

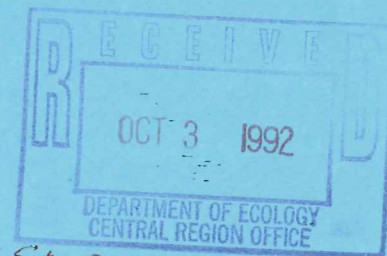
UST CLOSURE SITE ASSESSMENT

JERRY'S STEEL SUPPLY
SUNNYSIDE, WASHINGTON

Prepared for:
Mr. Harold Lee
Jerry's Steel
232 North Sixth Street
Sunnyside, WA 98922

#10748

OCTOBER, 1992



Site Register 10/6/92 SJB



WHITE SHIELD

INC.

P.O. BOX 477, 246 DIVISION STREET, GRANDVIEW, WA 98930
TELEPHONE: (509) 882-1144 VOICE (509) 882-4566 FAX

EXECUTIVE SUMMARY

White Shield, Inc. (WSI) provided site assessment services upon removal of one 1,000 gallon diesel UST and one 500 gallon gasoline UST, located at the site of Jerry's Steel in Sunnyside, WA.

Based on our visual observations, analytical laboratory analyses, site information, and interviews, we found evidence of gasoline and diesel fuel contamination in both the soil and the groundwater.

Additional site characterization and cleanup of the petroleum contaminated soil will be required. We recommend a site characterizattion study prior to remedial groundwater work. The close proximity of a known petroleum contamination source to the south of the subject property presents the possibility that the observed contamination may be influenced or associated with offsite conditions.

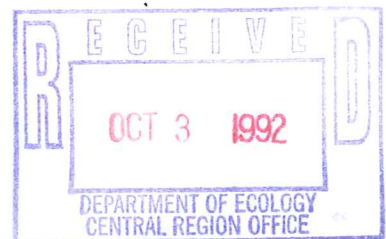


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Appendix F: Exploratory Investigation

1.0 Introduction

1.1 Purpose

This report describes findings and actions taken for work associated with Underground Storage Tank removals. The work and investigation responds to regulatory requirements set forth by the United States Environmental Protection Agency (EPA) and in compliance with Chapter 173-360 WAC and Chapter 173-340 WAC of the State of Washington and enforced by the Department of Ecology (WSDOE).

1.2 Scope of Work

This report completes site assessment services provided by White Shield, Inc. (WSI), for one 1,000 gallon diesel UST and one 500 gallon gasoline UST on the property of Jerry's Steel Supply, Inc., Sunnyside, Washington. White Shield, Inc. also provided the UST decommissioning supervision.

2.0 Background Information

2.1 Site Location

The site is located at 232 N. Sixth Street, Sunnyside, Washington. The site is described as NW 1/4 Section 25 T10N, R22E, WM. Refer to Figure 1, Site Location Map.

2.2 Site Description and History

We understand that this UST system formerly supported fuel storage and dispensing for the private use of Jerry's Steel Supply, Inc. a scrap metal and salvage facility. The USTs were installed prior to 1965. Mr. Harold Lee stated that they had been out of service for at least 10 years. The USTs were removed August 22, 1992.

