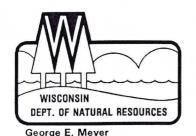
State of Wisconsin Department of Natural Resources TOXIC AND HAZARDOUS SPILL REPORT Form 4400-91 Rev. 6-86

		State Div. Emer				
		U.S. Nat'l. Respo		(608) 266-3232 (800) 424-8802	Spill II	D Number
		Chemtrec/Pestic		(800) 424-8802	95	031503
					YY	M M D D 0-99
	ay of Week	Time of Incident	□ A.M.	Reported By (Name)	11	Telephone Number
	Ned.	1400	P.M.	Van Getche	11	(608)380 21.
Date Reported Da	ay of Week	Time Reported	□ A.M.	Agency or Firm Reporting		Reported thru Div. Emergen. Gov't.
V.1.4. T. 1. 1		0	☐ P.M.	WI MATES	150	Gov't. Yes No
Substance Involved	11	Quantity	Units	Person or Firm Responsible		El m
	Florid	Overstites		Contact Name	erve,	Telephone Number
Substance Involved		Quantity	Units			
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					1	nti pu
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		on, Town, Range			. 4 4	00 B 01 - k
						oe, Damp truck
Monroe -		, TN	, R	Amount Recovered		
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	Yes	No D Po	tential	Contractor Hired; Name	1-12-11	
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Yes No	Potential			Spill Location	1134	
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0 MAR95 7	HURS	0950	☐ P.M.	Ag Coop/Facility/Cheese		
District Person Notified		Telephone Number	1			
Secretary (?)		1715128	1110	Other Small Business (ba		
Date Investigated Da	ay of Week	Time Investigate		Public Property (city, cou		
			☐ A.M.	Utility Co., Power Genera	ating/Trai	nsfer Facility
			☐ P.M.	☐ Private Property (home/fa	arm)	
erson Investigating		Telephone Number	er	Pipeline, Terminal, Tank	Farm, Oil	l Jobber/Wholesaler
			6- 1895	Transportation Accident,	Fuel Sup	oply Tank Spill
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No Action			vise/Conduct	Construction, Excavation	-	
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Spiller Required To				Spilled Substance Destination	-	
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29.29 Enforcement				Surface Water		
ther Agencies on Scene				Storm Sewer		
				☐ Sanitary Sewer		
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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East Black River Falls, WI 54615 TELEPHONE 715-284-1400 TELEFAX 715-284-1737

January 17, 1995

Secretary

File Ref: Spills-WD
Monroe County

Wisconsin State Department of Military Affairs Attn. John Jacobson P.O. Box 14587 Madison, WI 53714-0587

SUBJECT: Closure of spill remediation projects at the Mobilization and Training Site

(MATES), Spill Area #1, SEH NO.WIDOA916.00

Dear Mr. Jacobson:

The Remedial Action report prepared by Short Elliott Hendrickson Inc., dated November 1994, describes the remedial excavation and sampling which was conducted at the above referenced site. On November 3, 1994, your consultant requested case closure.

Based on the information provided in the Remedial Action report, the Department is not requiring any further investigation or other action in connection with this cleanup.

You should note that this letter does not constitute Department "certification" under s. 144.765(2)(a)3, Stats., as created by 1993 Wisconsin Act 453 (May 12, 1994). Persons who meet the definition of "purchaser" in s. 144.765(1)(c) must receive Department pre-approval prior to conducting a site investigation in order to be eligible for the liability exemption under s. 144.765, Stats. Additional information about the purchaser lability exemption can be obtained from Darsi Foss at (608) 267-6713 or Mark Giesfeldt at (608) 267-7562.

The Department appreciates the actions you have undertaken to restore the environment at this site. Please do not hesitate to contact me at (715) 284-1418 if you have any questions about this letter.

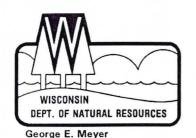
Sincerely, Patrick O Alumpar le

Patrick O. Glasspoole Environmental Specialist

cc Bill Evans - WD

Cyrus Ingraham - SEH, 421 Frenette Drive, Chippewa Falls, WI 54729

File



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East Black River Falls, WI 54615 TELEPHONE 715-284-1400 TELEFAX 715-284-1737

January 17, 1995

Secretary

File Ref: Spills-WD
Monroe County

Wisconsin State Department of Military Affairs Attn. John Jacobson P.O. Box 14587 Madison, WI 53714-0587

SUBJECT: Closure of spill remediation projects at the Mobilization and Training Site (MATES), Spill Area #1, SEH NO.WIDOA916.00

#213

9417,00

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Sincerely, Patriol O. Alumpa Co

Patrick O. Glasspoole

Environmental Specialist

cc Bill Evans - WD Cyrus Ingraham - SEH, 421 Frenette Drive, Chippewa Falls, WI 54729



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

910 Highway 54 East Black River Falls, WI 54615 TELEPHONE 715-284-1400 TELEFAX 715-284-1737

Secretary

January 17, 1995

File Ref: Spills-WD
Monroe County

Wisconsin State Department of Military Affairs Attn. John Jacobson P.O. Box 14587 Madison, WI 53714-0587

SUBJECT: Closure of spill remediation projects at the Mobilization and Training Site (MATES), Spill Area #1, SEH NO.WIDOA916.00

#4\$5

9417.00

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Sincerely, Patriol O. Hlumpon Co

Patrick O. Glasspoole Environmental Specialist

cc Bill Evans - WD
Cyrus Ingraham - SEH, 421 Frenette Drive, Chippewa Falls, WI 54729
File

	DEGET VE
WD Case Summary and Closeout	Form 44 - 9 1995
Closeout Option: (Circle one) Committee Fast Track	Site I.D. No. 2
Site Name MATES Spill Area # 1 DNR Project Manager	Timothy Baker
	h Medium Low
Type of Discharge Lust Spill Other _	Unknown
Contamination Present In Soil Groundwater Other _	Unknown
Contaminant Type <u>Diesel fuel</u> Discharge Volume <u>30</u>	gallons
Potential Receptors Soil	
• 1	liott Hendrickson Inc.
silty sand and Soil Type (s) <u>fine grained sand</u> Depth to Bedrock/Roc	k Type <u>NA</u>
Depth to Groundwater/Direction of Flow NA	
Case Summary	
In April 1994, an estimated 30 gallons of diesel fuel wa tank of a dump truck that was stored at MATES. On A excavated and stockpiled onsite by MATES personnel. SEH completion of the remedial excavation and collect soi laboratory analysis. On May 4, 1994, SEH directed excava field headspace results and field observations to contamination. Soil samples collected from the floor excavation contained no detectable concentrations of DR	pril 19, 1994, soil was was retained to oversee l samples for field and tion activities and used o determine limits of and walls of the final
Committee Recommendation:	7 7 2 2
1. Closeout SignaturesApproval	Date
or	

2. Additional work required

Degree of Contamination

	ield Analysi				. 01	
			on Concentration			
Contaminant		PM	Contamin			PPM
No detecta	able concer	ntrations o	f DRO or PVOC	s in samp	led soil	s.
Remedial action taker	า:					
A remedial excava	ation was	conducted	in the area	of the	spill N	Io. 1, ar
contaminated soil thermally treated	was excavat	ed and stoo	kpiled onsite	e. The soi	l was su	bsequent]
			1 1	,		
Groundwater:	V N	NIA	Tab Amalusas	E: al.d. A		No Data
Extent defined?	Yes No	o (NA)	Lab Analyses	rieia A	nalysis	No Data
Groundwater monitor	ring: Perm	nanent Wells	Yes No	Tempor	ary Wells	Yes No
Number of sampling	points?					
Number of sampling	points? 			A -	anlicabla	Ctandard
Number of sampling Contaminant		remediation	Concentration	Aj	pplicable ES	Standard PAL
		remediation	Concentration	Aj	•	
		remediation	Concentration	A ₁	•	
		remediation	Concentration		•	
		remediation	Concentration	A ₁	•	
		remediation	Concentration	A ₁	•	
	Post-	remediation	Concentration	A ₁	•	
Contaminant	Post-				ES	
Contaminant Remedial action taker	Post-				ES	

JAN - 9 1995

DNR-BRE

C/ose

MATES Spill Area #1

Remedial Action Report

Fort McCoy, Wisconsin

SEH No. WIDOA9416.00

November 1994

SHORT ELLIOTT HENDRICKSON INC.





421 FRENETTE DRIVE, CHIPPEWA FALLS, WI 54729 715 723-8506 800 472-5881

ARCHITECTURE • ENGINEERING • ENVIRONMENTAL • TRANSPORTATION

November 3, 1994

RE: MATES Spill Area #1 Fort McCoy, Wisconsin Remedial Action Report SEH No. WIDOA9416.00

Mr. Timothy Baker, Hydrogeologist Wisconsin Department of Natural Resources 910 Highway 54 East Black River Falls, WI 54615

Dear Mr. Baker:

On behalf of the Wisconsin State Department of Military Affairs, Short Elliott Hendrickson Inc. (SEH) is submitting the enclosed "Remedial Action Report - MATES Spill Area #1", dated November 1994. This report is being submitted to the Wisconsin Department of Natural Resources (WDNR) to describe the remedial excavation and sampling which was conducted at the Mobilization and Training Equipment Site (MATES) located at 242 East G Street in Fort McCoy, Wisconsin on May 4, 1994.

SEH respectfully requests that WDNR prepare a written response to the conclusions and recommendations presented in this report. If you have any questions regarding the report content, please feel free to contact us.

Sincerely

Yrus Ingraham, P.E.

Project Manager

ls

Enclosure

c: Jon Jacobson

Bob Cordner

Adjunx

Distribution List

No. of Copies	Sent to
1	Timothy Baker, Hydrogeologist
	Wisconsin Department of Natural Resources
	910 Highway 54 East
	Black River Falls, WI 54615
1	Jon Jabobson, Environmental Specialist
	The Adjustment General
	Wisconsin State Department of Military Affairs
	Madison, WI 53714-0581
1	CW3 Cordner
•	MATES WIARNG
	242 East G Street
	Fort McCoy, WI 54656
1	Cyrus Ingraham, P.E., Project Manager
	Short Elliott Hendrickson Inc.
	421 Frenette Drive
	Chippewa Falls, WI 54729
	Chippetra rans, 11104/25

Remedial Action Report

MATES Spill Area #1 Fort McCoy, Wisconsin

Prepared for: Wisconsin State Department of Military Affairs Madison, Wisconsin

> Prepared by: Short Elliott Hendrickson Inc. **421 Frenette Drive** Chippewa Falls, WI 54729 (715) 723-8506

Cyrus Ingraham, P.E. Project Manager

Environmental Scientist

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Appendix C Thermal Treatment Application

Remedial Action Report

MATES Spill Area #1

Fort McCoy, Wisconsin

1.0 Introduction

Short Elliott Hendrickson Inc. (SEH) initiated a remedial excavation at the MATES Spill Area #1 on May 4, 1994. Soil contamination occurred as a result of a petroleum release from a saddle tank of a dump truck stored onsite. The extent of petroleum contamination was determined through the performance of the remedial excavation.

1.1 Purpose

The purpose of this remedial action was to remove contaminated soil from the site to protect the environment and restore the site to the extent practicable.

1.2 Scope of Work

The Scope of Work for this Remedial Action included the following:

- Documentation of excavation of 30 cubic yards of contaminated soil with soil classification during excavation (color, grain size, staining and odor) and headspace analysis;
- Collection of soil samples from the walls and floor of the final excavation to document the condition of remaining soil at the site; and,
- Preparation of this report describing results of the remedial action and providing additional recommendations for the site.

2.0 Background

The project site is a Mobilization and Training Equipment Site (MATES) under lease from the federal government and is located at 242 East G Street in Fort McCoy, Wisconsin as shown in Figure 1, "Site Location". The site is located in the SW 1/4 of the SE 1/4 of Section 13, T18N, R3W.

In April 1994, an estimated 30 gallons of diesel fuel were released from a saddle tank of a dump truck that was stored at MATES. The WDNR was subsequently notified of the petroleum release. On April 19, 1994, soil was excavated and stockpiled onsite by MATES personnel. Soil samples were not collected from the final excavation at that time.

In May, SEH was retained to oversee completion of the remedial excavation and collect soil samples for field and laboratory analysis. The excavation at the Spill Area #1, shown in Figure 2, "Site Plan", was completed and limits of contamination were defined on May 4, 1994. SEH used field headspace results and field observations to determine excavation limits and collected soil samples to confirm field results.

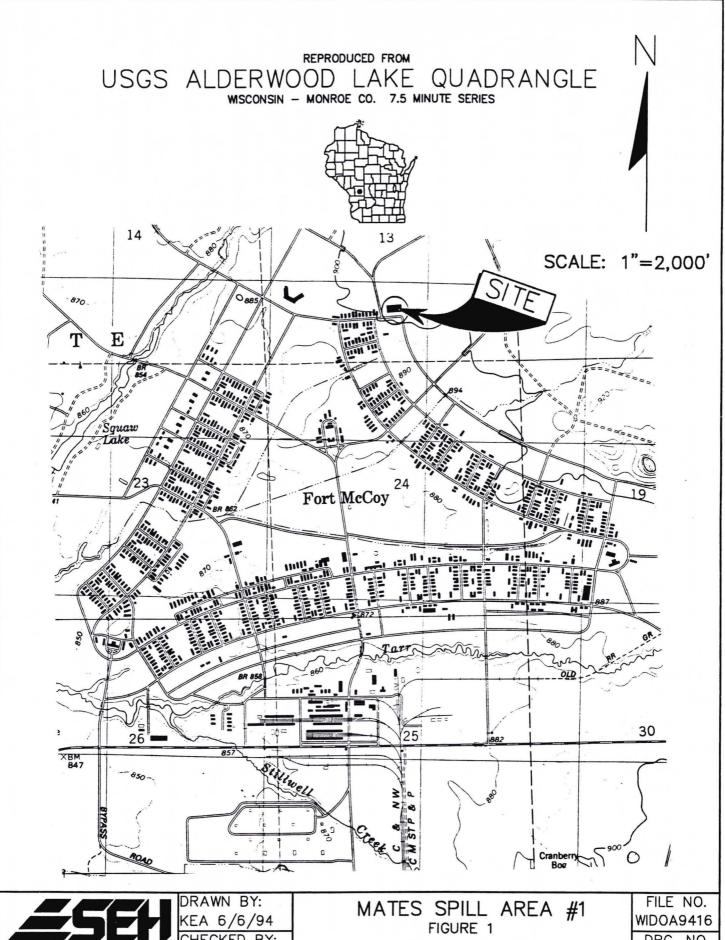
3.0 Remedial Excavation

Approximately 10 cubic yards of contaminated soil was initially excavated and stockpiled onsite in April 1994. An additional 20 cubic yards was excavated and stockpiled onsite on May 4, 1994 under guidance from SEH. Excavation was performed by MATES personnel with a pay loader and a backhoe. The Spill Area #1 excavation was located in a fenced equipment storage area south of the MATES facility as shown in Figure 2. The excavation reached a depth of approximately 4 feet and groundwater was not encountered. Approximate dimensions of the final excavation are shown on Figure 3, "Sample Locations". Onsite native soils consist of approximately one half foot of fine grain white sand (SP) over brown silty sand (SM). The excavation was left open until confirmatory analytical sample results were obtained and was subsequently backfilled with clean granular materials.

4.0 Post Excavation Sampling and Analysis

4.1 Method

Soil samples were collected from the walls and floor of the final excavation at approximate locations shown on Figure 3. A flame ionization detector (FID) was used to screen soil samples. Standard procedures for meter calibration, field screening, and soil sampling are included in Appendix A, "SEH Standard Operating Procedures".

