sample Matrix: Soil
Spectra Project: S408-017
Applies to Spectra #8783

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Analyzed: 7-25-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	RPD
TPH	<20	204	165	81	158	77	4

METHOD BLANK

Date Extracted: 8-4-94

Date Analyzed: 8-4-94

Total Petroleum Hydrocarbons, mg/Kg	<20

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August 3, 1994

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

Attn: Dale Schuman

Sample ID: S-22
Project: Walker 94881
Sample Matrix: Soil
Date Sampled: 8-2-94
Date Received: 8-2-94
Spectra Project: S408-017
Spectra #8789
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 8-2-94
Date Analyzed: 8-2-94
Units: mg/Kg

Benzene	1.42
Toluene	7.81
Ethylbenzene	11.11
Total Xylenes	84.20

Surrogate Recovery - Trifluorotoluene 65%

WTPH-G, mg/Kg	570

Surrogate Recovery - Trifluorotoluene 70%

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August 3, 1994

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

Attn: Dale Schuman

METHOD BLANK
Date Analyzed: 8-2-94
Spectra Project: S408-017
Applies to Spectra #8789

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 8-2-94
Date Analyzed: 8-2-94
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethylbenzene	<0.3
Total Xylenes	<0.3

Surrogate Recovery - Trifluorotoluene 93%

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August 3, 1994

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

Attn: Dale Schuman

Sample Matrix: Soil
EPA Method: BETX 8020
Sample Spiked: Method Blank
Date Extracted: 8-1-94
Date Analyzed: 8-1-94
Units: mg/Kg
Spectra Project: S408-017
Applies to Spectra #8789

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	RPD
Benzene	<0.30	1.046	0.938	90	0.865	83	8
Toluene	<0.30	1.048	1.040	99	0.983	94	6
Ethylbenzene	<0.30	1.039	0.910	88	0.834	80	9
m,p-Xylene	<0.30	2.076	1.983	96	1.874	90	6
o-Xylene	<0.30	1.045	1.061	102	1.015	97	5

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Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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August 3, 1994

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

Attn: Dale Schuman

Method: WTPH-G
Sample Matrix: Soil
Spectra Project: S408-017
Applies to Spectra #8789

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 7-22-94
Date Analyzed: 7-22-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	RPD
Gasoline	<20	52	48	92	51	98	6

METHOD BLANK

Date Extracted: 8-2-94

Date Analyzed: 8-2-94

WTPH-G, mg/Kg

<20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

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August 5, 1994

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

Attn: Dale Schuman

Sample ID: S-22
Project: Walker 94881
Sample Matrix: Soil
Date Sampled: 8-2-94
Date Received: 8-2-94
Spectra Project: S408-017
Spectra #8789
RUSH

Total Lead (Pb), mg/Kg	18

Total Lead testing performed by EPA Method 6010

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August 5, 1994

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

Attn: Dale Schuman

METHOD BLANK
Date Analyzed: 8-4-94
Spectra Project: S408-017
Applies to Spectra #8789

Total Lead (Pb), mg/Kg	<4

Total Lead testing performed by EPA Method 6010

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 ____

Project# 94481
Project Name Walker
Client Walker
Results to Harry Perry

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required
06	Overburden - tank 1		8/2	9:40	S	HCID 5468-017-8783
S17	Bottom tank 1	@ 8'		10:10		HCID 8784
S18	E Side "	@ 6'		10:12		HCID 8785
S19	N Side "	@ 7'		10:15		HCID 8786
S20	W Side "	@ 6'		10:30		HCID 8787
S21	S Side	@ 7'		10:25		HCID 8788
S22	PI excavation	@ 7' (removed)		10:40		G/BTEX 8789
S23	Pt exc south wall	@ 3'		10:50		HCID 8790
S24	Pt exc W wall	@ 3'		10:55		HCID 8791
S25	"	bottom @ 5'		11:08		HCID 8792

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

Special Instructions Bill to Bonneville, Viert, Morton & the Gellrich 24-hr Rsh

SIGNATURES: (Name, Company, Date and Time) Laboratory Name: Spectra

1. Relinquished by: BENW/ [signature] 8/2/94 12:20 2. Relinquished by: ____

Received by: [signature] 8/2/94 12:20 Received by: ____

Delivered by: Hand ✓ UPS ____ Airborne ____ Fed X ____ Other ____

SPECTRA Laboratories, Inc.