SITE LOCATION

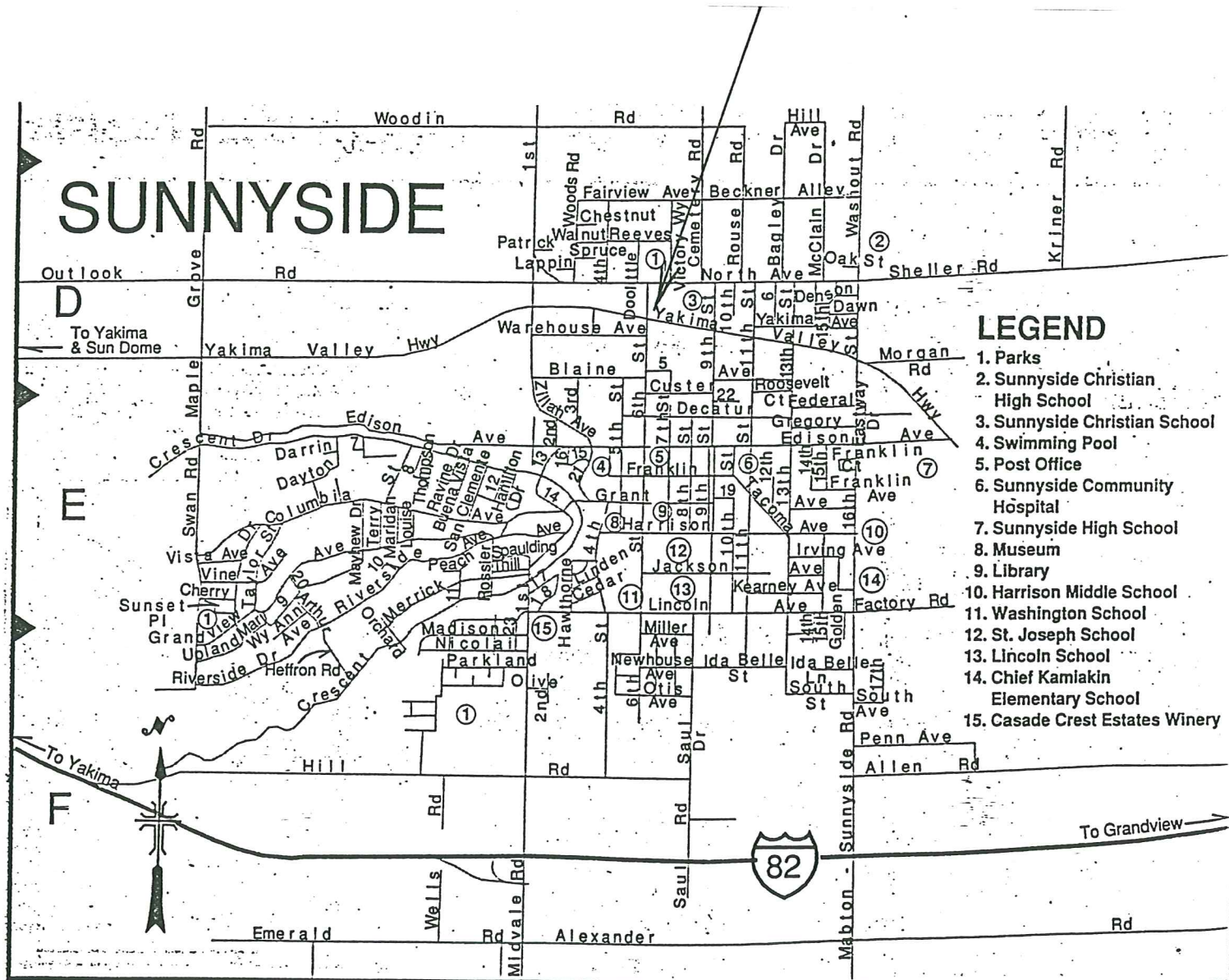


Figure 1 - Site Location

2.3 Soils Description

Our inspection found the soil to be a medium brown silty sand to approximately 5 1/2 feet, where it changed to a light gray silty sand.

3.0 Field Activities

3.1 General Investigative Methods

We visually inspected each UST, the soil and the fill. We also used field screening, analytical laboratory analyses, and interviews for data. The methods and general conclusions are discussed below.

3.2 Tank Inspection

We removed attached soil and scale to completely expose the tanks. With the soil and scale removed, we carefully examined each tank. The diesel tank was in good condition, exhibiting moderate evidence of corrosion and pitting, but with no apparent holes. The gasoline tank was badly corroded with numerous holes scattered throughout.

3.3 Site Assessment

Bryan Mull, a site assessor registered with the Washington State Department of Ecology Underground Storage Tank Program, performed the site assessment on August 22, 1992 during and after removal of the USTs. Don Abbott from the Washington State Department of Ecology was present on the site during the decommissioning activities. The diesel tank was found to have one foot of soil cover with visible evidence of petroleum contamination on the surface around the UST.

On May 13, 1992, White Shield, Inc. (WSI) conducted a preliminary exploratory investigation consisting of 3 augered soil boring and groundwater observation holes to determine the existence of petroleum contamination. This investigation indicated the existence of petroleum contamination below 5 1/2 feet. Refer to the report for the Exploratory Investigation dated June 9, 1992 in Appendix F.

Soil samples and water samples were collected from the UST excavation, during the decommissioning activities on August 22, 1992. The

samples were screened as described in Section 4.1 below. The screening indicated the contamination to be above the Model Toxics Control Act Method A cleanup standards for diesel and gasoline. Refer to the Field Sampling Log, Appendix A, and the sampling plan, Figure 2 for sample location and excavation extent. The excavation was extended eastward beyond the diesel tank, when visual petroleum contamination was observed along the north wall.

As required by WSDOE, we have completed the Underground Storage Tank Site Check/Site Assessment Checklist and the Underground Storage Tank Permanent Closure/Change-in-Service Checklist for each tank and have enclosed them in this report as Appendix D and E.

4.0 Investigative Methods

4.1 Field Screening

For field analysis of compounds containing volatile organics, WSI uses a Foxboro Organic Vapor Analyzer in conjunction with the interim headspace method as recommended by the manufacturer. This method is used to confirm the presence or absence of volatile components in the soil and provides only a rough indication of the contaminant concentrations. The analysis procedure involves:

1. Selecting a clean, wide mouth jar (1 qt.) and filling the bottom 1/3 with a discrete soil sample.
2. Place aluminum foil over the top of the jar and place a ring over the jar to create a seal.
3. Boil the sample for 10 minutes. This causes the volatile compounds to become vapors and collect in the space above the soil.
4. Remove the sample from the boiling water and insert the instrument probe through the aluminum foil for vapor analysis.
5. Record the instrument response on the Field Form.

For field analysis of semi-volatile (diesel) and non-volatile compounds (motor oil), WSI uses Thin Layer Chromatography (TLC) for qualitative and quantitative analysis. This analytical technique utilizes the principle of chromatography to separate individual components for comparison to known standards.