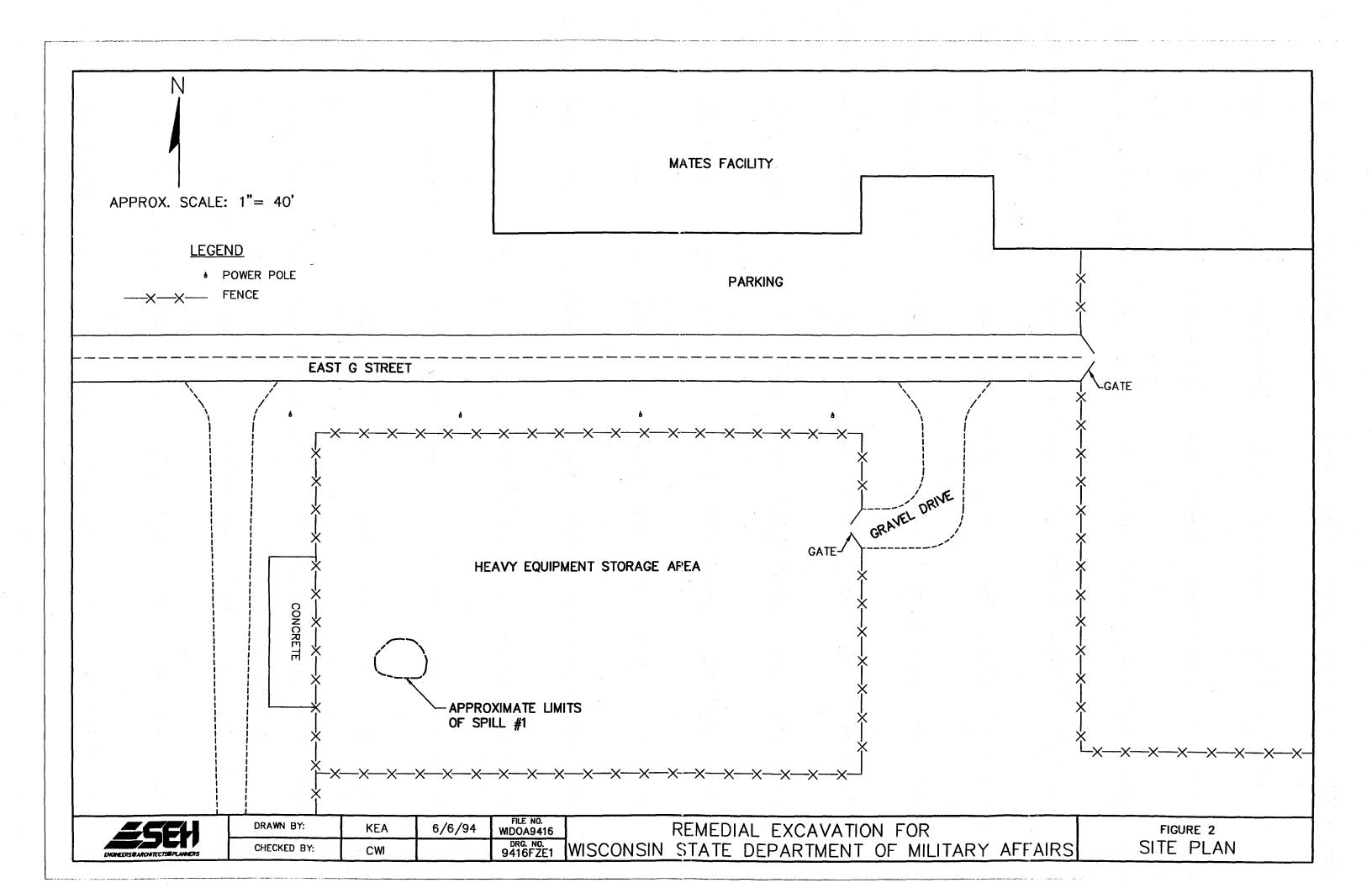


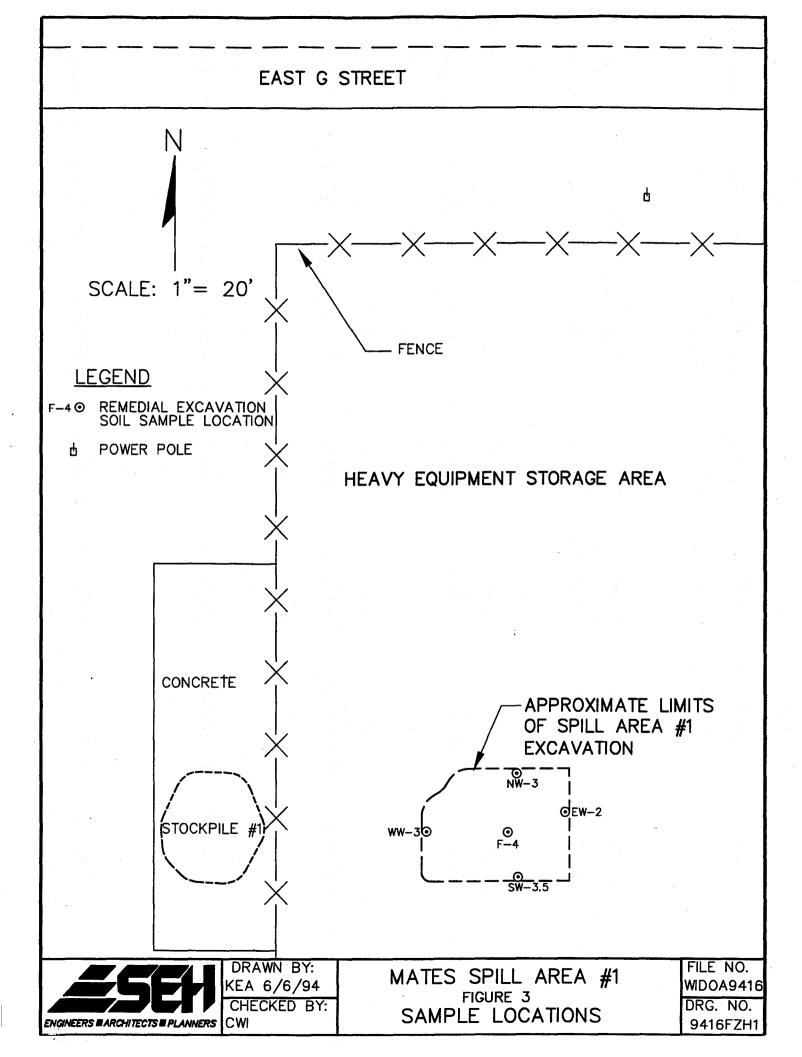
ENGINEERS ■ ARCHITECTS ■ PLANNERS

CHECKED BY:

SITE LOCATION

DRG. NO. 9416FZA1





4.2 Laboratory Analysis

Soil analysis for this project was performed by Enviroscan Corp., according to applicable WDNR standards at the time of sample collection. The Wisconsin Lab Certification number for Enviroscan is 737053130.

4.3 Results

Analytical results are summarized in Table 1, "Results – Post Excavation Sampling" with laboratory reports included in Appendix B, "Analytical Results". DRO was not present in any soil samples collected from the floor or walls of the final excavation. PVOCs were not present in the floor sample and low levels were detected in the stockpile sample. The soil sampled from the stockpile also contained 478 $\mu g/g$ of DRO.

Table 1
Results - Post Excavation Sampling

Sample I.D.	NW-3	WW-3	EW-2.5	SW-3.5	F-4	SP-1
Depth (ft)	3	3	2.5	3.5	4	-
DRO (μg/g)	BDL	BDL	BDL	BDL	BDL	478
PVOCs (µg/g)						
Benzene		-	_	<u></u>	BDL	BDL
Ethylbenzene					BDL	BDL
MTBE			-	-	BDL	BDL
1,2,4-Trimethylbenzene		_	-		BDL	0.0279
1,3,5-Trimethylbenzene		_	-		BDL	0.0425
m- & p-Xylene	-		_ `	-	BDL	BDL
o-Xylene & Styrene		_	_		BDL	0.0098
Toluene		_			BDL	BDL
Headspace (Units)	0	0.3	0.1	0.8	0.6	35

BDL Concentrations were below detectable levels.

5.0 Conclusions

Based on the information obtained during remedial excavation activities, SEH has reached the following conclusions:

Sampled soils from the final excavation at depths of 2.5 to 4 feet contained no detectable levels of DRO. Soils sampled from the floor at 4 feet also contained no detectable concentrations of PVOCs.

Not analyzed for

- WDNR Form 4400-149, "Application to Treat or Dispose of Petroleum Contaminated Soil" is included in Appendix C, "Thermal Treatment Application". The estimated 30 cubic yards of contaminated soil was transported by Mathy Construction Company to their thermal treatment operation in La Crosse, Wisconsin.
- Soil contaminated as a result of the petroleum release in April 1994 has been excavated and will be transported offsite for thermal treatment.

6.0 Recommendations

Based on analytical results and the information obtained during the remedial excavation, SEH recommends that no additional remediation should be required at the Spill Area #1. Soils contaminated by the petroleum release at the Spill Area #1 have been remediated; therefore, we request that the project be submitted for closeout.

7.0 Limitations of Study and Report

The analysis and recommendations provided in this report are based upon the data obtained from field investigation and laboratory analyses. The conclusions and recommendations contained herein were based upon the applicable standards of our profession at the time and place this report was prepared. Other than this, no warranty is implied or intended.

Appendix A

Standard Operating Procedures

Protocol for Excavation Sampling and Investigation of Subsurface Soils – Backhoe

A backhoe is used at the site for excavating surface and subsurface soils from specific locations. This provides for visual observation of subsurface conditions, and allows for collection of soil samples at depth. Excavated soils are loaded directly onto trucks for transport to a temporary storage area before transport to a treatment facility. When possible, "clean" soils are kept separate from contaminated soils and all "clean" soils are used as backfill for the final excavation. Clean granular soils are used as backfill for the excavation after sampling is performed.

Soil samples are generally collected from varying depths to obtain representative samples. A grab sample of soil is extracted from the excavation using the backhoe bucket, and the bucket is then placed on the ground surface next to the excavation. Soil samples are obtained from the central portion of each bucket, and not from areas near the bucket surface. A sample is collected from the bucket using decontaminated stainless-steel sampling equipment. Sampling equipment used to collect the soil sample from the bucket is decontaminated between samples using a soap and water wash followed by a distilled water rinse. Visual observations are made of the native soils during excavation activities, and soil samples are classified in the field by SEH's Site Representative. Sample lithology is recorded using the Unified Soil Classification System.

During excavation and sampling activities, soils are screened for the presence of volatile organic compounds (VOCs) using a flame ionization detector (FID). VOCs are common components of a variety of environmental contaminants, including industrial solvents, petroleum products and wide range of other industrial compounds. The FID is also used to monitor ambient air concentrations at the excavation and within the work zone during the soil excavation, in accordance with SEH's Site Safety Plan. Personal protective equipment is utilized by sampling personnel during sampling, as specified in the Site Safety Plan.

Soil samples are collected in laboratory-clean glass sample containers. These are labelled with the sample designation, location, date, time and sampler. Sample collection and preservation procedures will follow the latest WDNR LUST Guidance protocol. Collected samples are preserved on ice and shipped to the contracted analytical laboratory. SEH standard chain-of-custody procedures are followed regarding the shipment and receipt of samples.

Soil Vapor Monitoring - FID

Soil vapor (headspace) measurements are made on soil samples collected by soil boring, test pit and pipe trenching activities. The field instrument used is a Foxboro Organic Vapor Analyzer (OVA) Model 128 portable flame ionization detector (FID) that has been laboratory calibrated. The FID is calibrated in the field using 100 ppm methane prior to conducting any sample measurements. This instrument provides the following analytical screening capability:

Accuracy: Based on the use of a calibration gas with operating

temperatures between 10 and 40 degrees C

within +/- 20% for 0 to 10 ppm within +/- 20% for 0 to 100 ppm within +/- 20% for 0 to 1000 ppm

Response Time:

Approximately 2 seconds for 90% of final reading

Detection Limit:

0.2 ppm methane

Response to Petroleum:

Recorded as meter deflection based on the above

referenced calibration.

The following procedure is used in determining headspace gas concentrations in each soil sample:

- 1. Half-fill one clean sealable plastic bag with the sample to be analyzed and immediately seal. Plastic bags are 10 oz. volume capacity.
- 2. Headspace is allowed to develop for 10 minutes. The bag is vigorously shaken for 15 seconds both at the beginning and end of the headspace development period. Where ambient temperatures are below 32° F (0° C), headspace development is conducted within a heated vehicle or building.
- 3. After headspace development, the plastic bag is punctured with the instrument sampling probe to a point about one-half of the headspace depth. Care is exercised to avoid uptake of water droplets or soil particles.
- 4. Following probe insertion through the plastic bag, the highest meter response is recorded as the headspace concentration.

Samples are also examined visually by an environmental professional for staining or other signs of contamination.

Appendix B

Analytical Results

ENVIROSCAN

May 16, 1994

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

Re: WIDMA9401



HORT, ELLIOTT, HENDRICKSON CHIPPENA BALLS, WI

Please find enclosed the analytical results for the samples received May 6, 1994.

The Diesel Range Organics (DRO) analysis was completed using the WI. DNR Modified DRO Method. The PVOC analyses were completed using EPA Method 8020.

The chain of custody document is enclosed. If you have any questions about the results, please call. Thank you for using Enviroscan Corp. for your analytical needs.

Sincerely,

Enviroscan Corp.

Dominic J. Bush

Senior Analytical Chemist

ANALYTICAL REPORT



Short Elliott Hendrickson, Inc.

421 Frenette Drive

Chippewa Falls , WI 54729

CUST NUMBER: WIDMA9401

SAMPLED BY: Client

DATE REC'D: 05/06/94 REPORT DATE: 05/19/94

PREPARED BY: DJB

REVIEWED BY: \W

Attn: Cy Ingraham

Modified Diesel Range Organics (DRO)

Parameter # 78919

				Analytical
	DRO	Date Ext	Date Analyzed	No.
SP-1	478. (1)	05/06/94	05/11/94	9371
F-4	x	05/06/94	05/11/94	9372
WW-3	x	05/06/94	05/11/94	9373
NW-3	x	05/06/94	05/11/94	9374
EW-2.5	x -	05/06/94	05/11/94	9375
SW-3.5	x	05/06/94	05/11/94	9376
Detection Limit	5.0			
Units	#g/g			

X = Analyzed but not detected.
Results calculated on a dry weight basis.

Notes: Only above indicated notes apply.

- (1) The chromatogram is distinct for diesel.
- (2) The chromatogram is not distinct diesel. It has characteristics of a product which has significant peaks within the DRO window.
- (3) The chromatogram is not distinct diesel. All peaks within the DRO window are quantitated.
- (4) The chromatogram also contained significant peaks outside the DRO window.
- (5) The chromatogram also contained significant peaks and a raised baseline outside the DRO window.

The replicate spike recovery of this batch of samples was found to be 115.% and 106.%.

NALYTICAL REPORT



Short Elliott Hendrickson, Inc.

421 Frenette Drive

Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDMA9401 SAMPLED BY: Client DATE REC'D: 05/06/94

REPORT DATE: 05/06/94

PREPARED BY: DJP& F REVIEWED BY: \\(\tilde{\cappa} \)

1/8

Units	Detection Limit	SP-1 05/05/94	Analyzed Date
µg/g	0.0026	X	05/09/94
μg/g	0.0052	X	05/09/94
μg/g	0.0104	x	05/09/94
μg/g	0.0052	0.0279	05/09/94
μg/g	0.0052	0.0425	05/09/94
	0.0052	x	05/09/94
	0.0052	0.0098	05/09/94
µg/g	0.0104	X	05/09/94
	μg/g μg/g μg/g μg/g	Units Limit	Units Limit 05/05/94

Analytical No.:

9371

X = Analyzed but not detected.
Results calculated on a dry weight basis.





Short Elliott Hendrickson, Inc. 421 Frenette Drive

Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDMA9401 SAMPLED BY: Client

DATE REC'D: 05/06/94 REPORT DATE: 05/13/94 PREPARED BY: DJP

REVIEWED BY:

EPA 8020	Units	Detection Limit	F-4 05/05/94	Analyzed Date
Benzene	µg/g	0.0014	X	05/09/94
Ethylbenzene	μg/g	0.0028	X	05/09/94
Methyl tert Butyl Ether	µg/g	0.0059	x	05/09/94
1,2,4-Trimethylbenzene	μg/g	0.0028	x	05/09/94
1,3,5-Trimethylbenzene	μg/g	0.0028	X	05/09/94
m- & p-Xylene	µg/g	0.0028	X	05/09/94
o-Xylene	μg/g	0.0028	X	05/09/94
Toluene	μg/g	0.0059	X	05/09/94
Analytical No.:			9372	

X = Analyzed but not detected.
Results calculated on a dry weight basis.