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

August 8, 1994

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

Attn: Dale Schuman

Project: Walker
Sample Matrix: Soil
Date Sampled: 8-3-94
Date Received: 8-4-94
Spectra Project: S408-037
RUSH

Spectra #	ID	Total Petroleum Hydrocarbons, mg/Kg
8992	B-1-5.5'	8,000
8994	B-2-5.5'	79
8995	B3-2'	96
8998	B4-3'	480

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

August 8, 1994

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

Attn: Dale Schuman

Method: WTPH-418.1 Mod.
Sample Matrix: Soil
Spectra Project: S408-037
Applies to Spectra #'s
8992, 8994, 8995 and 8998

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Analyzed: 8-5-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	RPD
TPH	<20	204	214	105	205	100	5

METHOD BLANK

Date Extracted: 8-5-94

Date Analyzed: 8-5-94

Total Petroleum Hydrocarbons, mg/Kg <20

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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August 8, 1994

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

Attn: Dale Schuman

Sample ID: B-1-5.5'
Project: Walker
Sample Matrix: Soil
Date Sampled: 8-3-94
Date Received: 8-4-94
Spectra Project: S408-037
Spectra #8992
RUSH

Total Metals, mg/Kg

Arsenic	(As)	<5
Barium	(Ba)	43.8
Cadmium	(Cd)	<0.3
Chromium	(Cr)	18.6
Lead	(Pb)	25
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

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August 8, 1994

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

Attn: Dale Schuman

Sample ID: B-1-5.5'
Project: Walker
Sample Matrix: Soil
Date Sampled: 8-3-94
Spectra Project: S408-037

Date Received: 8-4-94
Date Analyzed: 8-4-94
Dilution: 45
< = less than
Spectra #8992 RUSH

VOLATILE ORGANIC COMPOUNDS — **EPA METHOD 8260**

Compound	CAS#	ug/Kg	Compound	CAS#	ug/Kg
Acetone	67-64-1	<2,300	trans-1,2-Dichloroethene	156-60-5	<230
Benzene	71-43-2	<230	1,2-Dichloropropane	78-87-5	<230
Bromobenzene	108-86-1	<230	1,3-Dichloropropane	142-28-9	<230
Bromochloromethane	74-97-5	<230	2,2-Dichloropropane	594-20-7	<230
Bromodichloromethane	75-27-4	<230	1,1-Dichloropropene	563-58-6	<230
Bromoform	75-25-2	<230	Ethylbenzene	100-41-4	2,200
Bromomethane	74-83-9	<460	2-Hexanone (MBK)	591-78-6	<2,300
2-Butanone (MEK)	78-98-3	<2,300	Hexachlorobutadiene	87-68-3	<230
n-Butylbenzene	104-51-8	<230	Isopropylbenzene	98-82-8	1,600
sec-Butylbenzene	135-98-8	450	p-Isopropyltoluene	99-87-6	480
tert-Butylbenzene	98-06-6	<230	Methylene chloride	75-09-2	<920
Carbon tetrachloride	56-23-5	<230	4-Methyl-2-pentanone (MIBK)	108-10-1	<2,300
Chlorobenzene	108-90-7	<230	Naphthalene	91-20-3	1,100
Chlorodibromomethane	124-48-1	<230	n-Propylbenzene	103-65-1	1,500
Chloroethane	75-00-3	<460	Styrene	100-42-5	<230
Chloroform	67-66-3	<230	1,1,1,2-Tetrachloroethane	630-20-6	<230
Chloromethane	74-87-3	<460	1,1,2,2-Tetrachloroethane	79-34-5	<230
2-Chlorotoluene	95-49-8	<230	Tetrachloroethene	127-18-4	210J
4-Chlorotoluene	106-43-4	<230	Toluene	108-88-3	85,000
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8	<2,300	1,2,3-Trichlorobenzene	87-61-6	<230
1,2-Dibromoethane (EDB)	106-93-4	<460	1,2,4-Trichlorobenzene	120-82-1	<230
Dibromomethane	74-95-3	<230	1,1,1-Trichloroethane	71-55-6	<230
1,2-Dichlorobenzene	95-50-1	<230	1,1,2-Trichloroethane	79-00-5	<230
1,3-Dichlorobenzene	541-73-1	<230	Trichloroethene	79-01-6	<230
1,4-Dichlorobenzene	106-46-7	<230	Trichlorofluoromethane	75-69-4	<230
Dichlorodifluoromethane	75-71-8	<460	1,2,3-Trichloropropane	96-18-4	<230
1,1-Dichloroethane	75-34-3	<230	1,2,4-Trimethylbenzene	95-63-6	11,000
1,2-Dichloroethane	107-06-2	<230	1,3,5-Trimethylbenzene	108-67-8	5,000
1,1-Dichloroethene	75-35-4	<230	Vinyl chloride	75-01-4	<460 OK
cis-1,2-Dichloroethene	156-59-2	<230	Total xylenes	---	143,000