JERRY'S STEEL - SAMPLING PLAN

← NORTH

D - 1000 GAL. DIESEL TANK (45½" x 144")
G - 500 GAL. GASOLINE TANK

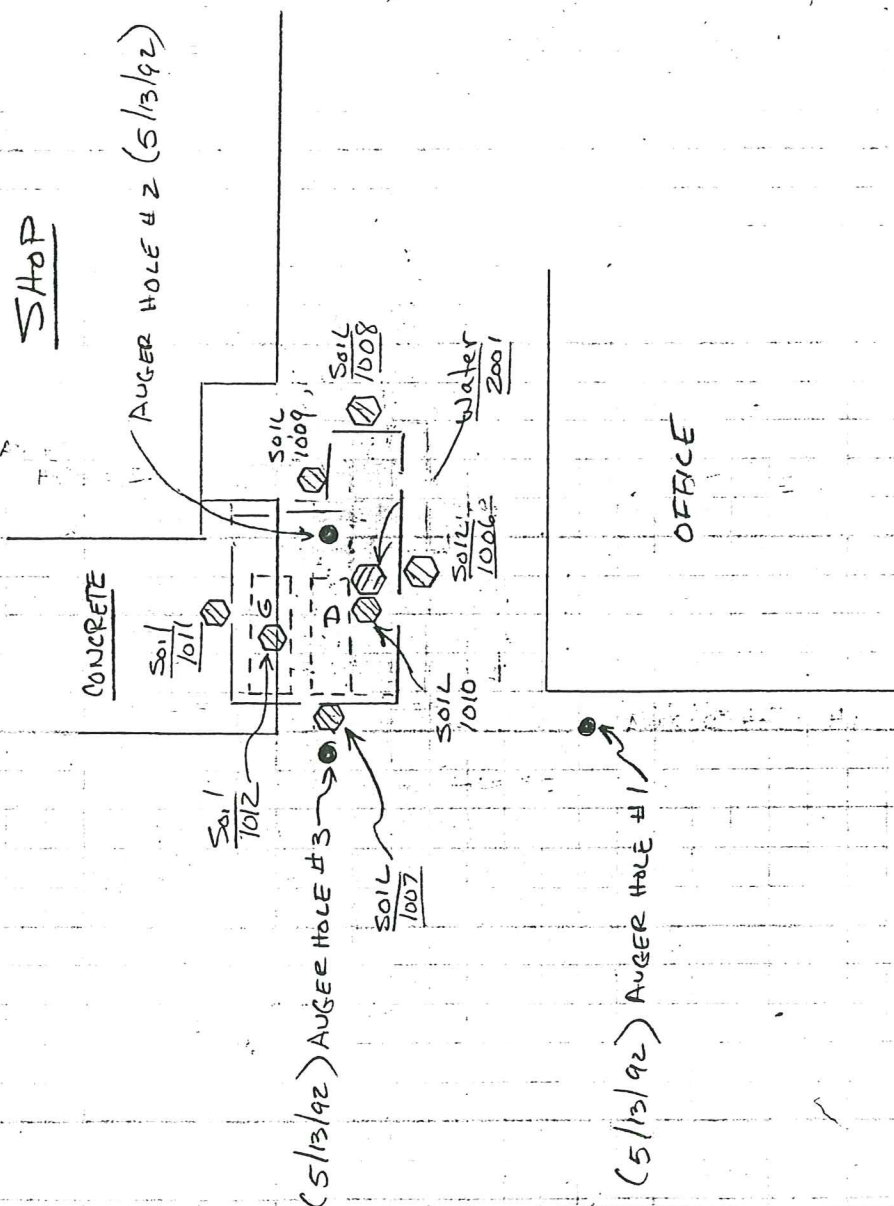


Figure 2 - Sampling Plan

TLC is classified as a solid-liquid chromatographic system, meaning there are two phases through which an extract of the sample is passed; a solid phase (silica gel) and a liquid phase (a solvent such as hexane).

The solid phase is stationary and is coated on a glass plate. During the chromatography process, the liquid phase carries the sample through the solid phase. The solvent moves at a fairly constant rate through the solid phase. However, the compound in the sample (analyte) are partitioned by a relative attractiveness of the analyte between the solid phase and the liquid phase. Analytes strongly attracted to the silica will remain on the silica longer and move more slowly than analytes that are not as strongly attracted to the silica. When the chromatography is stopped, the distance the analyte has moved relative to the distance the solvent has moved is used to identify the compound. When the plate is viewed under ultraviolet light, the analytes can be seen and compared to standards of known concentration for quantitative analysis.

4.2 Soil Sampling

The Sampling Plan (Figure 2 and attached Field Sampling Log (Appendix A) shows the location, depth and types of samples taken. In general, sample collection and control followed the following protocol:

1. Select a laboratory certified clean sample jar for sample collection.
2. Using clean latex gloves and clean sampling utensils (tri-sodium phosphate, chlorine solution, tap water rinse and distilled water rinse cycle) tightly pack the soil sample in the sample jar (4 oz.) to the top of the jar to prevent any airspace.
3. Label the jar with the soil sample number, the type of laboratory test required, the date, name of site and sampler. The sample is then entered on the chain of custody form.
4. Cool the sample in wet ice to approximately 4 degrees centigrade.
5. Repack the samples for shipment to the laboratory in blue ice and a cooler.
6. Relinquish sample to courier for shipment to the laboratory.

4.3 Soil Analysis Summary

The laboratory analysis of Samples # JSS-0192-1006 and JSS-0192-1009 from the sides of the excavation at a depth of 5 feet indicated diesel to be present at 1,000 ppm and 750 ppm, respectively. Soil Sample #JSS-0192-1010 from beneath the diesel tank at a depth of 8 feet showed no petroleum contamination above laboratory detection limits.

The laboratory analysis of Sample # JSS-0192-1011 from the side of the gasoline UST excavation at a depth of 6 feet indicated gasoline contamination at 4,500 ppm. Sample # JSS-0192-1012, from the bottom at 9 feet indicated gasoline contamination at 16,000 ppm.

Results of the analyses are shown in Appendix B. These results should be compared with the Model Toxics Control Act Method A Cleanup Levels for Petroleum Releases (Appendix C). The cleanup for diesel is 200 ppm and for gasoline, 100 ppm.

4.4 Groundwater Sampling

Water sampling followed the same general protocol as the soil samples. The difference lies in filling the sample bottle. We filled the water bottle and placed the cap on the sample underwater to ensure the absence of air space. Refer to the sampling plan, Figure 2.

4.5 Groundwater Analysis Summary

The laboratory analysis for Sample # JSS-0192-2001 showed Benzene at 3,700 ppb, Ethyl Benzene at 5,900 ppb, Toluene at 16,000 ppb, and Xylenes at 27,000 ppb. The high levels of these volatile organic compounds indicate the presence of gasoline contamination in the groundwater. Refer to Appendix B for the analytical results.

5.0 Conclusion

5.1 Summary

Based upon the analytical results and our investigation, WSI finds petroleum concentrations in the site environment in excess of the Cleanup Levels as established by the Model Toxics Control Act (WAC 173-340-720).

5.2 Recommendations

WSI recommends further investigation and site characterization to determine the extent of contamination. We recommend immediate removal of diesel and gasoline contaminated soil in the tank areas. Gasoline contamination may extend a considerable distance from the former tank site and may also be influenced by known groundwater contamination from offsite sources. Characterization of the groundwater beneath the site is recommended to determine the extent and possible interaction with other contaminant sources.

6.0 Limitations

In performing our professional services, WSI uses a degree of care ordinarily exercised under similar circumstances by members of our profession. No warranty, expressed or implied, is made or intended. Our conclusions and recommendations, developed from our field and laboratory investigation reported herein, are based upon this firm's understanding of the project and are in concurrence with generally accepted practice.