REQUEST FOR SERVICES



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Appendix C

Thermal Treatment Application

ROV > 6-191-

ATTACH EMISSIONS CALCULATIONS

Part II: Pronos	substituting TPH concentration (ppm or mg/kg) for "a". It may also be used to calculate VOCs. Part II: Proposed Treatment Facility							
Name of PlantMathyConstructionCo	Plant number and Model 6							
· —								
Contact Gale Jensen	DNR Facility I.D. No. 632027770							
Address Conoco Road	Distance to Nearest Residence/Business 1300 feet +							
(or location of portable plant)	Distance to Reacest Residence/pusiness							
LEAVE BLANK - DEPARTMENT (OF NATURAL RESOURCES USE ONLY							
Application Concurrence: /								
Air Management Manual State	Date O. L. 14 1994							
	Date Date							
Project Manager	Date							
Comments:								
THIS SECTION TO BE COMPLETED BY THE ASPHALI	THERMAL UNIT PROCESSING THE CONTAMINATED SOIL							
	SING IS COMPLETED							
	NOI Actual Volume of Soil Treated (tons cubic yards) 138.0							
	Actual Volding of Soil Treated Profised of Sales							
	Date of treatment $8/3/94$							
	Date of treatment $8/3/94$							
Transporter Name Allan Gerke + Sons	Date of treatment $8/3/94$							
Transporter Name Allan Gerke + Sons Circle One: Roasted and Incorporated Roas	Date of treatment $8/3/94$ Transporter License Number 10.837 sted Only							
Transporter Name Allan Gerke + Sons Circle One: Roasted and Incorporated Roas Total Benzene emissions in pounds for this batch (apply 50% desi	Date of treatment $8/3/94$ Transporter License Number $10/37$							
Transporter Name Allan Gerke + Sons Circle One: Roasted and Incorporated Roas Total Benzene emissions in pounds for this batch (apply 50% designations to date for this piant (including this batch) for	Date of treatment. $8/3/94$ Transporter License Number $/0.837$ sted Only truction factor if no after burner is used). $1/2$ this calendar year.							
Transporter Name Allan Gerke + Sons Circle One: Roasted and Incorporated Roas Total Benzene emissions in pounds for this batch (apply 50% designations to date for this piant (including this batch) for	Date of treatment $8/3/94$ Transporter License Number $10/37$ sted Only truction factor if no after burner is used)							
Circle One: Roasted and Incorporated Roas Fotal Benzene emissions in pounds for this batch (apply 50% designature of Treatment plant representative	Date of treatment $8/3/94$ Transporter License Number 10837 Sted Only truction factor if no after burner is used) 10837 This calendar year Telephone Number at Plant 108377							
Transporter Name Man Gerke + Sans Circle One: Roasted and Incorporated Roas Total Benzene emissions in pounds for this batch (apply 50% designature of treatment plant representative Mark POST BURN SAMPLE RESULTS: COMPLETE ONLY	Transporter License Number 10837 sted Only truction factor if no after burner is used) this calendar year Telephone Number at Plant. 608-783-2404 FOR SOILS NOT INCORPORATED!							
Circle One: Roasted and Incorporated Roas Total Benzene emissions in pounds for this batch (apply 50% designature of Treatment plant representative POST BURN SAMPLE RESULTS: COMPLETE ONLY Cone representative sample for each 100 cubic yards-not composit	Transporter License Number 10 \$37 sted Only truction factor if no after burner is used) this calendar year Telephone Number at Plant. 608. 783-2404 FOR SOILS NOT INCORPORATED!							
Transporter Name Alan Gerke + Sons	Transporter License Number 10837 sted Only truction factor if no after burner is used) this calendar year Telephone Number at Plant. 608-783-2404 FOR SOILS NOT INCORPORATED!							
Transporter Name Allan Gerke + Sans Circle One: Roasted and Incorporated Roasted	Transporter License Number 10837 sted Only truction factor if no after burner is used) this calendar year Telephone Number at Plant. 608-783-2404 FOR SOILS NOT INCORPORATED!							
Transporter Name Allan Gerke + Sons Circle One: Roasted and Incorporated Roas Total Benzene emissions in pounds for this batch (apply 50% desi	Date of treatment. 8/3/94 Transporter License Number 10837 sted Only truction factor if no after burner is used). 10 this calendar year. Telephone Number at Plant. 608. 783 - 2404 FOR SOILS NOT INCORPORATED! (es)							

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL ASPHALT PLANT OR OTHER TYPE OF THERMAL TREATMENT UNIT

Form 4400-149-

This form is required by the Department of Natural Resources for leaking underground storage tank sites to ensure that petroleum contaminated soil is treated or disposed of in compliance with NR 500-540, NR 158, and NR 419, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426(1), 144.74 (1), and 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

DIRECTIONS: 1) Complete parts I and II. 2) Submit the application to the DNR project manager for approval. 3) Have the treatment facility complete part III of the approved form after the soil has been treated. 4) Return the ORIGINAL form to the DNR project manager. 5) Keep a copy for your files.

Site/Facility Name	Site LD. # (for DNR use only)
Fort McCoy	
Site Address	Contact Name
Fort McCoy- Various sites for training	Kurt Brownell
City, State, Zip Code	1/4, 1/4, Section, Township, and Range
Sparta, WI 54656-5000	T17, 18, 19N; R2, 3W
The information on this form is accurate to the best of my knowledge Signature of Soil Generator	Telephone Number (include area code)
	(608) 388-2160/2363 (Kurt Brownell)
Consulting Firm Contact Llan 2. Balliett	Telephone Number
Estimated Volume Contaminated Soil McLeal 138.07 2 Tons cubic yards (circle one) Type of Petroleum Contamination (Circle): Gasoline Diesel Fuel/#2 Fuel Oil Other Contaminant concentration: One screened sample for each 15 yds³ and one laboratory analysis for registers contamination OR one laboratory analysis for each 100 yds soil shown to be contaminated during the site investigation/excavation	<pre> x sand (SP, SW)</pre>
RESULTS OF BOTH FIELD SCREENING AND LAB ANALYSE ADDITION TO THE TPH AND BENZENE INFORMATION REplacements of the complete source of the property samples on excavated soil for PECFA claims.	
Total Benzene in soil to be remediated (attach calculations)	
Total Petroleum Hydrocarbons(TPH) in soil to be remediated	(attach calculations) 105 lbs
Total TPH as DRO	

State of Wisconsin TOXIC AND HAZARDOUS SPILL REPORT Department of Natural Resources Form 4400-91 (608) 266-3232 State Div. Emergency Gov't. Spill ID Number U.S. Nat'l. Response Center (800) 424-8802 Chemtrec/Pesticides/Chlorine (800) 424-9300 Y Y M M D D 0-99 Date of Incident Day of Week Time of Incident ☐ A.M. Reported By (Name) Telephone Number 4-19-99 □ P.M. John Jacobson (608) 242 3356 Tue ☐ A.M. Reported thru Div. Emergen. Date Reported Day of Week Time Reported Agency or Firm Reporting 4-19-91 □ P.M. ☐ Yes □ No Person or Firm Responsible Substance Involved Quantity Units gal 25-30 Dent Units Contact Name Telephone Number Substance Involved Quantity 160812423356 Physical Characteristics Address - Street or Route 2400 Wright ST. ☐ Solid X Liquid Color. City, State, Zip Code Semisolid Gas Odor Madison Action Taken By Spiller Cause of Incident No Action ☐ Taken ☐ Investigate Exact Location Description (intersection, mileage, etc.) Notification Mites Containment; Type 1/41/4, 1/4, Section, Town, Range County Location Execute + stockpile Cleanup; Method Monroe ☐ Amount Recovered NE, SW, 19. T/8 N. R2 V Monitor DNR Area Groundwaters Affected DNR Dist SEH Contractor Hired; Name ___ BRF No No Yes Surface Waters Affected Name of Surface Water Other Action No No Yes Potential Spill Location Date District Day of Week Time District Notified Industrial Facility/Paper Mill/Chem. Co. Notified A.M. Gas/Service Station/Garage, Auto Dealer, Repair Shop 4-19-94 P.M. ☐ Ag Coop/Facility/Cheese Factory/Creamery Telephone Number District Person Notified Other Small Business (bank, grocery, insurance co., etc.) 1715 1284 Public Property (city, county, state, church, school, etc.) Date Investigated Day of Week Time Investigated A.M. Utility Co., Power Generating/Transfer Facility □ P.M. Private Property (home/farm) Person Investigating Telephone Number Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler ☐ Transportation Accident, Fuel Supply Tank Spill Action Taken By DNR Transportation Accident, Load Spill Supervise/Conduct No Action Construction, Excavation, Wrecking, Quarry, Mine ☐ Investigation Taken Cleanup Other Military installation Spiller Required To Spilled Substance Destination Take Action; Type ☐ Air Contractor Hired X Soil ☐ By DNR; Name Groundwater ☐ Amount Recovered ☐ Surface Water 29.29 Enforcement Storm Sewer Other Agencies on Scene Sanitary Sewer ☐ Contained/Recovered Local _ Other Person Filing This Report (print name) Mourpoole

Signature

SEH hard to myesticate & Change up

Date Signed

Federal

Additional Comments:



WD Case Summary and Closeout For Closeout Option: (Circle one) Committee Fast Track Site I.D. No. Site Name MATES Spill Areas #2 and #3 DNR Project Manager Timothy Baker 242 E. G Street Location Fort McCoy, WI 54656 High Medium Low Priority Other _____ Unknown Type of Discharge Lust Spill Soil Other _____ Contamination Present In Groundwater Unknown Contaminant Type diesel fuel/10 weight oil Discharge Volume 20 gallons/unknown Potential Receptors soil Date of Site Discovery January 1994 Consultant Short Elliott Hendrickson Inc. silty sand and Soil Type (s) <u>fine grained sand</u> Depth to Bedrock/Rock Type <u>1 - 4.5 feet/sandstone</u> Depth to Groundwater/Direction of Flow NA Case Summary Sometime after January 1994, an estimated 20 gallons of diesel fuel was released from a bulldozer which was stored north of MATES and an unknown volume of 10 weight oil was released from a light recovery vehicle. On May 17, 1994, soil was excavated and stockpiled onsite by MATES personnel. On May 19, 1994, SEH was onsite to oversee completion of the remedial excavations and collect soil samples for field and laboratory analysis. Additional excavation was required at Area #3 and this was completed on July 6, 1994. Sampled soils from the final excavations in Areas #2 and #3 at depths of 1 to 3 feet contained no significant concentrations of DRO or PVOCs. Committee Recommendation: 1. Closeout Signatures Date Approval

2. Additional work required

or

Degree of Contamination

SOIL: Extent defined?	Yes	No	NA			Area #2 - 4
Lab Analyses	Field Anal	ysis	No Data	Number	of sampling point	s? <u>Area #3 - 4</u>
		Post-reme	diation Co	ncentration		
Area #2 Contaminant		PPM Area #3		ea #3 Contan	3 Contaminant	
DRO		5.73		DRO		5.27
DRO		15.1				
Remedial action t	aken:					
Separate remedial was temporarily s Company in La C	tockpiled onsi	te and was				
GROUNDWATER: Extent defined?	Yes	No NA	Lab	Analyses	Field Analysis	No Data
Groundwater mo	nitoring: Pe	ermanent V	Vells Yes	No	Temporary Wel	ls Yes No
Number of sample	ling points?_					
Contaminant Po		Post-remediation Concentration			Applicab ES	le Standard PAL
Remedial action t		ered during	g excavation	n activities.		
I certify that, to the accurate. This recons is submitted by	nmendation for o	case closure i	is based on al		e data as of Novemb	

Closure

Closed 1/11/96

MATES Spill Areas #2 and #3

Remedial Action Report

Fort McCoy, Wisconsin

SEH No. WIDOA9417.00

November 1994

SHORT ELLIOTT HENDRICKSON INC.





421 FRENETTE DRIVE, CHIPPEWA FALLS, WI 54729 715 723-8506 800 472-5881
ARCHITECTURE • ENGINEERING • ENVIRONMENTAL • TRANSPORTATION

November 2, 1994

RE: MATES Spill Areas #2 and #3 Fort McCoy, Wisconsin Remedial Action Report SEH No. WIDOA9417.00

Mr. Timothy Baker, Hydrogeologist Wisconsin Department of Natural Resources 910 Highway 54 East Black River Falls, WI 54615

Dear Mr. Baker:

On behalf of the Wisconsin State Department of Military Affairs, Short Elliott Hendrickson Inc. (SEH) is submitting the enclosed "Remedial Action Report - MATES Spill Areas #2 and #3", dated November 1994. This report is being submitted to the Wisconsin Department of Natural Resources (WDNR) to describe the remedial excavation and sampling which was conducted at the Mobilization and Training Equipment Site (MATES) located at 242 East G Street in Fort McCoy, Wisconsin on May 17, 19, and July 6, 1994.

SEH respectfully requests that WDNR prepare a written response to the conclusions and recommendations presented in this report. A case summary and closeout form is included for your use. If you have any questions regarding the report content, please feel free to contact us.

Sincerely,

Cyrus Ingraham, P.E.

Project Manager

ls

Enclosure

c: Jon Jacobson

Dan Getchell

Distribution List

No. of Copies	Sent to
1	Timothy Baker, Hydrogeologist
	Wisconsin Department of Natural Resources
	910 Highway 54 East
	Black River Falls, WI 54615
1	Jon Jacobson, Environmental Specialist
	The Adjustment General
	Wisconsin State Department of Military Affairs
	Madison, WI 53714-0581
1	Dan Getchell
	MATES WIARNG
	242 East G Street
	Fort McCoy, WI 54656
1	Cyrus Ingraham, P.E., Project Manager
	Short Elliott Hendrickson Inc.
	421 Frenette Drive
	Chippewa Falls, WI 54729

Remedial Action Report

MATES Spill Areas #2 and #3 Fort McCoy, Wisconsin

Prepared for: Wisconsin State Department of Military Affairs Madison, Wisconsin

> Prepared by: Short Elliott Hendrickson Inc. 421 Frenette Drive Chippewa Falls, WI 54729 (715) 723-8506

Cyrus Ingraham, P.E. Project Manager

Environmental Scientist

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Appendix B Analytical Results

Appendix C Thermal Treatment Application

Remedial Action Report

MATES Spill Areas #2 and #3

Fort McCoy, Wisconsin

1.0 Introduction

Short Elliott Hendrickson Inc. (SEH) initiated two separate remedial excavations at the MATES Spill Areas #2 and #3 on May 17, 19, and July 6, 1994. Soil contamination occurred as a result of a petroleum releases from equipment stored onsite. The extent of petroleum contamination was determined through the performance of separate remedial excavations.

1.1 Purpose

The purpose of this remedial action was to remove contaminated soil from the site to protect the environment and restore the site to the extent practicable.

1.2 Scope of Work

The Scope of Work for this Remedial Action included the following:

- Documentation of excavation of approximately 28 cubic yards of contaminated soil with soil classification during excavation (color, grain size, staining and odor) and headspace analysis;
- Collection of soil samples from the walls and floor of the final excavations to document the condition of remaining soil at the site; and,
- Preparation of this report describing results of the remedial action and providing additional recommendations for the site.

2.0 Background

The remedial excavations were performed at the Mobilization and Training Equipment Site (MATES) which is located at 242 East G Street in Fort McCoy, Wisconsin as shown in Figure 1, "Site Location". The site is located in the SW 1/4 of the SE 1/4 of Section 13, T18N, R3W. MATES is operated by the State of Wisconsin Department of Military Affairs. The property is leased to the State from the federal government.

Sometime after January 1994, an estimated 20 gallons of diesel fuel was released from a bulldozer which was stored north of MATES. Also sometime after January, an unknown volume of 10 weight oil was released from a light recovery vehicle. Both releases occurred on a concrete surface that sloped north towards the grass area shown in Figure 2, "Site Plan". The WDNR was subsequently notified of the petroleum releases. On May 17, 1994, soil was excavated and stockpiled onsite by MATES personnel. Soil samples were not collected from the final excavations at that time.

On May 19, 1994, SEH was onsite to oversee completion of the remedial excavations and collect soil samples for field and laboratory analysis. Excavation and soil sampling at the Spill Area #2 (shown in Figure 2) was completed and limits of contamination were defined on May 19, 1994. Laboratory analytical results for soil samples collected at Spill Area #3 on May 19, 1994 indicated that petroleum contamination remained in the soil; therefore, additional excavation was completed and limits of contamination at Area #3 were defined on July 6, 1994. SEH used field headspace results and field observations to determine excavation limits and collected soil samples to confirm field results.