CAS# = Chemical Abstract Services Registry Number

VOA Surrogate Percent Recoveries

Dibromofluoromethane	92%
Toluene-d8	107%
4-Bromofluorobenzene	107%

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

Richard J. Forrester
Manager, Organic Chemistry

SPECTRA Laboratories, Inc.

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

August 8, 1994

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

Attn: Dale Schuman

METHOD BLANK
Date Analyzed: 8-4-94
Spectra Project: S408-037
Applies to Spectra #'s
8992, 8995 & 8998

Date Received: 8-4-94
Date Analyzed: 8-4-94
Dilution: 1
< = less than

VOLATILE ORGANIC COMPOUNDS — **EPA METHOD 8260**

Compound	CAS#	ug/Kg	Compound	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	101%
Toluene-d8	101%
4-Bromofluorobenzene	98%

Richard F. Forrester
Manager, Organic Chemistry

SPECTRA Laboratories, Inc.

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

August 8, 1994

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

Attn: Dale Schuman

Sample ID: B3-2'
Project: Walker
Sample Matrix: Soil
Date Sampled: 8-3-94
Spectra Project: S408-037

Date Received: 8-4-94
Date Analyzed: 8-4-94
Dilution: 1
< = less than
Spectra #8995 RUSH

VOLATILE ORGANIC COMPOUNDS — **EPA METHOD 8260**

Compound	CAS#	ug/Kg	Compound	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	13
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	---	5J

CAS# = Chemical Abstract Services Registry Number

VOA Surrogate Percent Recoveries

Dibromofluoromethane	99%
Toluene-d8	102%
4-Bromofluorobenzene	101%

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

Richard J. Forrester
Manager, Organic Chemistry

SPECTRA Laboratories, Inc.

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

August 8, 1994

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

Attn: Dale Schuman

Sample ID: B4-3'
Project: Walker
Sample Matrix: Soil
Date Sampled: 8-3-94
Spectra Project: S408-037

Date Received: 8-4-94
Date Analyzed: 8-4-94
Dilution: 1
< = less than
Spectra #8998 RUSH

VOLATILE ORGANIC COMPOUNDS — **EPA METHOD 8260**

Compound	CAS#	ug/Kg	Compound	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	7
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	---	6

CAS# = Chemical Abstract Services Registry Number

VOA Surrogate Percent Recoveries

Dibromofluoromethane	105%
Toluene-d8	96%
4-Bromofluorobenzene	132%*

Sample contains a wide variety of compounds indicative of petroleum and aromatic hydrocarbons.

* Surrogates out of limits due to matrix effects.

Richard J. Forrester
Manager, Organic Chemistry

SPECTRA Laboratories, Inc.

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

August 8, 1994

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

Attn: Dale Schuman

Sample Matrix: Soil
EPA Method: 8260
Sample Spiked: Method Blank
Date Analyzed: 7-25-94
Units: ug/Kg
Spectra Project: S408-037
Applies to Spectra #'s
8992, 8995 and 8998

GCMS VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	RPD
1,1-Dichloroethene	<5	50.0	41.7	83	38.3	77	8
Trichloroethene	<5	50.0	43.3	87	39.1	78	10
Benzene	<5	50.0	50.5	101	45.6	91	10
Toluene	4.6	50.0	52.4	96	46.3	83	14
Chlorobenzene	<5	50.0	46.6	93	40.5	81	14

SPECTRA LABORATORIES, INC.