APPENDIX A
Field Sampling Log

Sample #	Location	Depth	Matrix	Order	Head space	TLC
JSS-0192-1001	South wall	4'	Soil	yes	NO	over 1000
JSS-0192-1002	South wall	6'	Soil	slite	NO	over 200
JSS-0192-1003	East wall	6'	Soil	yes	NO	over 3000
JSS-0192-1004	West wall	5'	Soil	slite	NO	over 200
JSS-0192-1005	Bottom	7'	Soil	slite	NO	over 200
JSS-0192-1006	South wall	5'	Soil	none	NO	none
JSS-0192-1007	West wall	5'	Soil		NO	
JSS-0192-1008	East wall	5'	Soil		NO	
JSS-0192-1009	North wall	5'	Soil		NO	
JSS-0192-1010	Bottom	8'	Soil		NO	
JSS-0192-1011	Groundwater	10'	Soil		NO	
JSS-0192-1012	North Wall Gas	6'	Soil	slite	NO	
JSS-0192-1013	Bottom of Gas	4'	Soil	slite	NO	

APPENDIX B
Laboratory Reports & Chain of Custody

White Shield, Inc.
P.O. Box 477
Grandview, WA 98930
Attention: Jerry Steel

Client Project ID: JSS-0192
Matrix Descript: Soil
Analysis Method: WTPH-D
First Sample #: 208-1206

Sampled: Aug 22, 1992
Received: Aug 25, 1992
Extracted: Aug 31, 1992
Analyzed: Sep 8-10, 1992
Reported: Sep 11, 1992

TOTAL PETROLEUM HYDROCARBONS (WTPH-D)

Sample Number	Sample Description	Extractable Hydrocarbons mg/kg (ppm)	Surrogate Recovery %
208-1206	JSS-0192-1006	1,000	82
208-1207	JSS-0192-1007	72	73
208-1208	JSS-0192-1008	N.D.	110
208-1209	JSS-0192-1009	750	77
208-1210	JSS-0192-1010	N.D.	60
BLK083192	Method Blank	N.D.	77

Detection Limits:
10

Extractable Hydrocarbons are quantitated as Diesel Range Organics (nC12 - nC24). Surrogate recovery reported is for 2-Fluorobiphenyl. Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL inc

Scot Cocanour
Laboratory Director

White Shield, Inc.	Client Project ID: JSS-0192	Sampled: Aug 22, 1992
P.O. Box 477	Matrix Descript: Soil	Received: Aug 25, 1992
Grandview, WA 98930	Analysis Method: WTPH-G	Analyzed: Sep 3, 1992
Attention: Jerry Steel	First Sample #: 208-1211	Reported: Sep 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS (WTPH-G)

Sample Number	Sample Description	Volatile Hydrocarbons mg/kg (ppm)	Surrogate Recovery %
208-1211	JSS-0192-1011	4,500	106
208-1212	JSS-0192-1012	16,000	125
BLK090392	Method Blank	N.D.	74

Detection Limits:**1.0**

Volatile Hydrocarbons are quantitated as Gasoline Range Organics (nC7 - nC12). Surrogate recovery reported is for Bromofluorobenzene. Analytes reported as N.D. were not present above the stated limit of detection.

NORTH CREEK ANALYTICAL inc
Scot Cocanour
Laboratory Director

2081206.WWW <2>

White Shield, Inc.
P.O. Box 477
Grandview, WA 98930
Attention: Jerry Steel

Client Project ID: JSS-0192
Sample Descript: Water, JSS-0192-2001
Analysis Method: EPA 602
Sample Number: 208-1213

Sampled: Aug 22, 1992
Received: Aug 25, 1992
Analyzed: Sep 3, 1992
Reported: Sep 11, 1992

PURGEABLE AROMATICS (EPA 602)

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Benzene.....	0.50	3,700
Ethyl Benzene.....	0.50	5,900
Toluene.....	0.50	16,000
Xylenes.....	0.50	27,000

4-Bromofluorobenzene Surrogate Recovery, %:

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

NORTH CREEK ANALYTICAL inc



Scot Cocanour
Laboratory Director

White Shield, Inc.
P.O. Box 477
Grandview, WA 98930
Attention: Jerry Steel

Client Project ID: JSS-0192
EPA Method: 5030/8020
Sample Matrix: Water
Units: $\mu\text{g/L}$ (ppb)
QC Sample #: 208-1332

Analyst: R. Lister
K. Wilke
Analyzed: Sep 3, 1992
Reported: Sep 11, 1992

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Sample Conc.:	3.1	N.D.	1.1	3.7
Spike Conc. Added:	5.0	5.0	5.0	15.0
Conc. Matrix Spike:	7.8	5.3	6.6	18.8
Matrix Spike % Recovery:	94	106	110	101
Conc. Matrix Spike Dup.:	7.7	5.5	6.7	19.2
Matrix Spike Duplicate % Recovery:	92	110	112	103
Relative % Difference:	1.3	3.7	1.5	2.1

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Scot Cocanour
Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

White Shield, Inc.
P.O. Box 477
Grandview, WA 98930
Attention: Jerry Steel

Client Project ID: JSS-0192
EPA Method: WTPH-D
Sample Matrix: Soil
Units: mg/kg (ppm)

Analyst: L. Dutton
Extracted: Aug 31, 1992
Analyzed: Sep 3, 1992
Reported: Sep 11, 1992

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Diesel

Spike Conc.
Added: 67

Spike
Result: 57

%
Recovery: 85

Upper Control
Limit %: 120

Lower Control
Limit %: 80

PRECISION ASSESSMENT Sample Duplicate

Extractable
Hydrocarbons

Sample
Number: 208-1325

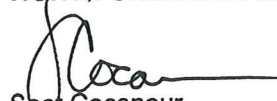
Original
Result: 590

Duplicate
Result: 540

Relative
% Difference 9

Maximum
RPD: 50

NORTH CREEK ANALYTICAL inc


Scott Cocanour
Laboratory Director

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

White Shield, Inc.
P.O. Box 477
Grandview, WA 98930
Attention: Jerry Steel

Client Project ID: JSS-0192
EPA Method: WTPH-G
Sample Matrix: Soil
Units: mg/kg (ppm)

Analyst: R. Lister
K. Wilke
Analyzed: Sep 3, 1992
Reported: Sep 11, 1992

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample

Gasoline

Spike Conc.
Added: 100

Spike
Result: 95

%
Recovery: 95

Upper Control
Limit %: 120

Lower Control
Limit %: 80

PRECISION ASSESSMENT Sample Duplicate

Volatile
Hydrocarbons

Sample
Number: 2081191

Original
Result: N.D.

Duplicate
Result: N.D.