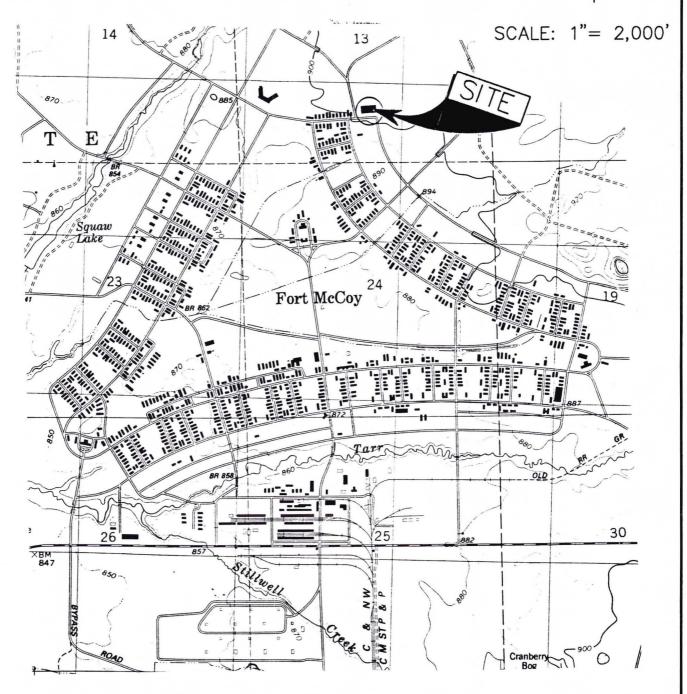
3.0 Remedial Excavation

Approximately 24 cubic yards of contaminated soil was initially excavated from both areas and stockpiled onsite on May 17 and 19, 1994. An additional 4 cubic yards was excavated from Area #3 and stockpiled onsite on July 6, 1994. Excavation was performed by MATES personnel with a backhoe. The excavations were located in a fenced equipment storage area north of the MATES facility as shown in Figure 2. The Area #2 excavation reached a depth of approximately 3 feet and groundwater was not encountered. The Area #3 excavation extended to sandstone bedrock at approximately 2.5 feet and a shovel

USGS ALDERWOOD LAKE QUADRANGLE

WISCONSIN - MONROE CO. 7.5 MINUTE SERIES



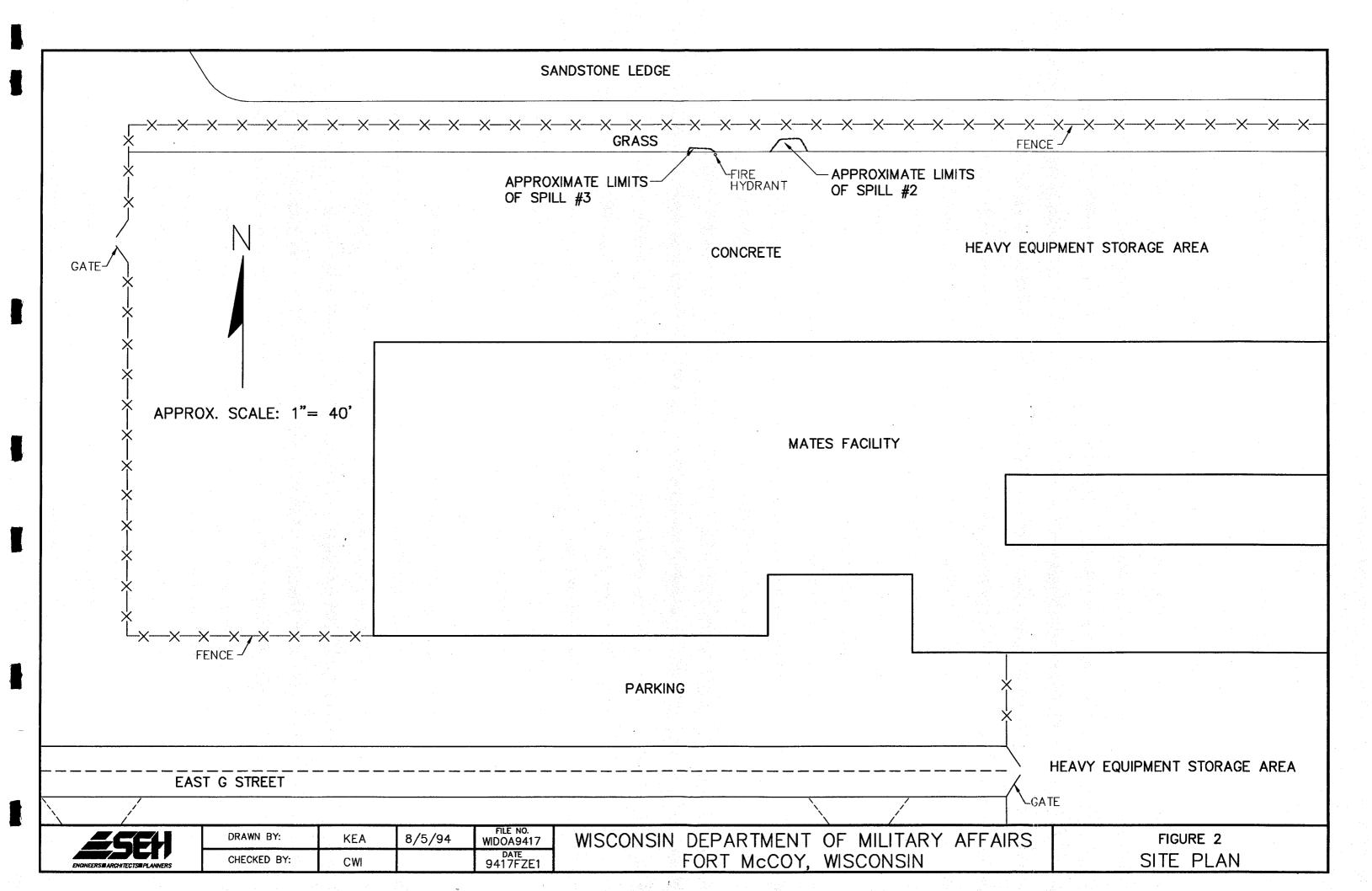


ENGINEERS PARCHITECTS PLANNERS

DRAWN BY:
KEA 8/5/94
CHECKED BY:

MATES SPILL AREAS #2 & #3
FIGURE 1
SITE LOCATION

FILE NO. WIDOA9417 DRG. NO. 9417FZA1



was used to remove contaminated soil that remained on top of the sandstone. Approximate dimensions of the final excavations are shown on Figure 3, "Sample Locations". Onsite native soils consist of approximately one half foot of dark brown silty sand and organics (SM) over fine grain white sand (SP). A sandstone ledge is located immediately north of the excavations and sandstone bedrock was encountered during excavation at varying depths as shown on Figure 4, "Cross Sections". The excavations were left open until confirmatory analytical sample results were obtained and were subsequently backfilled with clean granular materials.

4.0 Post Excavation Sampling and Analysis

4.1 Method

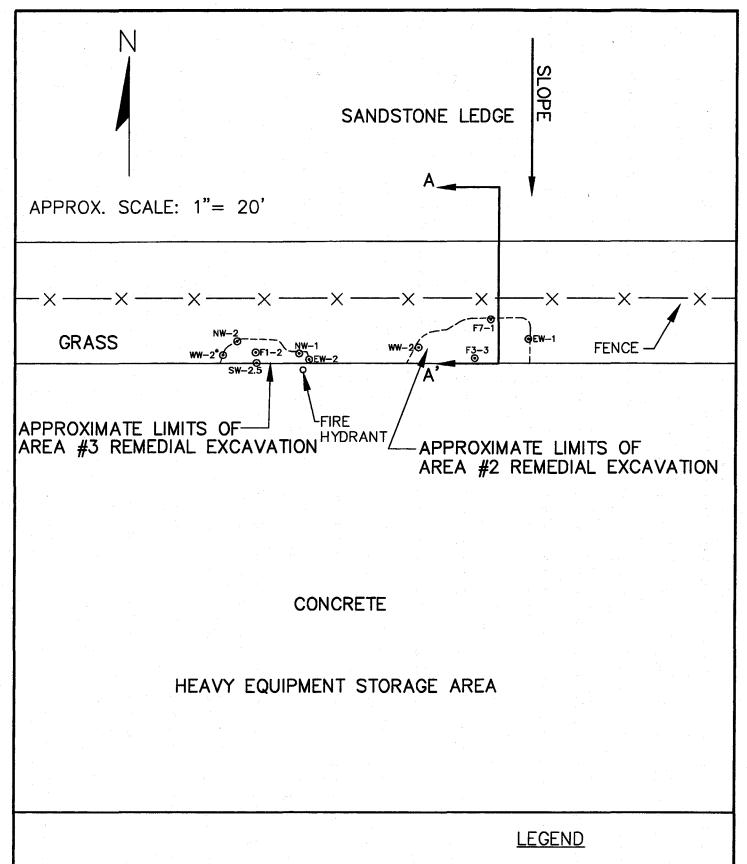
Soil samples were collected from the walls and floor of the final excavations at approximate locations shown on Figure 3. A flame ionization detector (FID) was used to screen soil samples. Standard procedures for meter calibration, field screening, and soil sampling are included in Appendix A, "SEH Standard Operating Procedures".

4.2 Laboratory Analysis

Soil analysis for this project was performed by Enviroscan Corp. of Rothschild, Wisconsin according to applicable WDNR standards at the time of sample collection. The Wisconsin Lab Certification number for Enviroscan is 737053130.

4.3 Results – Spill Area #2

Analytical results for Spill Area #2 are summarized in Table 1, "Results – Post Excavation Sampling – Spill Area #2" with laboratory reports included in Appendix B, "Analytical Results". Significant concentrations of DRO were not present in soil samples collected from the floor and walls of the final excavation. Sample EW-1 was collected from the heavy organic silty sand over the white sand and contained 15.1 μ g/g DRO. As indicated in the analytical report, the chromatogram was not distinct for diesel in sample EW-1. Sample WW-2, collected from the west wall, contained 5.73 μ g/g of DRO. PVOCs were not present in the floor sample and low levels were detected in the stockpile sample. The soil sampled from the stockpile (SP-2) also contained 341 μ g/g of DRO.



ww-2⊕ REMEDIAL EXCAVATION SOIL SAMPLE LOCATION

MATES FACILITY



MATES SPILL AREAS #2 & #3
FIGURE 3
SAMPLE LOCATIONS

FILE NO. WIDOA9417 DRG. NO. 9417FZH1

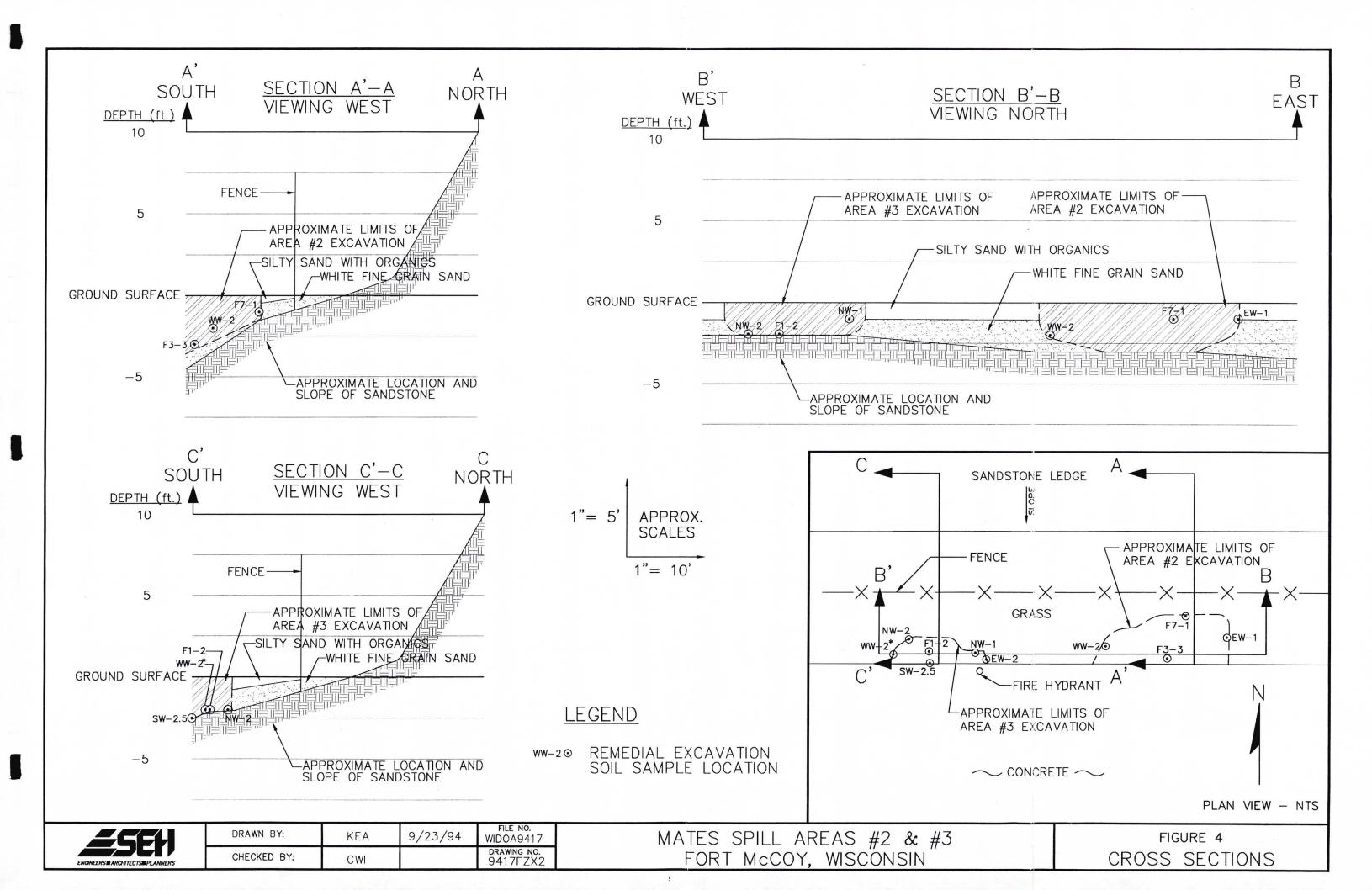


Table 1

Results - Post Excavation Sampling – Spill Area #2

Sample I.D.	WW-2	F7-1	EW-1	F3-3	SP-2
Depth (ft)	2	1 .	1	3 3	-
DRO (μg/g)	5.73	BDL	15.1	BDL	341
PVOCs (μg/g)					
Benzene	_			BDL	0.002
Ethylbenzene	-	_		BDL	0.004
МТВЕ	_	-		BDL	0.0079
1,2,4-Trimethylbenzene	-		. 	BDL	0.004
1,3,5-Trimethylbenzene				BDL	0.004
m- & p-Xylene				BDL	0.004
o-Xylene	_			BDL	0.004
Toluene	-			BDL	0.0079
FID (Instrument Units)	0.5	0.8	32.0	1.3	7.9

BDL Concentrations were below detectable levels.

4.4 Results - Spill Area #3

Analytical results for Spill Area #3 are summarized in Table 2, "Results – Post Excavation Sampling – Spill Area #3" with laboratory reports included in Appendix B. Soil samples F1-2 and NW-1 were collected on May 19, 1994 from the initial excavation. All other samples were collected from the final excavation on July 6, 1994. Sample F1-2 contained 48,700 ppm of DRO. However, Significant concentrations of DRO were not present in soil samples collected from the floor and walls of the final excavation. Soil sample SW-2.5 collected below the F1-2 sample location had the only detectable concentration of DRO at 5.27 $\mu g/g$. Soil excavated from Spill Areas #2 and #3 were stockpiled together and sample SP-2 is representative of both areas.

Not analyzed for

Table 2
Results - Post Excavation Sampling – Spill Area #3

Sample I.D.	F1-2	NW-1	EW-2	SW-2.5	NW-2	WW-2*
Depth (ft)	2	1	2	2.5	2	2
DRO (μg/g)	48,700	BDL	BDL	5.27	BDL	BDL
PVOCs (μg/g)						
Benzene	0.00659	-		·	**	
Ethylbenzene	0.0183	-				
МТВЕ	BDL	-		-		
1,2,4-Trimethylbenzene	0.228	. ==	_			- 4
1,3,5-Trimethylbenzene	0.0665	: · -				
m- & p-Xylene	0.0355	-				
o-Xylene & Styrene	0.0496		-			
Toluene	0.280	-			. ••	
Headspace (Units)	3.2	6.8	0.2	0.6	0.7	0

BDL Concentrations were below detectable levels.

Not analyzed for

5.0 Conclusions

Based on the information obtained during remedial excavation activities, SEH has reached the following conclusions:

- Sampled soils from the final excavations in Areas #2 and #3 at depths of 1 to 3 feet contained no significant concentrations of DRO or PVOCs.
- WDNR Form 4400-149, "Application to Treat or Dispose of Petroleum Contaminated Soil" is included in Appendix C, "Thermal Treatment Application". The estimated 28 cubic yards of contaminated soil was transported by Mathy Construction Company to their thermal treatment operation in La Crosse, Wisconsin.
- Soil contaminated as a result of the petroleum releases at the Spill Areas #2 and #3 have been excavated and were transported offsite for thermal treatment.

6.0 Recommendations

Based on analytical results and the information obtained during the remedial excavation, SEH recommends that no additional remediation should be required at the Spill Areas #2 and #3. Soils contaminated by the petroleum releases at the Spill Areas #2 and #3 have been remediated; therefore, we request that the project be submitted for closeout.

7.0 Limitations of Study and Report

The analysis and recommendations provided in this report are based upon the data obtained from field investigation and laboratory analyses. The conclusions and recommendations contained herein were based upon the applicable standards of our profession at the time and place this report was prepared. Other than this, no warranty is implied or intended.

Appendix A

Standard Operating Procedures

Protocol for Excavation Sampling and Investigation of Subsurface Soils – Backhoe

A backhoe is used at the site for excavating surface and subsurface soils from specific locations. This provides for visual observation of subsurface conditions, and allows for collection of soil samples at depth. Excavated soils are loaded directly onto trucks for transport to a temporary storage area before transport to a treatment facility. When possible, "clean" soils are kept separate from contaminated soils and all "clean" soils are used as backfill for the final excavation. Clean granular soils are used as backfill for the excavation after sampling is performed.

Soil samples are generally collected from varying depths to obtain representative samples. A grab sample of soil is extracted from the excavation using the backhoe bucket, and the bucket is then placed on the ground surface next to the excavation. Soil samples are obtained from the central portion of each bucket, and not from areas near the bucket surface. A sample is collected from the bucket using decontaminated stainless-steel sampling equipment. Sampling equipment used to collect the soil sample from the bucket is decontaminated between samples using a soap and water wash followed by a distilled water rinse. Visual observations are made of the native soils during excavation activities, and soil samples are classified in the field by SEH's Site Representative. Sample lithology is recorded using the Unified Soil Classification System.

During excavation and sampling activities, soils are screened for the presence of volatile organic compounds (VOCs) using a flame ionization detector (FID). VOCs are common components of a variety of environmental contaminants, including industrial solvents, petroleum products and wide range of other industrial compounds. The FID is also used to monitor ambient air concentrations at the excavation and within the work zone during the soil excavation, in accordance with SEH's Site Safety Plan. Personal protective equipment is utilized by sampling personnel during sampling, as specified in the Site Safety Plan.