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

(57)

Page 1 of ____

Project# 94481
Project Name Walker Chevrolet
Client walker
Results to Henry Perron

5408-015

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required	
04	Overburden - Tank	5-8	8/1	10:05	S	HCID	8756
05	"	"	8/1	11:00	S	HCID	8757
57	Tank 5, Bottom	@ 9' *		11:45		HCID	8758
58	" S. wall	@ 7' *		11:50		HCID	8759
—	" E. wall (end)	@ 7' *		11:55		HCID	8760
510	Tank 6, Bottom	@ 9' *		12:45		HCID	8761
511	Tank 7 Bottom	@ 8' *		1:10		HCID	8762
512	Tank 7 E wall (end)	@ 7' *		1:11		HCID	8763
513	West wall	@ 5' *		1:30		HCID	8764
514	Bottom Tank	4 @ 10'		2:50		WTPH-G/BTEX	8765
515	N Wall Tank	4 @ 8'		2:55		HCID	8766
* relative to sidewalk		east wall of excavation					

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

Special Instructions Bill to Bonneville, Utah Mail to M Goldrick 24-hour rush

SIGNATURES: (Name, Company, Date and Time) Laboratory Name: Spectra

1. Relinquished by: BENW 4:00 PM 8/1/94 2. Relinquished by: ____

Received by: [illegible] 8-1-94 4:00pm Received by: ____

Delivered by: Hand ____ UPS ____ Airborne ____ Fed X ____ Other ____

SPECTRA Laboratories, Inc.
2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

August 3, 1994

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

Attn: Dale Schuman

Project: Walker 94481
Sample Matrix: Soil
Date Sampled: 8-1-94
Date Received: 8-1-94
Spectra Project: S408-015
RUSH

WTPH-HCID, mg/Kg

Spectra #	Sample ID:	Gasoline Concentration	Diesel Concentration	Heavy Oil Concentration	Surrogate Recovery p-Terphenyl
8756	04	<20	<50	<100	73%
8757	05	<20	<50	<100	80%
8758	S7	<20	<50	<100	73%
8759	S8	<20	<50	<100	79%
8760	S9	<20	<50	<100	88%
8761	S10	<20	<50	<100	78%
8762	S11	<20	<50	<100	78%
8763	S12	<20	<50	<100	78%
8764	S13	<20	<50	<100	75%
8766	S15	<20	<50	<100	78%

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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

August 3, 1994

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

Attn: Dale Schuman

Sample ID: S14
Project: Walker 94481
Sample Matrix: Soil
Date Sampled: 8-1-94
Date Received: 8-1-94
Spectra Project: S408-015
Spectra #8756
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 8-2-94
Date Analyzed: 8-2-94
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethylbenzene	<0.3
Total Xylenes	<0.3
Surrogate Recovery - Trifluorotoluene	86%

WTPH-G, mg/Kg	<20
Surrogate Recovery - Trifluorotoluene	94%

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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

August 3, 1994

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

Attn: Dale Schuman

METHOD BLANK
Sample Matrix: Soil
Spectra Project: S408-015
Applies to Spectra #8765

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 8-2-94
Date Analyzed: 8-2-94
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethylbenzene	<0.3
Total Xylenes	<0.3

Surrogate Recovery - Trifluorotoluene 101%

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

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

August 3, 1994

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

Attn: Dale Schuman

Method: WTPH-G
Sample Matrix: Soil
Spectra Project: S408-015
Applies to Spectra #8765

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 7-22-94
Date Analyzed: 7-22-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	RPD
Gasoline	<20	52	48	92	51	98	6

METHOD BLANK

Date Extracted: 8-2-94

Date Analyzed: 8-2-94

WTPH-G, 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# 9408.1
Project Name Walker
Client "
Results to Harry Reming

5408-002

Sample #	Location	Sample Description	Date	Time	Sample Type	Analysis Required	
01	Overburden - tank 2		7/30	12:50	S	WTPH-HCID	8700
S1	E Wall between	tanks 2 & 3 @ 5'	7/30	1:00	S	WTPH-HCID	8701
S2	Bottom Tank 2	10'	7/30	1:10	S	* WTPH-G/BTEX, LEAD	8702
S3	W Wall end Tank 2	@ 7'	7/30	1:12		WTPH-HCID	8703
S4	S Wall (Ex Tank 2)	@ 7'	7/30	1:15		WTPH-HCID	8704
~~02~~ 02	Overburden - Tank 3		7/30	1:50		WTPH-HCID	8705
S5	Bottom Tank 3	10'	7/30	1:40		* WTPH-G/BTEX, LEAD	8706
S6	Surface near Suspect USTs		7/30	2:40		WTPH-HCID	8707
03	Overburden - tank 2		7/30	3:00	↓	WTPH-HCID	8708