Relative
% Difference
Relative Percent Difference values are not reported
at sample concentrations of less than ten times the
detection limit.

Maximum
RPD: 50

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Seot Cocanour
Laboratory Director

% Recovery:	$\frac{\text{Spike Result}}{\text{Spike Concentration Added}} \times 100$
Relative % Difference:	$\frac{\text{Original Result} - \text{Duplicate Result}}{(\text{Original Result} + \text{Duplicate Result}) / 2} \times 100$

White Shield, Inc.
P.O. Box 477
Grandview, WA 98930
Attention: Jerry Steel

Client Project ID: JSS-0192
Sample Descript: Method Blank
Analysis Method: EPA 602
Sample Number: BLK090392

Analyzed: Sep 3, 1992
Reported: Sep 11, 1992

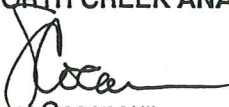
PURGEABLE AROMATICS (EPA 602)

Analyte	Detection Limit $\mu\text{g/L}$ (ppb)	Sample Results $\mu\text{g/L}$ (ppb)
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Toluene.....	0.50	N.D.
Xylenes.....	0.50	N.D.

4-Bromofluorobenzene Surrogate Recovery, %:

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

NORTH CREEK ANALYTICAL inc


Scot Cocanour
Laboratory Director

APPENDIX C
Method A Soil
and
Groundwater Cleanup Levels

Method A Cleanup Levels - Soil ^a

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	20.0 mg/kg ^b
Benzene	71-43-2	0.5 mg/kg ^c
Cadmium	7440-43-9	2.0 mg/kg ^d
Chromium	7440-47-3	100.0 mg/kg ^e
DDT	50-29-3	1.0 mg/kg ^f
Ethylbenzene	100-41-4	20.0 mg/kg ^g
Ethylene dibromide	106-93-4	0.001 mg/kg ^h
Lead	7439-92-1	250.0 mg/kg ⁱ
Lindane	58-89-9	1.0 mg/kg ^j
Methylene chloride	75-09-2	0.5 mg/kg ^k
Mercury (inorganic)	7439-97-6	1.0 mg/kg ^l
PAHs (carcinogenic)		1.0 mg/kg ^m
PCB Mixtures		1.0 mg/kg ⁿ
Tetrachloroethylene	127-18-4	0.5 mg/kg ^o
Toluene	108-88-3	40.0 mg/kg ^p
TPH (gasoline)		100.0 mg/kg ^q
TPH (diesel)		200.0 mg/kg ^r
TPH (other)		200.0 mg/kg ^s
1,1,1 Trichloroethane	71-55-6	20.0 mg/kg ^t
Trichloroethylene	79-01-5	0.5 mg/kg ^u
Xylenes	1330-20-7	20.0 mg/kg ^v

Table 1
Method A Cleanup Levels - Ground Water^a

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	5.0 ug/liter ^b
Benzene	71-43-2	5.0 ug/liter ^c
Cadmium	7440-43-9	5.0 ug/liter ^d
Chromium (Total)	7440-47-3	50.0 ug/liter ^e
DDT	50-29-3	0.1 ug/liter ^f
1,2 Dichloroethane	107-06-2	5.0 ug/liter ^g
Ethylbenzene	100-41-4	30.0 ug/liter ^h
Ethylene dibromide	106-93-4	0.01 ug/liter ⁱ
Gross Alpha Particle Activity		15.0 pCi/liter ^j
Gross Beta Particle Activity		4.0 mrem/yr ^k
Lead	7439-92-1	5.0 ug/liter ^l
Lindane	58-89-9	0.2 ug/liter ^m
Methylene chloride	75-09-2	5.0 ug/liter ⁿ
Mercury	7439-97-6	2.0 ug/liter ^o
PAHs (carcinogenic)		0.1 ug/liter ^p
PCB mixtures		0.1 ug/liter ^q
Radium 226 and 228		5.0 pCi/liter ^r
Radium 226		3.0 pCi/liter ^s
Tetrachloroethylene	127-18-4	5.0 ug/liter ^t
Toluene	108-88-3	40.0 ug/liter ^u
Total Petroleum Hydrocarbons		1000.0 ug/liter ^v
1,1,1 Trichloroethane	71-55-6	200.0 ug/liter ^w
Trichloroethylene	79-01-5	5.0 ug/liter ^x
Vinyl chloride	75-01-4	0.2 ug/liter ^y
Xylenes	1330-20-7	20.0 ug/liter ^z

APPENDIX D
Underground Storage Tank
Site Check/Site Assessment Checklist



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator:	Jerry's Steel		
Owners Address:	232 N. Sixth Street		
	Street	City	State
	Sunnyside	WA	98944
	City	State	ZIP-Code
Telephone:	(509) 837-6143		
Site ID Number (on invoice or available from Ecology if tank is registered):	010748		
Site/Business Name:	Jerry's Steel		
Site Address:	232 N. 6th Street		
	Street	City	State
	Sunnyside	WA	98944
	City	State	ZIP-Code

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person:	Bryan Mull		
Address:	White Shield, Inc		
	Street	City	State
	Grandview	WA	98930
	City	State	ZIP-Code
Telephone:	(509) 882-1144		

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): 1 2. Year installed: 1984
3. Tank capacity in gallons: 1000 4. Last substance stored: Diesel

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ☐ Investigate suspected release due to on-site environmental contamination
☐ Investigate suspected release due to off-site environmental contamination
☐ Extend temporary closure of UST system for more than 12 months
☐ UST system undergoing change-in-service
☒ UST system permanently closed-in-place
☐ UST system permanently closed with tank removed
☐ Required by Ecology or delegated agency for UST system closed before December 22, 1988
☐ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	<u>Bm</u>	
2. Has a release from the UST system been confirmed? <small>NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.</small>	<u>Bm</u>	
3. Are the results of the site check/site assessment enclosed with this checklist? <small>NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.</small>	<u>Bm</u>	

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

9-23-92
Date

Bryan L. Mull
Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

Date

Signature of Tank Owner or Authorized Representative



UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

The purpose of this form is to certify the proper investigation of an UST site for the presence of a release. These activities shall be conducted in accordance with Chapter 173.360 WAC. A description of the various situations requiring a site check or site assessment is provided in the guidance document for UST site checks and site assessments.