Soil samples are collected in laboratory-clean glass sample containers. These are labelled with the sample designation, location, date, time and sampler. Sample collection and preservation procedures will follow the latest WDNR LUST Guidance protocol. Collected samples are preserved on ice and shipped to the contracted analytical laboratory. SEH standard chain-of-custody procedures are followed regarding the shipment and receipt of samples.

Soil Vapor Monitoring – FID

Soil vapor (headspace) measurements are made on soil samples collected by soil boring, test pit and pipe trenching activities. The field instrument used is a Foxboro Organic Vapor Analyzer (OVA) Model 128 portable flame ionization detector (FID) that has been laboratory calibrated. The FID is calibrated in the field using 100 ppm methane prior to conducting any sample measurements. This instrument provides the following analytical screening capability:

Accuracy: Based on the use of a calibration gas with operating

temperatures between 10 and 40 degrees C

within +/- 20% for 0 to 10 ppm within +/- 20% for 0 to 100 ppm within +/- 20% for 0 to 1000 ppm

Response Time:

Approximately 2 seconds for 90% of final reading

Detection Limit:

0.2 ppm methane

Response to Petroleum:

Recorded as meter deflection based on the above

referenced calibration.

The following procedure is used in determining headspace gas concentrations in each soil sample:

- 1. Half-fill one clean sealable plastic bag with the sample to be analyzed and immediately seal. Plastic bags are 10 oz. volume capacity.
- 2. Headspace is allowed to develop for 10 minutes. The bag is vigorously shaken for 15 seconds both at the beginning and end of the headspace development period. Where ambient temperatures are below 32° F (0° C), headspace development is conducted within a heated vehicle or building.
- 3. After headspace development, the plastic bag is punctured with the instrument sampling probe to a point about one-half of the headspace depth. Care is exercised to avoid uptake of water droplets or soil particles.
- 4. Following probe insertion through the plastic bag, the highest meter response is recorded as the headspace concentration.

Samples are also examined visually by an environmental professional for staining or other signs of contamination.

Appendix B

Analytical Results

RECEIVED

ENVIRONMENTAL AND ANALYTICAL SERVICES

June 8, 1994

JUN 13 1994

Short Elliott Hendrickson, Inc.
SHORT, ELLIOTT, HENDRICKSON
CHIPPEWA FALLS, WI

Attn: Cy Ingraham

Re: W1DOA9417

Please find enclosed the analytical results for the samples received May 20, 1994.

The VOC analysis was completed using a modified EPA Method 8020. The Diesel Range Organics (DRO) analysis was completed using the WI. DNR Modified DRO method.

The chain of custody document is enclosed. If you have any questions about the results, please call. Thank you for using Enviroscan Corp. for your analytical needs.

Sincerely,

Enviroscan Corp.

Michael P. Melotik Analytical Chemist



Short Elliott Hendrickson, Inc.

421 Frenette Drive

Chippewa Falls , WI 54729

CUST NUMBER: W1DOA9417 SAMPLED BY: Client DATE REC'D: 05/20/94

REPORT DATE: 06/08/94 PREPARED BY: MPM ////

REVIEWED BY:

10508

Attn: Cy Ingraham

EPA 8020 Benzene $\mu g/g$ Ethylbenzene $\mu g/g$ $\mu g/g$ 0.0018 0.00659 * 05/26/9 0.009 0.0183 0.05/26/9	d
Ethylbenzene $\mu g/g$ 0.009 0.0183 05/26/9	_
Ethylbenzene $\mu g/g$ 0.009 0.0183 05/26/9	4
	4
Methyl tert Butyl Ether μ g/g 0.018 X 05/26/9	4
1,2,4-Trimethylbenzene $\mu g/g$ 0.009 0.228 05/26/9	4
1,3,5-Trimethylbenzene $\mu g/g$ 0.009 0.0665 05/26/9	4
m- & p-Xylene $\mu g/g$ 0.009 0.0355 05/26/9	4
o-Xylene & Styrene $\mu g/g$ 0.009 0.0496 05/26/9	4
Toluene $\mu g/g$ 0.018 0.280 05/26/9	

Analytical No.:

* % Recovery for Internal Standard low



Short Elliott Hendrickson, Inc.

421 Frenette Drive

Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: W1DOA9417

Client SAMPLED BY: 05/20/94 DATE REC'D:

REPORT DATE: 06/08/94 PREPARED BY: MPM

REVIEWED BY: | []

		Units	Detection Limit	F3-3 05/19/94	Analyzed Date
	EPA 8020				
٠.,	Benzene	μg/g	0.0017	X	05/24/94
	Ethylbenzene	μg/g	0.0033	X	05/24/94
	Methyl tert Butyl Ether	μg/g	0.0066	X	05/24/94
	1,2,4-Trimethylbenzene	µg/g	0.0033	X	05/24/94
	1,3,5-Trimethylbenzene	μg/g	0.0033	x	05/24/94
	m- & p-Xylene	µg/g	0.0033	X	05/24/94
	o-Xylene	μg/g	0.0033	X	05/24/94
	Toluene	µg/g	0.0066	X	05/24/94
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Analytical No.:

10510



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: W1DOA9417
SAMPLED BY: Client
DATE REC'D: 05/20/94
REPORT DATE: 06/08/94
PREPARED BY: MPM///
REVIEWED BY:

Attn: Cy Ingraham

Units				1	Analyzed Date
µg/g		0.002	X		05/24/94
µg/g		0.004	X		05/24/94
p/g/g		0.0079	X		05/24/94
		0.004	X		05/24/94
		0.004	X		05/24/94
		0.004	X		05/24/94
· . ·		0.004	x		05/24/94
µg/g		0.0079	: X		05/24/94
	μg/g μg/g μg/g μg/g μg/g	Units µg/g µg/g µg/g µg/g µg/g µg/g µg/g µg/g	Units Limit µg/g 0.002 µg/g 0.004 µg/g 0.0079 µg/g 0.004 µg/g 0.004 µg/g 0.004 µg/g 0.004 µg/g 0.004 µg/g 0.004	Units Limit 05/19/94	μg/g 0.002 X μg/g 0.004 X μg/g 0.0079 X μg/g 0.004 X

Analytical No.:

10514



Short Elliott Hendrickson, Inc.

421 Frenette Drive

Chippewa Falls , WI 54729

CUST NUMBER: W1DOA9417

SAMPLED BY: Client

DATE REC'D: 05/20/94

REPORT DATE: 06/07/94

PREPARED BY: DJB 0 73

REVIEWED BY:

Attn: Cy Ingraham

Modified Diesel Range Organics (DRO)
Parameter # 78919

	ತ			Analytical
	DRO	Date Ext	Date Analyzed	No.
F1-2	48,700. (2,4)	05/20/94	06/02/94	10508
NW-1	X	05/20/94 -	06/02/94	10509
F 3 - 3	X	05/20/94	06/02/94	10510
EW-1	15.1 (3*,4) 05/20/94	06/02/94	10511
F7-1	X	05/20/94	05/27/94	10512
WW-2	5.73 (3,4) 05/20/94	05/27/94	10513
SP-2	341. (2,4)	05/20/94	05/27/94	10514

Detection Limit Units

5.0

µg/g

X = Analyzed but not detected.

- Results calculated on a dry weight basis.

Notes: Only above indicated notes apply.

- (1) The chromatogram is distinct for diesel.
- (2) The chromatogram is not distinct diesel. It has characteristics of a product which has significant peaks within the DRO window.
- (3) The chromatogram is not distinct for diesel. All peaks within the DRO window are quantitated. (* = One peak accounted for 54.% of the total area within the DRO window.)
- (4) The chromatogram also contained significant peaks outside the DRO window.
- (5) The chromatogram also contained significant peaks and a raised baseline outside the DRO window.

The replicate spike recovery of this batch of samples was found to be 114.% and 122.%. DRO replicate spike 2 was beyond the method control limit of 120.%.



303 W. MILITARY RD. ROTHSCHILD, WI 54474

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TERMS AND CONDITIONS

1. ORDERS

Customer may order Analytical Services by completing this form, submitting a written purchase order to Enviroscan, Inc. or by placing a telephone order which is subsequently confirmed in writing.

2. SAMPLES

When analyses only are ordered, Customer will be responsible for obtaining representative sample(s), preserving same in an appropriate manner, and forwarding them intact to Enviroscan, Inc. Customer has these responsibilities whether using own sample containers or containers provided by Enviroscan, Inc. Enviroscan, Inc. will exercise reasonable care in handling samples, but in no event shall Enviroscan's liability for loss or destruction of any sample exceed the amount paid for analysis of that particular sample.

3. CHARGES AND PAYMENT

Enviroscan, Inc. will perform Analytical Services in return for charges as outlined in our quotation, or as stated on Enviroscan's current price list. Terms of payment are Net/30 days. An additional charge of one and one half percent per month will be added to unpaid accounts.

4. WARRANTY-LIABILITY

Enviroscan, Inc. will perform Analytical Services and provide Customer with a written report of results. Notwithstanding anything herein to the contrary, liability in connection with any claim relating to Analytical Services shall be limited to, at Enviroscan's option, repeating the Services at Enviroscan's expense, or the refund of the charges paid for performance of the Services.

Except as expressly stated above, Enviroscan, Inc. makes no warranty, expressed or implied, whether of merchantability or fitness for any particular purpose or use or otherwise of the Services. In no event shall Enviroscan, Inc. be liable to Customer for any special, indirect, incidental or consequential damages arising out of, or as the result of, the performance of the Services, the use or loss of the use of a report prepared by Enviroscan, Inc., or for any charges or expenses of any nature incurred without Enviroscan's written consent, even though Enviroscan, Inc. has been negligent.

In no event shall Enviroscan, Inc., be responsible to the Customer for incidental, consequential, or special damages of any type or nature.

Except for claims for personal injury, the total liability of Enviroscan, Inc., to Customer arising under this order, whether arising by contract, tort, warranty (express or implied), strict liability, delay, inaccuracy in testing results, or otherwise shall not exceed the contract price of this order in the aggregate.

5. FORCE MAJEURE

Enviroscan, Inc. shall not be liable for any default or delay in performance if caused, directly or indirectly, by acts of God, war, force or arms, fire, the elements, riot, labor disputes, picketing or other labor controversies, sabotage, civil commotion, accidents, any governmental action, prohibition or regulation, delay in transportation facilities, shortage or breakdown of or inability to obtain or nonarrival of any labor, material or equipment used in the performance of the Services, failure of any party to perform any contract with Enviroscan, Inc. relative to the performance of the Services covered hereby, or from any cause whatsoever beyond Enviroscan's control, whether or not such cause be similar or dissimilar to those enumerated.

Enviroscan, Inc. shall be compensated for costs incurred when Services cannot be completed for any of the above causes.

6. MISCELLANEOUS

The Analytical Services are contracted for according to the laws of the State of Wisconsin. This document constitutes the full understanding of the parties (Enviroscan, Inc. and Customer), and no terms, conditions, understanding or agreement proporting to modify or vary the terms of this document shall be binding unless hereafter made in writing and signed by the party to be bound.

ENVIROSCAN

July 25, 1994

ENVIRONMENTAL AND ANALYTICAL SERVICES

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

Re: WIDOA9417

Please find enclosed the analytical results for the samples received July 8, 1994.

The Diesel Range Organics (DRO) analysis was completed using the WI. DNR Modified DRO Method. The PVOC analyses were completed using EPA Method 8020.

The chain of custody document is enclosed.

If you have any questions about the results, please call. Thank you for using Enviroscan Corp. for your analytical needs.

Sincerely,

Enviroscan Corp.

Dominic J. Bush

Senior Analytical Chemist



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: WIDOA9417
SAMPLED BY: Client
DATE REC'D: 07/08/94
REPORT DATE: 07/25/94
PREPARED BY: DJB 0 / P
REVIEWED BY: \[\lambda \rightarrow \]

Attn: Cy Ingraham

Modified Diesel Range Organics (DRO)
Parameter # 78919

	DRO	Qualifiers	Date Ext	Date Analyzed	Analytical No.
WW-2 *	X		07/08/94	07/20/94	15016
NW-2	X		07/08/94	07/20/94	15017
SW-2.5	5.27	D3 D5	07/08/94	07/20/94	15018
EW-2	X	4.1°	07/08/94	07/20/94	15019
SP-3	11,800.	D1	07/08/94	07/22/94	15020
A4-F4	X		07/08/94	07/20/94	15021
A4-S-3.5	X		07/08/94	07/20/94	15022
A4-W-3	X		07/08/94	07/20/94	15023
A4-N-3	X		07/08/94	07/20/94	15024
A5-F-4.5	X		07/08/94	07/20/94	15025

Detection Limit 5.0 Units $\mu g/g$

X = Analyzed but not detected.Results calculated on a dry weight basis.

Qualifiers: Only above indicated qualifiers apply.

- (D1) The chromatogram is distinct for diesel.
- (D2) The chromatogram is not distinct for diesel. It has characteristics of a product which has significant peaks within the DRO window.
- (D3) The chromatogram is not distinct for diesel. All peaks within the DRO window are quantitated.
- (D4) The chromatogram also contained significant peaks outside the DRO window.
- (D5) The chromatogram also contained significant peaks and a raised baseline outside the DRO window.

The replicate spike recovery of this batch of samples was found to be 115.% and 115.%.



Short Elliott Hendrickson, Inc. 421 Frenette Drive

Chippewa Falls , WI 54729

CUST NUMBER: WIDOA9417

SAMPLED BY: Client DATE REC'D: 07/08/94 REPORT DATE: 07/25/94 PREPARED BY: DJB

REVIEWED BY: W

Attn: Cy Ingraham

	Units	Detection Limit	SP-3 07/06/94	Qualifiers	Date Analyzed
EPA 8020					
Benzene	μg/g	0.0024	x		07/11/94
Ethylbenzene	μg/g	0.0046	0.010		07/11/94
Methyl tert Butyl Ether	μg/g	0.009	X		07/11/94
Toluene	μg/g	0.009	X		07/11/94
1,2,4-Trimethylbenzene	μg/g	0.0046	0.090		07/11/94
1,3,5-Trimethylbenzene	μg/g	0.0046	0.092		07/11/94
m- & p-Xylene	μg/g	0.0046	0.0061		07/11/94
o-Xylene & Styrene	μg/g	0.0046	0.038		07/11/94
Analytical No.:			15020		



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDOA9417 SAMPLED BY: Client

DATE REC'D: 07/08/94 **REPORT DATE: 07/25/94** PREPARED BY: DJB 0 373 REVIEWED BY:

	Units	Detection Limit	A4-F4 07/06/94	Qualifiers	Date Analyzed
EPA 8020					
Benzene	μg/g	0.0024	X		07/11/94
Ethylbenzene	μg/g	0.0047	X	A STATE OF THE STA	07/11/94
Methyl tert Butyl Ether	μg/g	0.0094	X		07/11/94
Toluene	μg/g	0.0094	0.012		07/11/94
1,2,4-Trimethylbenzene	μg/g	0.0047	X		07/11/94
1,3,5-Trimethylbenzene	μg/g	0.0047	X		07/11/94
m- & p-Xylene	μg/g	0.0047	X		07/11/94
o-Xylene	μg/g	0.0047	, x		07/11/94
Analytical No.:			15021		



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: WIDOA9417
SAMPLED BY: Client
DATE REC'D: 07/08/94
REPORT DATE: 07/25/94
PREPARED BY: DJB 27/5
REVIEWED BY:

Attn: Cy Ingraham

				Units	Detection Limit		A5-F-4.5 07/06/94		Qualifiers	Date Analyzed
								•		
E	PA 8020									
_	Benzene			μg/g	0.003		X			07/11/94
	Ethylbenzer	ne		μg/g	0.006		X			07/11/94
3	Methyl ter	Butyl	Ether	μg/g	0.012		X			07/11/94
	Toluene	•		μg/g	0.012	-	X			07/11/94
	1,2,4-Trime	ethylbe	nzene	μg/g	0.006		X			07/11/94
	1,3,5-Trime			μg/g	0.006		X			07/11/94
	n- & p-Xyle			μg/g	0.006		X *			07/11/94
	o-Xylene			μg/g	0.006		X			07/11/94
A	nalytical 1	No.:					15025			

REQUEST FOR SERVICES



303 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

^ _	CLI	ENT INFO	ORMA	MOITA	I										
Name: Cy Lugraham							Turnaround Time								
Company: 15EH								∑ Normal							
Address: 421 Frenette Dr. Chippewa Falls, WI 54729 Phone: (715) 723.8506								Rush							
Phone: (7/5) 72	Date Needed														
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05015023		1:45		2	A4-W-3	V	X	X							
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TERMS AND CONDITIONS

1. ORDERS

Customer may order Analytical Services by completing this form, submitting a written purchase order to Enviroscan, Inc. or by placing a telephone order which is subsequently confirmed in writing.

2. SAMPLES

When analyses only are ordered, Customer will be responsible for obtaining representative sample(s), preserving same in an appropriate manner, and forwarding them intact to Enviroscan, Inc. Customer has these responsibilities whether using own sample containers or containers provided by Enviroscan, Inc. Enviroscan, Inc. will exercise reasonable care in handling samples, but in no event shall Enviroscan's liability for loss or destruction of any sample exceed the amount paid for analysis of that particular sample.