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

Special Instructions Bill to Bonneville Visit, Morton, * Mr. Goldrick 24-hour rush.
* This afternoon if possible

SIGNATURES: (Name, Company, Date and Time) Laboratory Name: Spectra

1. Relinquished by: BENW/ [illegible] 8/1/94 8:30
Received by: Marcel Holt Spectra 8-1-94 8:45

2. Relinquished by: _____
Received by: _____

livered by: Hand _____ UPS _____ Airborne _____ Fed X _____ Other _____

SPECTRA Laboratories, Inc.

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

AUG 03 1994

August 2, 1994

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

Attn: Dale Schuman

Project: 94481
Sample Matrix:
Date Sampled: 7-30-94
Date Received: 8-1-94
Spectra Project: S408-002
RUSH

WTPH-HCID, mg/Kg

Spectra #	Sample ID:	Gasoline Concentration	Diesel Concentration	Heavy Oil Concentration	Surrogate Recovery p-Terphenyl
8700	01	<20	<50	<100	65%
8701	S1	<20	<50	<100	60%
8703	S3	<20	<50	<100	62%
8704	S4	<20	<50	<100	69%
8705	02	<20	<50	<100	62%
8707	S6	<20	<50	<100	64%
8708	03	<20	<50	<100	67%

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August 2, 1994

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

Attn: Dale Schuman

Sample ID: 02 (Additional Testing)
Project: 94481
Sample Matrix: Soil
Date Sampled: 7-30-94
Date Received: 8-1-94
Spectra Project: S408-002
Spectra #8705
RUSH

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 8-1-94
Date Analyzed: 8-1-94
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethylbenzene	<0.3
Total Xylenes	<0.3

Surrogate Recovery - Trifluorotoluene 78%

WTPH-G, mg/Kg	<20

Surrogate Recovery - Trifluorotoluene 84%

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August 2, 1994

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

Attn: Dale Schuman

METHOD BLANK
Date Analyzed: 8-1-94
Sample Matrix: Soil
Spectra Project: S408-002
Applies to Spectra #'s 8702, 8705 and 8706

BTEX, EPA Method 8020
Dilution Factor: 1

Date Extracted: 8-1-94
Date Analyzed: 8-1-94
Units: mg/Kg

Benzene	<0.3
Toluene	<0.3
Ethylbenzene	<0.3
Total Xylenes	<0.3

Surrogate Recovery - Trifluorotoluene 101%

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Steven G. Hibbs, Chemist

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August 2, 1994

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

Attn: Dale Schuman

METHOD BLANK
Date Analyzed: 8-1-94
Spectra Project: S408-002
Applies to Spectra #'s
8702 and 8706

Total Lead (Pb), mg/Kg	<4

Total Lead testing performed by EPA Method 6010

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August 2, 1994

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

Attn: Dale Schuman

Method: WTPH-G
Sample Matrix: Soil
Spectra Project: S408-002
Applies to Spectra #'s
8702, 8705 and 8706

HYDROCARBON ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 7-22-94
Date Analyzed: 7-22-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	RPD
Gasoline	<20	52	48	92	51	98	6

METHOD BLANK

Date Extracted: 8-1-94

Date Analyzed: 8-1-94

WTPH-G, mg/Kg

<20

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August 2, 1994

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

Attn: Dale Schuman

Sample Matrix: Soil
EPA Method: BETX 8020
Sample Spiked: Method Blank
Date Extracted: 8-1-94
Date Analyzed: 8-1-94
Units: mg/Kg
Spectra Project: S408-002
Applies to Spectra #'s
8702, 8705 and 8706

VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	RPD
Benzene	<0.30	1.046	0.938	90	0.865	83	8
Toluene	<0.30	1.048	1.040	99	0.983	94	6
Ethylbenzene	<0.30	1.039	0.910	88	0.834	80	9
m,p-Xylene	<0.30	2.076	1.983	96	1.874	90	6
o-Xylene	<0.30	1.045	1.061	102	1.015	97	5

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Steven G. Hibbs, Chemist

(3 1 1 1994

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

August 10, 1994

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

Attn: Dale Schuman

Sample ID: 06 Add. Testing
Project: Walker
Sample Matrix: Soil
Date Sampled: 8-2-94
Date Received: 8-9-94
Spectra Project: S408-064
Spectra #9091
RUSH