This Site Check/Site Assessment Checklist shall be completed and signed by a person registered with the Department of Ecology to perform site assessments.

Two copies of the results of the site check or site assessment should be included with this checklist according to the reporting requirements in the guidance document for UST site checks and site assessments.

For further information about completing this form, please contact the Department of Ecology UST Program.

The completed checklist should be mailed to the following address:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

UST Owner/Operator:

Jerry's Steel

Owners Address:

232 N. Sixth Street

Street

Sunnyside

City

WA

State

P.O. Box

98944

ZIP-Code

Telephone:

(509) 837-6143

Site ID Number (on invoice or available from Ecology if tank is registered):

0107A8

Site/Business Name:

Jerry's Steel

Site Address:

232 N. Sixth Street

Street

Sunnyside

City

WA

State

County

98944

ZIP-Code

2. SITE CHECK/SITE ASSESSMENT CONDUCTED BY:

Registered Person:

Bryan Mull

Address:

White Shield, Inc

Street

Grandview

City

WA

State

P.O. Box 477

P.O. Box

98930

ZIP-Code

Telephone:

(509) 882-1144

3. TANK INFORMATION

1. Tank ID Number (as registered with Ecology): N/A
2. Year installed: 1972
3. Tank capacity in gallons: 500
4. Last substance stored: Gasoline

4. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- ☐ Investigate suspected release due to on-site environmental contamination
- ☐ Investigate suspected release due to off-site environmental contamination
- ☐ Extend temporary closure of UST system for more than 12 months
- ☐ UST system undergoing change-in-service
- ☒ UST system permanently closed-in-place
- ☐ UST system permanently closed with tank removed
- ☐ Required by Ecology or delegated agency for UST system closed before December 22, 1988
- ☐ Other (describe): _____

5. CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	Yes	No
1. Has the site check/site assessment been conducted according to applicable procedures specified in the UST site check/site assessment guidance issued by the Department of Ecology?	<input checked="" type="checkbox"/> Bm	<input type="checkbox"/>
2. Has a release from the UST system been confirmed? <i>NOTE: Owners/operators must report all confirmed releases to the Department of Ecology or delegated agency within 24 hours.</i>	<input checked="" type="checkbox"/> Bm	<input type="checkbox"/>
3. Are the results of the site check/site assessment enclosed with this checklist? <i>NOTE: Two copies of the site check/site assessment results must be submitted to the Department of Ecology according to the reporting requirements specified in the UST site check/site assessment guidance.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above.
Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

9-23-92
Date

[Signature]
Signature of Person Registered with Ecology

6. OWNER'S SIGNATURE

Date

Signature of Tank Owner or Authorized Representative

APPENDIX E
Underground Storage Tank
Permanent Closure/Change-In-Service Checklist



UNDERGROUND STORAGE TANK

Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: Jerry's Steel

Owners Address: 232 N Sixth Street
Street
Sunnyside WA P.O. Box
City State 98544
ZIP-Code

Telephone: (509) 837-643

Site ID Number (on invoice or available from Ecology if tank is registered): 010748

Site/Business Name: Jerry's Steel

Site Address: 232 N 6th Street
Street
Sunnyside WA Yakima
City State 98544
County ZIP-Code

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: White Shield License Number: _____

Address: 246 Division P.O. Box 477
Street P.O. Box
Grandview WA 98530
City State ZIP-Code

Telephone: (509) 882-1144

Licensed Supervisor: Bryan Mull Decommissioning License Number: W001623

This page must be completed separately for each tank permanently closed (decommissioned) or change-in-service at the site. For additional tanks you may photocopy this form or to completing.

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): 1
2. Year installed: 1984
3. Tank capacity in gallons: 1000
4. Date of last use: 1990
5. Last substance stored: Diesel
6. Date of closure/change-in-service: _____
7. Type of closure: Closure with Tank Removal ☒ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance: _____
9. If change-in-service, indicate new substance stored in tank: _____
10. Local permit(s) (if any) obtained from: _____
11. Has a site assessment been completed? Yes ☒ No ☐

Always contact local authorities regarding permit requirements.

Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	X		
2. Has all product piping been capped or removed?	X		
3. Have all non-product lines been capped or removed?	X		
4. Have all liquid and accumulated sludges been removed from the tank?	X		
5. Has the tank been properly purged or inerted?	X		
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	X		
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	X		
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	X		
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?		X	

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

9-23-92

Date

[Signature]
Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

9-23-92

Date

[Signature]
Signature of Licensed Service Provider (firm) Owner or Authorized Representative

Date

[Signature]
Signature of Tank Owner or Authorized Representative



UNDERGROUND STORAGE TANK Permanent Closure/Change-In-Service Checklist

The purpose of this form is to certify the proper closure/change-in-service of underground storage tank (UST) systems. These activities must be conducted in accordance with Chapter 173.360 WAC. Washington State UST rules require the tank owner or operator to notify Ecology in writing 30 days prior to closure or change-in-service of tanks. This must be done by completing the 30 Day Notice form (ECY 010-155).

This Permanent Closure Checklist shall be completed and signed by a Licensed Decommissioning Supervisor. The supervisor shall be on site when all tank permanent closure/change-in-service activities are being conducted. The firm which employs the licensed supervisor shall also be licensed by the Washington State Department of Ecology as a Service Provider. If any of the activities listed below have been supervised by a different licensed supervisor, a separate checklist must be filled out and signed by the licensed supervisor performing those activities.

For further information about completing this form, please contact the Department of Ecology UST Program.

A separate checklist must be completed for each UST system (tank and associated piping), except that UST systems at one site may be reported together by completing page 2 of this form separately for each system. The completed checklist should be mailed to the following address within 30 days of the completion of the closure or change-in-service.