3. CHARGES AND PAYMENT

Enviroscan, Inc. will perform Analytical Services in return for charges as outlined in our quotation, or as stated on Enviroscan's current price list. Terms of payment are Net/30 days. An additional charge of one and one half percent per month will be added to unpaid accounts.

4. WARRANTY-LIABILITY

Enviroscan, Inc. will perform Analytical Services and provide Customer with a written report of results. Notwithstanding anything herein to the contrary, liability in connection with any claim relating to Analytical Services shall be limited to, at Enviroscan's option, repeating the Services at Enviroscan's expense, or the refund of the charges paid for performance of the Services.

Except as expressly stated above, Enviroscan, Inc. makes no warranty, expressed or implied, whether of merchantability or fitness for any particular purpose or use or otherwise of the Services. In no event shall Enviroscan, Inc. be liable to Customer for any special, indirect, incidental or consequential damages arising out of, or as the result of, the performance of the Services, the use or loss of the use of a report prepared by Enviroscan, Inc., or for any charges or expenses of any nature incurred without Enviroscan's written consent, even though Enviroscan, Inc. has been negligent.

In no event shall Enviroscan, Inc., be responsible to the Customer for incidental, consequential, or special damages of any type or nature.

Except for claims for personal injury, the total liability of Enviroscan, Inc., to Customer arising under this order, whether arising by contract, tort, warranty (express or implied), strict liability, delay, inaccuracy in testing results, or otherwise shall not exceed the contract price of this order in the aggregate.

5. FORCE MAJEURE

Enviroscan, Inc. shall not be liable for any default or delay in performance if caused, directly or indirectly, by acts of God, war, force or arms, fire, the elements, riot, labor disputes, picketing or other labor controversies, sabotage, civil commotion, accidents, any governmental action, prohibition or regulation, delay in transportation facilities, shortage or breakdown of or inability to obtain or nonarrival of any labor, material or equipment used in the performance of the Services, failure of any party to perform any contract with Enviroscan, Inc. relative to the performance of the Services covered hereby, or from any cause whatsoever beyond Enviroscan's control, whether or not such cause be similar or dissimilar to those enumerated.

Enviroscan, Inc. shall be compensated for costs incurred when Services cannot be completed for any of the above causes.

6. MISCELLANEOUS

The Analytical Services are contracted for according to the laws of the State of Wisconsin. This document constitutes the full understanding of the parties (Enviroscan, Inc. and Customer), and no terms, conditions, understanding or agreement proporting to modify or vary the terms of this document shall be binding unless hereafter made in writing and signed by the party to be bound.

Appendix C

Thermal Treatment Application

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL ASPHALT PLANT OR OTHER TYPE OF THERMAL TREATMENT UNIT

Form 4400-149

This form is required by the Department of Natural Resources for leaking underground storage tank sites to ensure that petroleum contaminated soil is treated or disposed of in compliance with NR 500-540, NR 158, and NR 419, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426(1), 144.74 (1), and 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

DIRECTIONS: 1) Complete parts I and II. 2) Submit the application to the DNR project manager for approval. 3) Have the treatment facility complete part III of the approved form after the soil has been treated. 4) Return the ORIGINAL form to the DNR project manager. 5) Keep a copy for your files.

	COMPLETE PART L
Site/Facility Name	Site LD. # (for DNR use only)
Fort McCoy	
Site Address	Contact Name
Fort McCoy- Various sites for training	Kurt Brownell
City, State, Zip Code	1/4, 1/4, Section, Township, and Range
Sparta, WI 54656-5000	T17, 18, 19N; R2, 3W
The information on this form is accurate to the best of my knowle Signature of Soil Generator	dge. Telephone Number (include area code)
	(608) 388-2160/2363 (Kurt Brownell)
Consulting Firm Contact Llan L. Balliett	Telephone Number
Estimated Volume Contaminated Soil Ache al 138.07	✓ ¾✓Soil Type (USCS)
Tons cubic yards (circle one) Type of Petroleum Contamination (Circle):	sand (SP, SW) silty/clayey sands (SM, SC) silt (ML, MH, OL) clay (Cl, CH, OH)
Gasoline Diesel Fuel/#2 Fuel Oil	gravel (GC, GM, GP, GW)peat (PT)
Other	Distance to Nearest Residence/Business
Contaminant concentration:	
soil shown to be contaminated during the site investigation/excavation RESULTS OF BOTH FIELD SCREENING AND LAB ANALY	yds ³ when the field instrument does not register contamination on on or stockpiling. PLEASE ATTACH A TABLE LISTING
Total Benzene in soil to be remediated (attach calculations)
Total Petroleum Hydrocarbons(TPH) in soil to be remedia	ted (attach calculations) 105 lbs
Total TPH as DRO	
110 Lanc Col v 178 160	TRO sociles 1 = 111 972

ALCEN WED

MC7 : (+18*-

ATTACH EMISSIONS CALCULATIONS

weight basis, and be amount of contaminated soil in yds ³ . No substituting TPH concentration (ppm or mg/kg) for "a". It may	where a = benzene concentration of soil sample in ppm or mg/kg of OTE: This calculation can also be used to estimate TPH emissions to y also be used to calculate VOCs.
Part II: Pro	posed Treatment Facility
Name of Plant Mathy Construction Co.	Plant number and Model6
Contact Gale Jensen	DNR Facility I.D. No. 632027770
Address Conoco Road (or location of portable plant)	Distance to Nearest Residence/Business 1300 feet +
LEAVE BLANK - DEPARTMEN	T OF NATURAL RESOURCES USE ONLY
Application Concurrence: Air Management Project Manager Comments:	Date
AFTER PROCE	LT/THERMAL UNIT PROCESSING THE CONTAMINATED SOIL ESSING IS COMPLETED Part III
WDNR Air Pollution Control Permit Number 63202777	-NOI Actual Volume of Soil Treated (tons) cubic yards) 138.07
	Date of treatment $8/3/94$
Transporter Name Allan Gerke + Sons	Transporter License Number 10837
Circle One: Roasted and Incorporated R	oasted Only
Total Benzene emissions in pounds for this batch (apply 50% of	destruction factor if no after burner is used)
Eenzone emissions to date for this plant (including this batch)	for this calendar year
Signature of Treatment plant representative	Telephone Number at Plant. 608-783-2404
POST BURN SAMPLE RESULTS: COMPLETE ONI	LY FOR SOILS NOT INCORPORATED!
(One representative sample for each 100 cubic yards-not compo	osites)
Sample Number	_
ТРН	_
DNR APPROVAL IS REQUIRED BEFORE USING AS CO	DMMON FILL
Date of backfilling or use as common fill	Location of fill site 1/4 1/4 S T R

TOXIC AND HAZARDOUS SPILL REPORT State of Wisconsin Department of Natural Resources Form 4400-91 State Div. Emergency Gov't. (608) 266-3232 Spill ID Number U.S. Nat'l. Response Center (800) 424-8802 Chemtrec/Pesticides/Chlorine (800) 424-9300 Y Y M M D D 0-99 Telephone Number Date of Incident Day of Week Time of Incident ☐ A.M. Reported By (Name) 5-17-94 □ P.M. (608) 242 3356 Tue A.M. Reported thru Div. Emergen. Date Reported Day of Week Time Reported Agency or Firm Reporting 5-17-94 9:00 ☐ Yes □ P.M. □ No Tue Substance Involved Quantity Poprox Units Person or Firm Responsible tory Affairs 100 80 Diese Contact Name Telephone Number Substance Involved Quantity Units 16081242 3356 Physical Characteristics Address - Street or Route 2400 ☐ Solid X Liquid Color. City, State, Zip Code ☐ Semisolid Gas Odor Madison Cause of Incident Action Taken By Spiller No Action No Exact Location Description (intersection, mileage, etc.) Taken Notification Investigate Ft. McCoy MATES bldg., nty Location 1444, 4, Section, Town, Range ☐ Containment; Type County Location Cleanup; Method ☐ Amount Recovered NESW. 19, T18 N. RZW Monroe Monitor DNR Dist DNR Area Groundwaters Affected SEH Contractor Hired; Name ____ No. WD BRF Yes Surface Waters Affected Name of Surface Water Other Action K No Yes Potential Spill Location Date District Day of Week Time District Notified ☐ Industrial Facility/Paper Mill/Chem. Co. Notified A.M. Gas/Service Station/Garage, Auto Dealer, Repair Shop 5-17-94 TILE ☐ P.M. ☐ Ag Coop/Facility/Cheese Factory/Creamery District Person Notified Telephone Number Other Small Business (bank, grocery, insurance co., etc.) 171512841428 TIM Baker Public Property (city, county, state, church, school, etc.) Day of Week Date Investigated Time Investigated A.M. Utility Co., Power Generating/Transfer Facility ☐ P.M. ☐ Private Property (home/farm) Person Investigating Telephone Number ☐ Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler ☐ Transportation Accident, Fuel Supply Tank Spill Action Taken By DNR ☐ Transportation Accident, Load Spill No Action Supervise/Conduct Construction, Excavation, Wrecking, Quarry, Mine Investigation Taken & Other Military installation Spiller Required To Hire Contractor Spilled Substance Destination Take Action; Type _ Air Contractor Hired X Soil By DNR; Name Groundwater Amount Recovered Surface Water 29.29 Enforcement Storm Sewer Other Agencies on Scene ☐ Sanitary Sewer ☐ Contained/Recovered Local Other Person Filing This Report (print name) State PAT Glasspoole Date Signed Federal Additional Comments: hired to investigate of clean up

we designate between their ; soil waste. not froducto John Jawbson, another Spill 9:00 Told DEG - SEH Will conduct clean ups: This one of the one he reported & UKS 90. Builden deed Fol Spirit Max 15 100 gol cot (great both 2016 Clause) spirite John Jacobson MATES 25-10 get press (4/19/94 Leak in our tank Lucy ant Charpe deligie will some legat (606) 242 :3:6 WIDMA Wis. Div. Military 2400 WHIGHT St. Madison 53704

WD Case Summary and Closeout Form

Closeout Option: (Circle one) Commit	tee Fast Track	k S	Site I.D. No	•
Site Name MATES Spill Areas #4 and #5	DNR Project	Manager_]	Timothy Bal	ker
242 E. G Street Location Fort McCoy, WI 54656	Priority	High	Medium	Low
Type of Discharge Lust Sp	oill	Other		Unknown
Contamination Present In Soil G	roundwater	Other		Unknown
Contaminant Type <u>diesel fuel</u>	Discharge Vo	olume <u>90 ga</u>	allons/35 ga	allons
Potential Receptors soil				
Date of Site Discovery May 1994	Consultant S	Short Elliott	Hendrickso	on Inc.
Soil Type (s) fine to medium grained sand	Depth to Bed	rock/Rock	Type <u>NA</u>	
Depth to Groundwater/Direction of Flow_	NA			
Case Summary				
In May 1994, an estimated 90 gallons of diese estimated 35 gallons of diesel fuel was released fr was onsite to oversee the remedial excavations. The excavation at Area #4 was completed on July its completion in July. On August 9, 1994, excavatinal excavation at Area #5. Sampled soils from significant concentrations of DRO or PVOCs.	om a different tro and to collect so 6, 1994, but rair tion activities res	oop carrier at il samples for nwater in the numed and sa	Area #5. On r field and la Area #5 exca mples were	July 6, 1994, SEH boratory analysis. avation prevented collected from the
Committee Recommendation:				
1. Closeout SignaturesApproval			Date_	
or				
2. Additional work required				

Degree of Contamination

SOIL: Extent defined? Yes	s No I	NA		Area #4 - 4
Lab Analyses Field	l Analysis N	o Data Number	of sampling points	
	Post-remedia	tion Concentration		
Area #4 Contaminant	PPM	Area #5 Conta	minant	PPM
Toluene	0.012	No detectable concentrations of PVOCs in sample		
Remedial action taken:				
Separate remedial excavativas temporarily stockpile Company in La Crosse, V	d onsite and was sub	-		
GROUNDWATER: Extent defined?	es No NA	Lab Analyses	Field Analysis	No Data
Groundwater monitoring	g: Permanent Wel	ls Yes No	Temporary Wells	s Yes No
Number of sampling poin	nts?			
Contaminant	Post-remediatio	on Concentration	Applicable ES — ———	e Standard PAL
Remedial action taken: Groundwater was not en	countered during ex	cavation activities.		
I certify that, to the best of maccurate. This recommendation is submitted by	y knowledge, the inform on for case closure is be	nation presented on a	e data as of Novembe	

Request Closed,

MATES Spill Areas #4 and #5

Remedial Action Report

Fort McCoy, Wisconsin

SEH No. WIDOA9417.00

November 1994

SHORT ELLIOTT HENDRICKSON INC.





421 FRENETTE DRIVE, CHIPPEWA FALLS, WI 54729 715 723-8506 800 472-5881 ARCHITECTURE . ENGINEERING . ENVIRONMENTAL . TRANSPORTATION

November 2, 1994

RE: MATES Spill Areas #4 and #5 Fort McCoy, Wisconsin Remedial Action Report SEH No. WIDOA9417.00

Mr. Timothy Baker, Hydrogeologist Wisconsin Department of Natural Resources 910 Highway 54 East Black River Falls, WI 54615

Dear Mr. Baker:

On behalf of the Wisconsin State Department of Military Affairs, Short Elliott Hendrickson Inc. (SEH) is submitting the enclosed "Remedial Action Report - MATES Spill Areas #4 and #5", dated November 1994. This report is being submitted to the Wisconsin Department of Natural Resources (WDNR) to describe the remedial excavation and sampling which was at the Mobilization and Training Equipment Site (MATES) located at 242 East G Street in Fort McCoy, Wisconsin on July 6 and August 9, 1994.

SEH respectfully requests that WDNR prepare a written response to the conclusions and recommendations presented in this report. A case summary and closeout form is included for your use. If you have any questions regarding the report content, please feel free to contact us.

MINNEAPOLIS, MN

Sincerely,

Cyrus Ingraham, P.E.

Project Manager

ls

Enclosure

c: Jon Jacobson Dan Getchell

Distribution List

No. of Copies	Sent to
1	Timothy Baker, Hydrogeologist
	Wisconsin Department of Natural Resources
	910 Highway 54 East
	Black River Falls, WI 54615
1	Jon Jacobson, Environmental Specialist
	The Adjustment General
	Wisconsin State Department of Military Affairs
	Madison, WI 53714-0581 PO 14587 Dan Getchell ATTN:
	-0587
1	Dan Getchell ATTn'
	MATES WIARNG
	242 East G Street
	Fort McCoy, WI 54656
1	Cyrus Ingraham, P.E., Project Manager
	Short Elliott Hendrickson Inc.
	421 Frenette Drive
	Chippewa Falls, WI 54729

Remedial Action Report

MATES Spill Areas #4 and #5 Fort McCoy, Wisconsin

Prepared for: Wisconsin State Department of Military Affairs Madison, Wisconsin

> Prepared by: Short Elliott Hendrickson Inc. 421 Frenette Drive Chippewa Falls, WI 54729 (715) 720-6200

Cyrus Ingraham, P. Project Manager

Kevin Accola

Environmental Scientist

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Remedial Action Report

MATES Spill Areas #4 and #5

Fort McCoy, Wisconsin

1.0 Introduction

Short Elliott Hendrickson Inc. (SEH) initiated two separate remedial excavations at the MATES Spill Areas #4 and #5 on July 6 and August 9, 1994. Soil contamination occurred as a result of a petroleum releases from equipment stored onsite. The extent of petroleum contamination was determined through the performance of separate remedial excavations.

1.1 Purpose

The purpose of this remedial action was to remove contaminated soil from the site to protect the environment and restore the site to the extent practicable.

1.2 Scope of Work

The Scope of Work for this Remedial Action included the following:

- Documentation of excavation of approximately 36 cubic yards of contaminated soil with soil classification during excavation (color, grain size, staining and odor) and headspace analysis;
- Collection of soil samples from the walls and floor of the final excavations to document the condition of remaining soil at the site; and,
- Preparation of this report describing results of the remedial action and providing additional recommendations for the site.