PCB's, mg/Kg		<0.1
Surrogate Recovery - tcm-xylene 102%		

Total Metals, mg/Kg

Arsenic	(As)	<5
Barium	(Ba)	88.4
Cadmium	(Cd)	0.4
Chromium	(Cr)	21.1
Lead	(Pb)	34
Mercury	(Hg)	<3
Selenium	(Se)	<8
Silver	(Ag)	<0.7

PCB's performed by EPA Method 8080
Total Metals testing performed by EPA Method 6010
Cadmium testing performed by EPA Method 7131-1 GFAA

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Steven G. Hibbs, Chemist

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

August 10, 1994

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

Attn: Dale Schuman

METHOD BLANK
Sample Matrix: Soil
Spectra Project: S408-064
Applies to Spectra #9091

Total Metals, mg/Kg

Arsenic	(As)	<5
Barium	(Ba)	<0.2
Cadmium	(Cd)	<0.3
Chromium	(Cr)	<0.7
Lead	(Pb)	<4
Mercury	(Hg)	<3
Selenium	(Se)	<8
Silver	(Ag)	<0.7

Total Metals testing performed by EPA Method 6010
Cadmium testing performed by EPA Method 7131-1 GFAA

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Steven G. Hibbs, Chemist

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August 10, 1994

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

Attn: Dale Schuman

EPA Method: PCB's 8080
Sample Matrix: Soil
Spectra Project: S408-064
Applies to Spectra #9091

PCB ANALYSIS
QUALITY CONTROL RESULTS

MS/MSD

Spiked Sample: Method Blank
Units: mg/Kg

Date Extracted: 8-9-94
Date Analyzed: 8-9-94

Compound	Sample Result	Spike Amount	Spike Result	% Recovery	Dup. Result	Dup. % Recovery	RPD
Type 1260	<0.1	2.31	2.14	93	2.41	104	12

METHOD BLANK

Date Extracted: 8-9-94

Date Analyzed: 8-9-94

PCB's, mg/Kg

<0.1

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Steven G. Hibbs, Chemist

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August 10, 1994

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

Attn: Dale Schuman

Sample ID: 06 Add. Testing
Project: Walker
Sample Matrix: Soil
Date Sampled: 8-2-94
Spectra Project: S408-064

Date Analyzed: 8-9-94
Dilution: 1
< = less than
Spectra #9091
RUSH

VOLATILE ORGANIC COMPOUNDS — **EPA METHOD 8260**

Compound	CAS#	ug/Kg	Compound	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	106%
Toluene-d8	96%
4-Bromofluorobenzene	136% *

* Surrogates out of limits due to matrix effects.

Richard J. Forrester
Manager, Organic Chemistry

SPECTRA Laboratories, Inc.

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

August 10, 1994

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

Attn: Dale Schuman

METHOD BLANK
Sample Matrix: Soil
Spectra Project: S408-064
Applies to Spectra #9091

Date Analyzed: 8-8-94
Dilution: 1
< = less than

VOLATILE ORGANIC COMPOUNDS — **EPA METHOD 8260**

Compound	CAS#	ug/Kg	Compound	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	102%
Toluene-d8	100%
4-Bromofluorobenzene	95%

Richard J. Forrester
Manager, Organic Chemistry

SPECTRA Laboratories, Inc.

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

August 10, 1994

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

Attn: Dale Schuman

Sample Matrix: Soil
EPA Method: 8260
Sample Spiked: Method Blank
Date Analyzed: 7-25-94
Units: ug/Kg
Spectra Project: S408-064
Applies to Spectra #9091

GCMS VOLATILE ORGANIC ANALYSIS
QUALITY CONTROL RESULTS

Compound	Sample Result	Spike Amount Added	Spike Amount Found	% Recovery	Dup. Spike Amount Found	% Recovery	RPD
1,1-Dichloroethene	<5	50.0	41.7	83	38.3	77	8
Trichloroethene	<5	50.0	43.3	87	39.1	78	10
Benzene	<5	50.0	50.5	101	45.6	91	10
Toluene	<5	50.0	52.4	96	46.3	83	14
Chlorobenzene	<5	50.0	46.6	93	40.5	81	14

SPECTRA LABORATORIES, INC.