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11
Olympia, WA 98504-8711

1. UST SYSTEM OWNER AND LOCATION

Site Owner/Operator: Jerry's Steel

Owners Address: 232 N. Sixth Street
Street
Sunny Side WA 98944
City State ZIP-Code

Telephone: (509) 837-6143

Site ID Number (on invoice or available from Ecology if tank is registered): 010748

Site/Business Name: Jerry's Steel

Site Address: 232 N 6th Street Yakima
Street County
Sunny side WA 98944
City State ZIP-Code

2. TANK PERMANENT CLOSURE/CHANGE-IN-SERVICE PERFORMED BY:

Firm: White Shred License Number: _____

Address: P.O. Box 477 P.O. Box 477
Street P.O. Box
Grandview WA 98930
City State ZIP-Code

Telephone: (509) 882-1144

Licensed Supervisor: Bryan L. Mum Decommissioning License Number: W001623

3. TANK CLOSURE/CHANGE-IN-SERVICE INFORMATION

1. Tank ID Number (as registered with Ecology): N/A
2. Year installed: 1972
3. Tank capacity in gallons: 500
4. Date of last use: 1982
5. Last substance stored: Gas
6. Date of closure/change-in-service: _____
7. Type of closure: Closure with Tank Removal ☒ In-place Closure ☐ Change-in-Service ☐
8. If in-place closure is used, the tank has been filled with the following substance: _____
9. If change-in-service, indicate new substance stored in tank: _____
10. Local permit(s) (if any) obtained from: _____
Always contact local authorities regarding permit requirements.
11. Has a site assessment been completed? Yes ☒ No ☐
Unless an external release detection system is operating at the time of closure or change in service, and a report is provided as specified in WAC 173-360-390, a site assessment must be conducted. This site assessment must be conducted by a person registered with the Department of Ecology to perform site assessments. Results of the site assessment must be included with the Site Assessment Checklist (ECY 010-158).

4. CHECKLIST

Each item of the following checklist shall be initialed by the licensed supervisor whose signature appears below.

	Yes	No	NA*
1. Has all liquid been removed from product lines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has all product piping been capped or removed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Have all non-product lines been capped or removed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Have all liquid and accumulated sludges been removed from the tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Has the tank been properly purged or inerted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Have the drop tube, fill pipe, gauge pipe, pumps and other tank fixtures been removed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Have all tank openings been plugged or capped? NOTE: One plug should have 1/8 inch vent hole.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Have all sludges removed from the tank been designated and disposed of in accordance with the state of Washington's dangerous waste regulations (Chapter 173-303 WAC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. If removed, was tank properly labeled and disposed of in accordance with all applicable local, state and federal regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*Item not applicable

I hereby certify that I have been the licensed supervisor present on site during the above listed permanent closure activities and to the best of my knowledge they have been conducted in compliance with all applicable state and federal laws, regulations and procedures pertaining to underground storage tanks.

Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

9-23-92 Date [Signature] Signature of Licensed Supervisor

5. ADDITIONAL REQUIRED SIGNATURES

9-23-92 Date [Signature] Signature of Licensed Service Provider (firm) Owner or Authorized Representative

 Date Signature of Tank Owner or Authorized Representative

APPENDIX F
Exploratory Investigation



WHITE SHIELD, INC.

P.O. BOX 477 • GRANDVIEW, WA 98930 • (509) 882-1144
FAX (509) 882-4566



June 9, 1992

Jerry's Steel Supply
232 North Sixth Street
Sunnyside, WA 98944

Attention: Harold Lee

SUBJECT: EXPLORATORY INVESTIGATION IN THE VICINITY OF TWO
UNDERGROUND STORAGE TANKS AT JERRY'S STEEL SUPPLY,
SUNNYSIDE, WASHINGTON

Dear Mr. Lee,

On May 13, 1992, White Shield, Inc. (WSI) conducted an exploratory investigation to determine if petroleum contaminated soils and/or groundwater exists in the vicinity of two (2) Underground Storage Tanks (UST's) located on the Jerry's Steel Supply property.

The investigation consisted of establishing three (3) soil borings at locations shown by Figure 1. The borings were established with a hand auger and groundwater samples were collected with an AMS soil vapor probe. A description of each soil boring (auger hole) is also attached.

Auger hole #1 was established at the northwest corner of the office building. Petroleum odors were observed at depths greater than 5.5 feet. Petroleum product was observed floating atop a groundwater sample collected from this boring.

Auger hole #2 was established approximately seven feet east of the diesel tank. Petroleum odors were observed at a depth of 8.5 feet. A petroleum sheen was observed floating atop a groundwater sample collected at this location.

Auger hole #3 was established approximately two feet west of the diesel tank. Petroleum odors and stained soils were observed throughout the entire soil boring. Petroleum product was observed floating atop a groundwater sample collected at this location.

No samples were submitted for laboratory analysis. WSI recommends submitting groundwater samples and tank content samples for fingerprint analysis. WSI also recommends removal of petroleum contaminated soils observed at the site for treatment and/or disposal and further investigation to define the extents of the contaminant plume. Floating product should be removed from the groundwater immediately.

WSI appreciates the opportunity to provide you exploratory investigation services.
Please call us at (509) 882-1144 if you have any questions or comments.

Respectfully,
WHITE SHIELD, INC.