DNR/LE/GEF II ->> 5KIP State of Wisconsin 6	ID:6082663696 AKER- BRF_	JUN 03'94 11:08 No.014 P.01 TOXIC AND HAZARDOUS SPILL REPORT
Department of Natural Resource	State Div. Emergency Gov't. U.S. Nat'l. Response Center	Form 4400-91 Rev. 6-86 (608) 266-3232 (800) 424-8802 Spill ID Number
tak	Chemtrec/Pesticides/Chlorine	(800) 424-9300 Y Y M M D D 0-99
Date of Incidenty Day of Week	Time of Incident A.M. ONR La Crosse Area.	Reported By (Name) Telephone Number (608) 342-3355
Date Reported 94 Day of Week	Time Reported [] A.M.	Agency or Firm Reporting Reported thru Div. Emergen. Gov't. Yes No
Substance involved	9000 Units	Person or Firm Responsible WI Hrmy National Guard
Substance Involved	Quantity Mits	Formact Name Schusler (28) 242-3355
Physical Characteristics		Address - Street or Route
☐ Solid ☐ Liquid	Color	City, State, Zip Code
☐ Semisolid [] Gas	Odor	Madison INI 53714-0587
Cause of Incident	U. C. J. look	Action Taken By Spiller
2 TYLES WI	th fuel leaking	No Action No
Exact Location Description (intersect	n to Fac	Taken Notification Investigate
County Location 1/4, 1/4, Section	on, Town, Range	Cleanup; Method
Monroe		Amount Recovered
	, TN, R	Monitor
DNR Dist. DNR Arou Groundwaters	No Deposited	Contractor Hired; Name
Surface Waters Affected	Name of Surface Water	Other Action
Yes No Delential		Spill Location
Date District Day of Wook	Time District Notified	☐ Industrial Facility/Paper Mill/Chem. Co.
Notified *	∐ А.М. П Р м	Gas/Service Station/Garage, Auto Dealer Repair Shop
District Person Notified	Telephone Number	Ag Coop/Facility/Cheese Factory/Creamery
Month of Leight Monthed	()	Other Small Business (bank, grocery, insurance co., etc.)
Date Investigated Day of Week	Time Investigated	Public Property (city, county, state, church, school, ctc.)
	☐ A.M. ☐ P.M.	Utility Co., Power Generating/Transfer Facility
Person Investigating	Telephone Number	Private Property (home/farm) Pipeline, Terminal, Tunk Farm, Oil Jobber/Wholesaler
4 (B) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	()	Transportation Accident, Fuel Supply Tank Spill
Action Taken By DNR		Transportation Accident, Load Spill
No Action Taken Investiga	tion Supervise/Conduct Cleanup	Construction, Excavation, Wrecking, Quarry, Mine Other
Spiller Required To Take Action; Type		Spilled Substance Destination
Contractor Hired		Air Dan
By DNR; Name		Air Soil Parking Area
Amount Recovered		C Groundwater
29.29 Enforcement		Surface Water
Other Agencies on Scene		Storm Sewer Sanitary Sewer
Incal Ft. McCay	Fire Dept	Contained/Recovered
State Consult	SEH. Eau Cla	Other
Federal		Signature Dog Date Signed
Additional Comments:		1 31 34 11

2.0 Background

The remedial excavations were performed at the Mobilization and Training Equipment Site (MATES) which is located at 242 East G Street in Fort McCoy, Wisconsin as shown in Figure 1, "Site Location". The site is located in the SW 1/4 of the SE 1/4 of Section 13, T18N, R3W. MATES is operated by the State of Wisconsin Department of Military Affairs. The property is leased to the State from the federal government.

On May 14, 1994, two separate petroleum releases were identified northeast of the MATES facility in a fenced equipment storage area labeled 2D BN 127th INF. An estimated 90 gallons of diesel fuel was released from a troop carrier at Area #4 and an estimated 35 gallons of diesel fuel was released from a different troop carrier at Area #5 shown in Figure 2, "Site Plan".

On July 6, 1994, SEH was onsite to oversee the remedial excavations and to collect soil samples for field and laboratory analysis. Excavation and soil sampling at the Spill Area #4 was completed and limits of contamination were defined on July 6, 1994. SEH was unable to complete the remedial excavation at spill Area #5 on July 6, 1994 because of time constraints. In the days that followed, heavy rainfall and water in the excavation prevented completion of the remedial excavation. On August 9, 1994, excavation activities were resumed and limits of contamination for spill Area #5 were defined. SEH used field headspace results and field observations to determine excavation limits and collected soil samples to confirm field results.

3.0 Remedial Excavation

Approximately 31 cubic yards of contaminated soil was initially excavated from both areas and stockpiled onsite on July 6, 1994. An additional 5 cubic yards was excavated from Area #5 and stockpiled onsite on August 9, 1994. Excavation was performed by MATES personnel with a pay loader and a backhoe. The Area #4 excavation reached a depth of approximately 4 feet and groundwater was not encountered. The Area #5 excavation extended to approximately 5 feet and rainwater filled the excavation in days following July 6, 1994. A grab sample of water from the Area #5 excavation on July 8, 1994 indicated the presence of 171 μ g/l of Diesel Range Organics (DRO) and no detectable concentrations of Polynuclear Hydrocarbons (PAHs). Approximate dimensions of the final excavations are shown on Figure 3, "Sample Locations". Onsite soils consist of fine-medium grained light brown sand (SP). The excavations were left open until confirmatory analytical sample results were obtained and were subsequently backfilled with clean granular materials.

REPRODUCED FROM USGS ALDERWOOD LAKE QUADRANGLE WISCONSIN - MONROE CO. 7.5 MINUTE SERIES



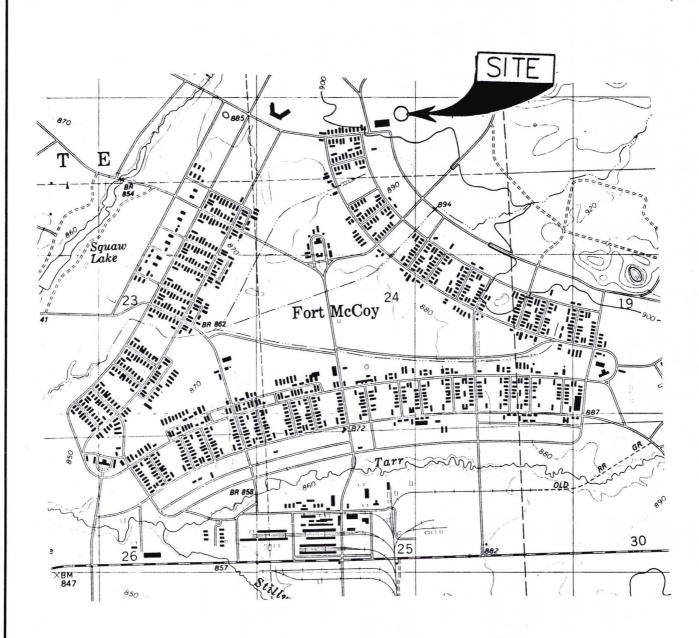
SCALE: 1"= 2,000'

FILE NO.

WIDOA9417

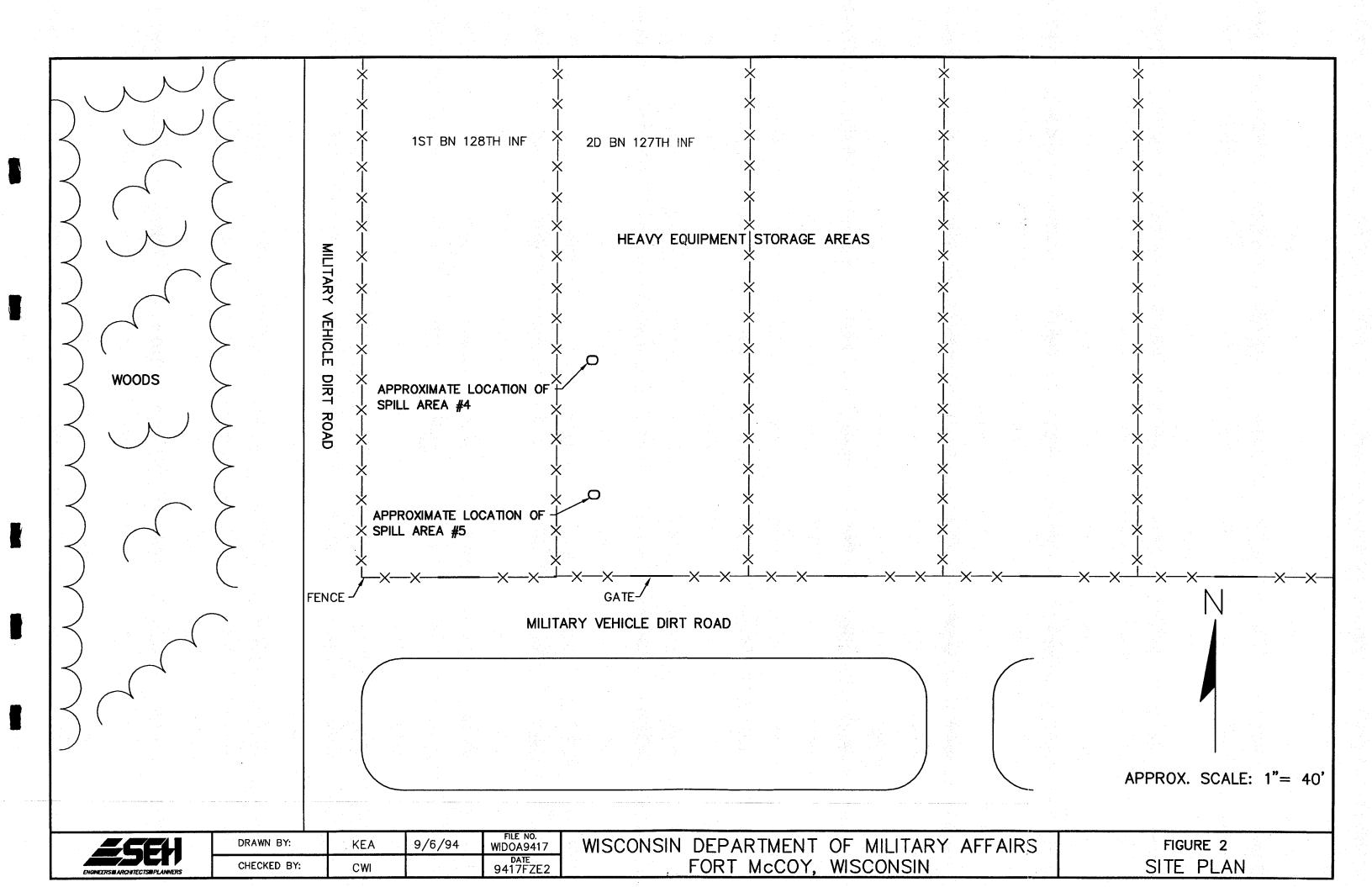
DRG. NO.

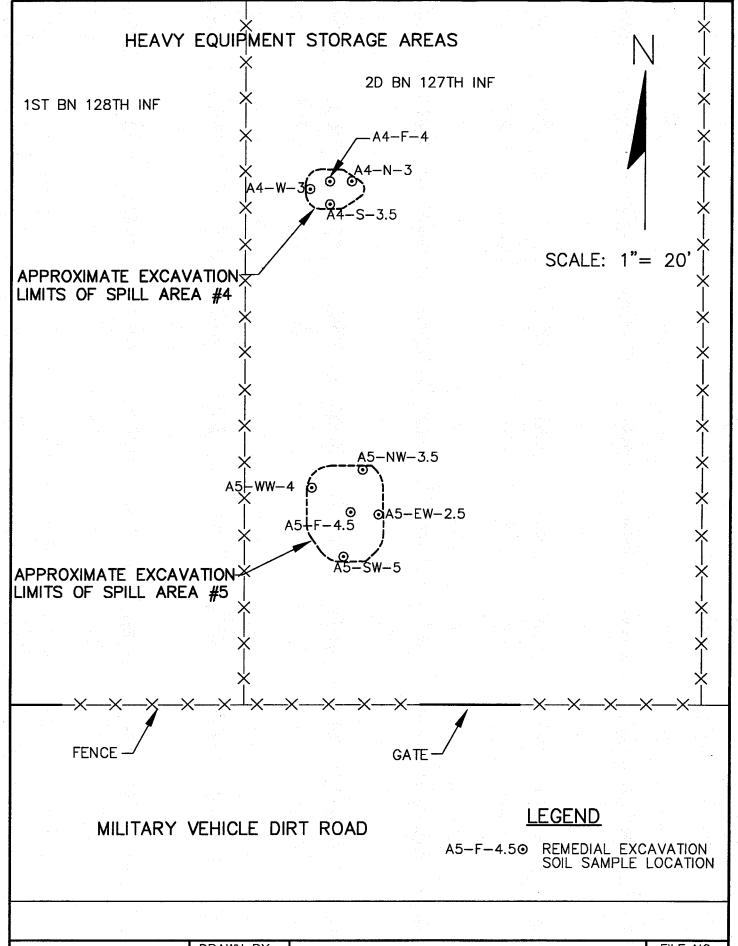
9417FZA1





DRAWN BY: KEA 9/6/94 CHECKED BY: MATES SPILL AREAS #4 & #5
FIGURE 1
SITE LOCATION







DRAWN BY:
KEA 9/6/94
CHECKED BY:

MATES SPILL AREAS #4 & #5
FIGURE 3
SAMPLE LOCATIONS

FILE NO. WIDOA9417 DRG. NO. 9417FZH1

4.0 Post Excavation Sampling and Analysis

4.1 Method

Soil samples were collected from the walls and floor of the final excavations at approximate locations shown on Figure 3. A flame ionization detector (FID) was used to screen soil samples. Standard procedures for meter calibration, field screening, and soil sampling are included in Appendix A, "SEH Standard Operating Procedures".

4.2 Laboratory Analysis

Soil analysis for this project was performed by Enviroscan Corp. of Rothschild, Wisconsin according to applicable WDNR standards at the time of sample collection. The Wisconsin Lab Certification number for Enviroscan is 737053130.

4.3 Results - Spill Area #4

Analytical results for Spill Area #4 are summarized in Table 1, "Results – Post Excavation Sampling – Spill Area #4" with laboratory reports included in Appendix B, "Analytical Results". No detectable concentrations of DRO were present in soil samples collected from the floor and walls of the final excavation. Sample A4-F4, collected from the floor of the final excavation, contained 0.012 μ g/g of toluene. The soil sampled from the stockpile (SP-3) contained 11,800 μ g/g of DRO and low levels of Petroleum Volatile Organic Compounds (PVOCs).

Table 1
Results - Post Excavation Sampling – Spill Area #4

Sample I.D.	A4-N-3	A4-S-3.5	A4-W-3	A4-F4	SP-3
Depth (ft)	3	3.5	3	4	
DRO (μg/g)	BDL	BDL	BDL	BDL	11,800
PVOCs (μg/g)					
Benzene	-			BDL	BDL
Ethylbenzene	_	-		BDL	0.010
МТВЕ	-	-		BDL	BDL
1,2,4-Trimethylbenzene	-			BDL	0.090
1,3,5-Trimethylbenzene	-	-		BDL	0.092
m- & p-Xylene				BDL	0.0061
o-Xylene & Styrene	_			BDL	0.038
Toluene		-		0.012	BDL
FID (Instrument Units)	0.2	1.1	1.6	0.4	725

BDL Concentrations were below detectable levels.Not analyzed for

4.4 Results - Spill Area #5

Analytical results for Spill Area #5 are summarized in Table 2, "Results – Post Excavation Sampling – Spill Area #5" with laboratory reports included in Appendix B. Soil sample A5-F-4.5 was collected on July 6, 1994 from the excavation floor. All other samples were collected from the walls of the excavation on August 9, 1994. No detectable concentrations of DRO were present in soil samples collected from the floor and walls of the final excavation. Soil sample A5-F-4.5, collected from the floor of the final excavation, contained no detectable concentrations of PVOCs. Soil excavated from Spill Areas #4 and #5 were stockpiled together and sample SP-3 is representative of both areas.

Table 2
Results - Post Excavation Sampling - Spill Area #5

Sample I.D.	A5-F-4.5	A5-NW-3.5	A5-WW-4	A5-SW-5	A5-EW-2.5	
Depth (ft)	4.5	3.5	4	5	2.5	
DRO (μg/g)	BDL	BDL	BDL	BDL	BDL	
PVOCs (μg/g)					·	
Benzene	BDL					
Ethylbenzene	BDL					
МТВЕ	BDL					
1,2,4-Trimethylbenzene	BDL					
1,3,5-Trimethylbenzene	BDL			••		
m- & p-Xylene	BDL					
o-Xylene & Styrene	BDL					
Toluene	BDL	-				
Headspace (Units)	0.4	0	9.2	0.2	0	

BDL Concentrations were below detectable levels.

Not analyzed for

5.0 Conclusions

Based on the information obtained during remedial excavation activities, SEH has reached the following conclusions:

Sampled soils from the final excavations in Areas #4 and #5 at depths of 2.5 to 5 feet contained no detectable concentrations of DRO and no significant concentrations of PVOCs.

- WDNR Form 4400-149, "Application to Treat or Dispose of Petroleum Contaminated Soil" is included in Appendix C, "Thermal Treatment Application". The estimated 36 cubic yards of contaminated soil was transported by Mathy Construction Company to their thermal treatment operation in La Crosse, Wisconsin.
- Soil contaminated as a result of the petroleum releases at the Spill Areas #4 and #5 have been excavated and were transported offsite for thermal treatment.

6.0 Recommendations

Based on analytical results and the information obtained during the remedial excavation, SEH recommends that no additional remediation should be required at the Spill Areas #4 and #5. Soils contaminated by the petroleum releases at the Spill Areas #4 and #5 have been remediated; therefore, we request that the project be submitted for closeout.