Richard J. Forrester
Manager, Organic Chemistry

APPENDIX C

Checklists
Pump and Rinse Certificates
UST Destruction Certificates

08/15/1994 09:49 20692 15 FIFE SAND & VEL PAGE 01

Post-it™ brand Fax Transmittal Memo 7672

To Henry Ecan Eng
Company
Location
Fax # 927-2610 Telephone #
Comments

No. of Pages 24 Today's Date 8-15-94 Time 10:50
From Mike Kelley
Company Fife Sand & Gravel
Location Dept. Charge
Fax # 926-0815 Telephone # 922-7710
Original Disposition: ☐ Destroy ☐ Return ☐ Call for pickup

Henry, I am sending copy's of actual work sheets because only 4 tanks show on rinse certificate
Kathy

Fife
SAND & GRAVEL
3120 Freeman Road East
Puyallup, Washington 98371-1838
Phone: (206) 922-7710
Mike & Kathy Kelley

August 10, 1994

Dave Shaw
Walker Chevrolet
633 Division Ave
Tacoma, WA 98403

DISPOSAL CERTIFICATE

This document serves to certification that 7 (seven) underground storage tanks removed from Walker Chevrolet were disposed of in accordance with all Federal, State and Local rules and regulations at General Metals in Tacoma.

BY: M Kelley

ENVIRONMENTAL WASTE CONTROL

WASTE DISPOSAL, INC.

1-800-582-2343
FAX (206) 588-2558

P.O. Box 44002
Tacoma, WA 98444

RINSE CERTIFICATE

TO WHOM IT MAY CONCERN:

This is to certify that the following tank(s) have been tripple rinsed and deemed clean for the purpose of disposal:

Number of tanks

Tank size 1- 1,300, 1- 1,500, 1- 3,000, 1- 3,000 gallons fuel tanks

The following tanks were removed from, or located at:

Walker Chevrolet
633 Division
Tacoma, Washington

Date: July 30 and August 02, 1994
Invoice Reference# 75745 & 75748 & 75746

Signed: [signature]

WASTE DISPOSAL INC.

P.O. Box 44002
TACOMA, WASHINGTON 98444
800-582-2343

CUSTOMER'S ORDER NO.	PHONE	DATE 7-30-94

NAME Fife Sand Gravel
ADDRESS

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT

QTY.	DESCRIPTION	PRICE	AMOUNT
	WASTE ANTIFREEZE WTO2		
	WASTE SLUDGE UNREGULATED		
	WASTE WATER UNREGULATED		
	WASTE LUBE OIL UNREGULATED		
5 hr	Truck Time hr. START 10:00 STOP 3:00	65.00	325.00
	1 = 1500 gal tank - Oil sludge	4[illegible]	166.50
	37 gal Sludge, 100 Waste Water water	95	95.00
	1 - 3[illegible] [illegible]		
	1 - 3,000 gal tank Gas Sludge water		
	53 gal sludge Waste Water	9[illegible]	117.00
	Net 30 days. A finance charge of 1½% per month will be charged for all unpaid balances.	TAX	
RECEIVED BY [illegible]		TOTAL	1288.50

75745

All claims and returned goods MUST be accompanied by this bill.

Thank You

WASTE DISPOSAL INC.

P.O. Box 44002
TACOMA, WASHINGTON 98444
800-582-2343

CUSTOMER'S ORDER NO.	PHONE	DATE 8-1-94

NAME Fife Sand & Gravel
ADDRESS

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT

QTY.	DESCRIPTION	PRICE	AMOUNT
	WASTE ANTIFREEZE WTO2		
	WASTE SLUDGE UNREGULATED		
	WASTE WATER UNREGULATED		
	WASTE LUBE OIL UNREGULATED		
	Waste, Gas, Oil, Water	95	1,235.00
1,300	gals Pump out of 4 tank were still in the ground		
4 hrs	TK Time 65 a hr	65.00 hr	206.00
	Wash & Rinse 4 tanks		
45 gal	[illegible]		
	[illegible]		
100 gal	[illegible]		
40 gal	Waste Sludge NO Charge		
	NO Sludge Charge		
	Net 30 days. A finance charge of 1½% per month will be charged for all unpaid balances	TAX	
RECEIVED BY Ron		TOTAL	1,650.00

75746

All claims and returned goods MUST be accompanied by this bill.

Thank You