David L. Green
Geologist

Project Number: JSS-0192

cc: lb
Jim Chulos, WSDOE Central Regional Office

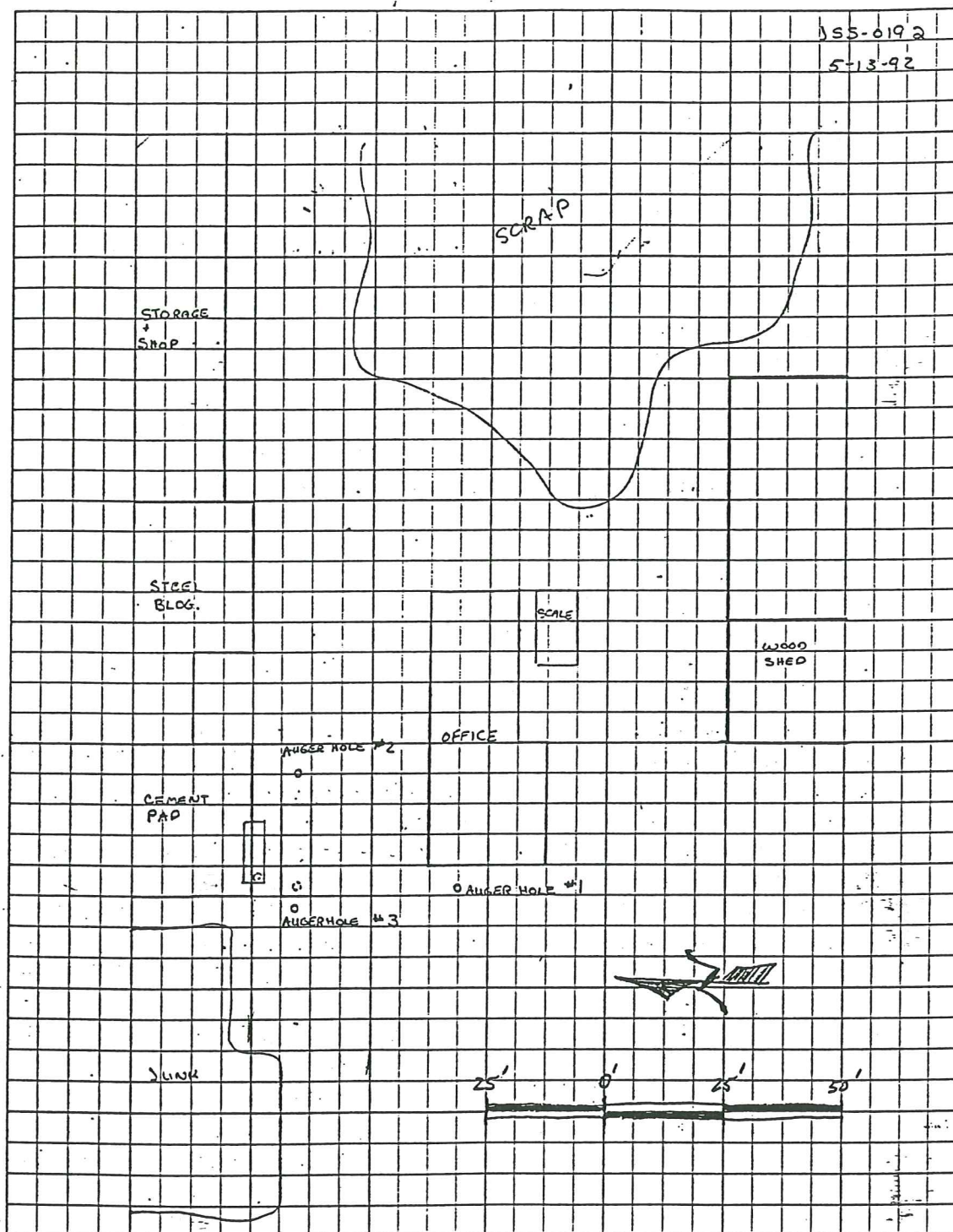


Figure 1. Site Sketch Showing Soil Boring Locations

FID
BACKGROUND 1.4

JERRY'S STEEL SUPPLY INC.

HEADSPACE RESULTS				1 JSS-0192
				CREW: ROD H. DEBBIE
				COOL 80°F OVER CMT
				5/13/92
AUGER HOLE #1				
9:40		ARRIVED ON SITE JERRY'S STEEL, SUNNYSIDE, WA.		
AUGER HOLE #1				
ASPHALT 6"		DAVE GREEN MARKED LOCATIONS FOR AUGER HOLES		
10		AUGER A.H. LOCATED 2.5" W. OF OFFICE		
3'		ROD IT. BROKE THROUGH ASPHALT AND PROCEEDED TO AUGER		
5.5'		A 3' HEADSPACE AND TLC WERE TAKEN. AT 5' COLOR		
ODOR		CHANGE IN SOIL FROM 3' TO 5' IS MEDIUM BROWN SILTY		
7.5"		SAND, AT 5.5" THE SOIL CHANGES FROM MEDIUM BROWN TO LIGHT GRAY		
H2O		SILTY SAND, ODOR PRESENT, SLIGHT DIESEL LIKE. SAMPLES TAKEN		
SHEN		HEADSPACE & TLC VIAL: H2O PRESENT AT THIS DEPTH. SAMPLES		
GAS LIKE		TAKEN GROUND H2O IS HAS FREE PRODUCT FLOATING ON IT		
		ABOUT 1/8" IN DEPTH, HEAVY GAS LIKE ODOR PRESENT @ 7.5"		
A.H. #2		AUGER HOLE #2		
ASPHALT 6"		A.H. #2 LOCATED EAST OF EASTERLY TANK APPROX 3' FROM THE END		
3'		@ 7' SOIL SMELLS CLEAN, @ 5.5" SOIL STILL SMELLS CLEAN		
5.5"		SOIL BECOMES MOIST @ ABOUT 6' AND CONTINUES TO BECOME SATURATED		
8.5'		UP TO THE 8.5" DEPTH AT WHICH POINT WE COULD SMELL		
SHEN		A GAS LIKE ODOR AND SEE A RAINBOW COLOR OF SHEN		
GAS LIKE		ON H2O 1 LITER WAS TAKEN.		
		DEBBIE & I WENT TO CENEX TO PURCHASE BENTONITE		
		TO CLOSE AUGER HOLES WE DID NOT FEEL A 3 RD AUGER HOLE		
		WAS NECESSARY BECAUSE GROUND H2O IS CONTAMINATED		
		IN A LARGE AREA SURROUNDING THE TWO TANKS THAT		
		WILL BE REMOVED FROM THE GROUND SOON!! I HOPE		
		SEALED WITH BENTONITE IN AUGER HOLES 1 & 2		
12:30		LUNCH, CENEX TRIP, BENTONITE 2 BAGS PURCHASED		
A.H. #3		TANK'S 1 DIESEL & TANK #2 APPEARS TO BE H2O, SAMPLED		
4:20		AUGER HOLE #3 LOCATED W. END OF DIESEL TANK, APPROX 1' FROM END WEST.		
840		SAMPLE @ 1' VISUAL CONTAMINATION APPEARS TO BE DIESEL		
1000		SAMPLE @ 3.5" VISUAL DARK GREY, APPEARS TO BE DIESEL		
3.5"		VISUAL CONTAMINATION TO TOP OF GROUND H2O IN TIRE DEPTH		