7.0 Limitations of Study and Report

The analysis and recommendations provided in this report are based upon the data obtained from field investigation and laboratory analyses. The conclusions and recommendations contained herein were based upon the applicable standards of our profession at the time and place this report was prepared. Other than this, no warranty is implied or intended.

Appendix A

Standard Operating Procedures

Protocol for Excavation Sampling and Investigation of Subsurface Soils – Backhoe

A backhoe is used at the site for excavating surface and subsurface soils from specific locations. This provides for visual observation of subsurface conditions, and allows for collection of soil samples at depth. Excavated soils are loaded directly onto trucks for transport to a temporary storage area before transport to a treatment facility. When possible, "clean" soils are kept separate from contaminated soils and all "clean" soils are used as backfill for the final excavation. Clean granular soils are used as backfill for the excavation after sampling is performed.

Soil samples are generally collected from varying depths to obtain representative samples. A grab sample of soil is extracted from the excavation using the backhoe bucket, and the bucket is then placed on the ground surface next to the excavation. Soil samples are obtained from the central portion of each bucket, and not from areas near the bucket surface. A sample is collected from the bucket using decontaminated stainless-steel sampling equipment. Sampling equipment used to collect the soil sample from the bucket is decontaminated between samples using a soap and water wash followed by a distilled water rinse. Visual observations are made of the native soils during excavation activities, and soil samples are classified in the field by SEH's Site Representative. Sample lithology is recorded using the Unified Soil Classification System.

During excavation and sampling activities, soils are screened for the presence of volatile organic compounds (VOCs) using a flame ionization detector (FID). VOCs are common components of a variety of environmental contaminants, including industrial solvents, petroleum products and wide range of other industrial compounds. The FID is also used to monitor ambient air concentrations at the excavation and within the work zone during the soil excavation, in accordance with SEH's Site Safety Plan. Personal protective equipment is utilized by sampling personnel during sampling, as specified in the Site Safety Plan.

Soil samples are collected in laboratory-clean glass sample containers. These are labelled with the sample designation, location, date, time and sampler. Sample collection and preservation procedures will follow the latest WDNR LUST Guidance protocol. Collected samples are preserved on ice and shipped to the contracted analytical laboratory. SEH standard chain-of-custody procedures are followed regarding the shipment and receipt of samples.

Soil Vapor Monitoring - FID

Soil vapor (headspace) measurements are made on soil samples collected by soil boring, test pit and pipe trenching activities. The field instrument used is a Foxboro Organic Vapor Analyzer (OVA) Model 128 portable flame ionization detector (FID) that has been laboratory calibrated. The FID is calibrated in the field using 100 ppm methane prior to conducting any sample measurements. This instrument provides the following analytical screening capability:

Accuracy: Based on the use of a calibration gas with operating

temperatures between 10 and 40 degrees C

within +/- 20% for 0 to 10 ppm within +/- 20% for 0 to 100 ppm within +/- 20% for 0 to 1000 ppm

Response Time: Approximately 2 seconds for 90% of final reading

Detection Limit: 0.2 ppm methane

Response to Petroleum: Recorded as meter deflection based on the above

referenced calibration.

The following procedure is used in determining headspace gas concentrations in each soil sample:

- 1. Half-fill one clean sealable plastic bag with the sample to be analyzed and immediately seal. Plastic bags are 10 oz. volume capacity.
- 2. Headspace is allowed to develop for 10 minutes. The bag is vigorously shaken for 15 seconds both at the beginning and end of the headspace development period. Where ambient temperatures are below 32° F (0° C), headspace development is conducted within a heated vehicle or building.
- 3. After headspace development, the plastic bag is punctured with the instrument sampling probe to a point about one-half of the headspace depth. Care is exercised to avoid uptake of water droplets or soil particles.
- 4. Following probe insertion through the plastic bag, the highest meter response is recorded as the headspace concentration.

Samples are also examined visually by an environmental professional for staining or other signs of contamination.

Appendix B

Analytical Results

ENVIROSCAN

July 25, 1994

ENVIRONMENTAL AND ANALYTICAL SERVICES

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

Re: WIDOA9417

Please find enclosed the analytical results for the samples received July 8, 1994.

The Diesel Range Organics (DRO) analysis was completed using the WI. DNR Modified DRO Method. The PVOC analyses were completed using EPA Method 8020.

The chain of custody document is enclosed.

If you have any questions about the results, please call. Thank you for using Enviroscan Corp. for your analytical needs.

Sincerely,

Enviroscan Corp.

Dominic J. Bush

Senior Analytical Chemist

ominie Buch

ANALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

SAMPLED BY: Client
DATE REC'D: 07/08/94
REPORT DATE: 07/25/94
PREPARED BY: DJB 0 7/2
REVIEWED BY: \\

CUST NUMBER: WIDOA9417

Attn: Cy Ingraham

Modified Diesel Range Organics (DRO)
Parameter # 78919

	DRO	Qualifiers	Date Ext	Date Analyzed	Analytical No.
WW-2	x		07/08/94	07/20/94	15016
NW-2	X		07/08/94	07/20/94	15017
SW-2.5	5.27	D3 D5	07/08/94	07/20/94	15018
EW-2	X	7	07/08/94	07/20/94	15019
SP-3	11,800.	D1	07/08/94	07/22/94	15020
A4-F4	X		07/08/94	07/20/94	15021
A4-S-3.5	X		07/08/94	07/20/94	15022
A4-W-3	X		07/08/94	07/20/94	15023
A4-N-3	X		07/08/94	07/20/94	15024
A5-F-4.5	X		07/08/94	07/20/94	15025

Detection Limit 5.0 Units $\mu g/g$

X = Analyzed but not detected.Results calculated on a dry weight basis.

Qualifiers: Only

Only above indicated qualifiers apply.

- (D1) The chromatogram is distinct for diesel.
- (D2) The chromatogram is not distinct for diesel. It has characteristics of a product which has significant peaks within the DRO window.
- (D3) The chromatogram is not distinct for diesel. All peaks within the DRO window are quantitated.
- (D4) The chromatogram also contained significant peaks outside the DRO window.
- (D5) The chromatogram also contained significant peaks and a raised baseline outside the DRO window.

The replicate spike recovery of this batch of samples was found to be 115.% and 115.%.

NALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDOA9417 SAMPLED BY: Client DATE REC'D: 07/08/94 REPORT DATE: 07/25/94 PREPARED BY: DJB

REVIEWED BY:

	Units	Detection Limit	SP-3 07/06/94	Qualifiers	Date Analyzed
EPA 8020					
Benzene	μg/g	0.0024	X		07/11/94
Ethylbenzene	μg/g	0.0046	0.010		07/11/94
Methyl tert Butyl Ether	μg/g	0.009	X		07/11/94
Toluene	μg/g	0.009	X		07/11/94
1,2,4-Trimethylbenzene	μg/g	0.0046	0.090		07/11/94
1,3,5-Trimethylbenzene	μg/g	0.0046	0.092		07/11/94
m- & p-Xylene	μg/g	0.0046	0.0061		07/11/94
o-Xylene & Styrene	μg/g	0.0046	0.038		07/11/94
)					
Analytical No.:			15020		

X = Analyzed but not detected.
Results calculated on a dry weight basis.

ANALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDOA9417
SAMPLED BY: Client
DATE REC'D: 07/08/94
REPORT DATE: 07/25/94
PREPARED BY: DJB 0772
REVIEWED BY: UN

	Units	Detection Limit	A4-F4 07/06/94	Qualifiers	Date Analyzed
EPA 8020					
Benzene	μg/g	0.0024	X		07/11/94
Ethylbenzene	μg/g	0.0047	X		07/11/94
Methyl tert Butyl Ether	μg/g	0.0094	X		07/11/94
Toluene	μg/g	0.0094	0.012		07/11/94
1,2,4-Trimethylbenzene	μg/g	0.0047	X		07/11/94
1,3,5-Trimethylbenzene	μg/g	0.0047	x		07/11/94
m- & p-Xylene	μg/g	0.0047	X		07/11/94
o-Xylene	μg/g	0.0047	x		07/11/94
Analytical No.:			15021		

X = Analyzed but not detected.
Results calculated on a dry weight basis.

ANALYTICAL REPOR



Short Elliott Hendrickson, Inc. 421 Frenette Drive

Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDOA9417 SAMPLED BY: Client DATE REC'D: 07/08/94 **REPORT DATE: 07/25/94**

PREPARED BY: DJB 0775 REVIEWED BY: 119

	Units	Detection Limit	A5-F-4.5 07/06/94	Qualifiers	Date Analyzed
EPA 8020					
Benzene	μg/g	0.003	X		07/11/94
Ethylbenzene	μg/g	0.006	X		07/11/94
Methyl tert Butyl Ether	μg/g	0.012	X		07/11/94
Toluene	μg/g	0.012	X		07/11/94
1,2,4-Trimethylbenzene	μg/g	0.006	X		07/11/94
1,3,5-Trimethylbenzene	μg/g	0.006	X		07/11/94
m- & p-Xylene	μg/g	0.006	X		07/11/94
o-Xylene	μg/g	0.006	x		07/11/94
Analytical No.:			15025		

X = Analyzed but not detected. Results calculated on a dry weight basis.



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TERMS AND CONDITIONS

1. ORDERS

Customer may order Analytical Services by completing this form, submitting a written purchase order to Enviroscan, Inc. or by placing a telephone order which is subsequently confirmed in writing.

2. SAMPLES

When analyses only are ordered, Customer will be responsible for obtaining representative sample(s), preserving same in an appropriate manner, and forwarding them intact to Enviroscan, Inc. Customer has these responsibilities whether using own sample containers or containers provided by Enviroscan, Inc. Enviroscan, Inc. will exercise reasonable care in handling samples, but in no event shall Enviroscan's liability for loss or destruction of any sample exceed the amount paid for analysis of that particular sample.

3. CHARGES AND PAYMENT

Enviroscan, Inc. will perform Analytical Services in return for charges as outlined in our quotation, or as stated on Enviroscan's current price list. Terms of payment are Net/30 days. An additional charge of one and one half percent per month will be added to unpaid accounts.

4. WARRANTY-LIABILITY

Enviroscan, Inc. will perform Analytical Services and provide Customer with a written report of results. Notwithstanding anything herein to the contrary, liability in connection with any claim relating to Analytical Services shall be limited to, at Enviroscan's option, repeating the Services at Enviroscan's expense, or the refund of the charges paid for performance of the Services.

Except as expressly stated above, Enviroscan, Inc. makes no warranty, expressed or implied, whether of merchantability or fitness for any particular purpose or use or otherwise of the Services. In no event shall Enviroscan, Inc. be liable to Customer for any special, indirect, incidental or consequential damages arising out of, or as the result of, the performance of the Services, the use or loss of the use of a report prepared by Enviroscan, Inc., or for any charges or expenses of any nature incurred without Enviroscan's written consent, even though Enviroscan, Inc. has been negligent.

In no event shall Enviroscan, Inc., be responsible to the Customer for incidental, consequential, or special damages of any type or nature.

Except for claims for personal injury, the total liability of Enviroscan, Inc., to Customer arising under this order, whether arising by contract, tort, warranty (express or implied), strict liability, delay, inaccuracy in testing results, or otherwise shall not exceed the contract price of this order in the aggregate.

5. FORCE MAJEURE

Enviroscan, Inc. shall not be liable for any default or delay in performance if caused, directly or indirectly, by acts of God, war, force or arms, fire, the elements, riot, labor disputes, picketing or other labor controversies, sabotage, civil commotion, accidents, any governmental action, prohibition or regulation, delay in transportation facilities, shortage or breakdown of or inability to obtain or nonarrival of any labor, material or equipment used in the performance of the Services, failure of any party to perform any contract with Enviroscan, Inc. relative to the performance of the Services covered hereby, or from any cause whatsoever beyond Enviroscan's control, whether or not such cause be similar or dissimilar to those enumerated.

Enviroscan, Inc. shall be compensated for costs incurred when Services cannot be completed for any of the above causes.

6. MISCELLANEOUS

The Analytical Services are contracted for according to the laws of the State of Wisconsin. This document constitutes the full understanding of the parties (Enviroscan, Inc. and Customer), and no terms, conditions, understanding or agreement proporting to modify or vary the terms of this document shall be binding unless hereafter made in writing and signed by the party to be bound.

ENVIROSCAN

July 26, 1994

ENVIRONMENTAL AND ANALYTICAL SERVICES

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

Re: WIDOA

Please find enclosed the analytical results for the samples received July 12, 1994.

The Diesel Range Organics (DRO) analysis was completed using the WI. DNR Modified DRO Method. The polynuclear aromatic hydrocarbon (PAH) analysis was done in accordance with EPA Method 8310 using HPLC with ultraviolet and fluorescence detectors in series.

The chain of custody document is enclosed.

If you have any questions about the results, please call. Thank you for using Enviroscan Corp. for your analytical needs.

Sincerely,

Enviroscan Corp.

Dominic J. Bush

Senior Analytical Chemist

ANALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: WIDOA SAMPLED BY: Client DATE REC'D: 07/12/94 REPORT DATE: 07/26/94 PREPARED BY: DJB0775 REVIEWED BY: \h/

Attn: Cy Ingraham

Modified Diesel Range Organics (DRO)
Parameter # 78919

	DRO	Qualifiers	Date Ext Date Analyzed	Analytical No.		
A 5	171.	D3 D5	07/14/94 07/19/94	15260		
Detection Limit Units	50. μg/l					

Qualifiers:

(D5)

Only above indicated qualifiers apply.

(D1) The chromatogram is distinct for diesel.

(D2) The chromatogram is not distinct for diesel. It has characteristics of a product which has significant peaks within the DRO window.

(D3) The chromatogram is not distinct for diesel. All peaks within the DRO window are quantitated.

(D4) The chromatogram also contained significant peaks outside the DRO window.

The chromatogram also contained significant peaks and a raised baseline outside the DRO window.

The replicate spike recovery of this batch of samples was found to be 108.% and 114.%.

ANALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDOA
SAMPLED BY: Client
DATE REC'D: 07/12/94
REPORT DATE: 07/26/94
PREPARED BY: GLS

	Units	Detection Limit	A5 07/08/94	Qualifiers	Date Analyzed
EPA 8310 Acenaphthene Acenaphthylene Anthracene Benzo(a) Anthracene Benzo(b) Fluoranthene Benzo(k) Fluoranthene Benzo(ghi) Perylene Chrysene Dibenzo(a,h) Anthracene Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd) Pyrene 1-Methyl Naphthalene Naphthalene Phenanthrene	μg/1 μg/1 μg/1 μg/1 μg/1 μg/1 μg/1 μg/1	0.1 0.4 0.08 0.04 0.06 0.03 0.08 0.1 0.1 0.11 0.22 0.06 0.1 0.4 0.4 0.4 0.11 0.05	x x x x x x x x x x x x x x	Qualifiers	Analyzed 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94 07/19/94
Pyrene Extraction Date	μg/l	0.1	X		07/19/94 07/15/94
Analytical No.:			15260		

X = Analyzed but not detected.



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TERMS AND CONDITIONS

1. ORDERS

Customer may order Analytical Services by completing this form, submitting a written purchase order to Enviroscan, Inc. or by placing a telephone order which is subsequently confirmed in writing.

2. SAMPLES

When analyses only are ordered, Customer will be responsible for obtaining representative sample(s), preserving same in an appropriate manner, and forwarding them intact to Enviroscan, Inc. Customer has these responsibilities whether using own sample containers or containers provided by Enviroscan, Inc. Enviroscan, Inc. will exercise reasonable care in handling samples, but in no event shall Enviroscan's liability for loss or destruction of any sample exceed the amount paid for analysis of that particular sample.

3. CHARGES AND PAYMENT

Enviroscan, Inc. will perform Analytical Services in return for charges as outlined in our quotation, or as stated on Enviroscan's current price list. Terms of payment are Net/30 days. An additional charge of one and one half percent per month will be added to unpaid accounts.

4. WARRANTY-LIABILITY

Enviroscan, Inc. will perform Analytical Services and provide Customer with a written report of results. Notwithstanding anything herein to the contrary, liability in connection with any claim relating to Analytical Services shall be limited to, at Enviroscan's option, repeating the Services at Enviroscan's expense, or the refund of the charges paid for performance of the Services.

Except as expressly stated above, Enviroscan, Inc. makes no warranty, expressed or implied, whether of merchantability or fitness for any particular purpose or use or otherwise of the Services. In no event shall Enviroscan, Inc. be liable to Customer for any special, indirect, incidental or consequential damages arising out of, or as the result of, the performance of the Services, the use or loss of the use of a report prepared by Enviroscan, Inc., or for any charges or expenses of any nature incurred without Enviroscan's written consent, even though Enviroscan, Inc. has been negligent.

In no event shall Enviroscan, Inc., be responsible to the Customer for incidental, consequential, or special damages of any type or nature.

Except for claims for personal injury, the total liability of Enviroscan, Inc., to Customer arising under this order, whether arising by contract, tort, warranty (express or implied), strict liability, delay, inaccuracy in testing results, or otherwise shall not exceed the contract price of this order in the aggregate.

5. FORCE MAJEURE

Enviroscan, Inc. shall not be liable for any default or delay in performance if caused, directly or indirectly, by acts of God, war, force or arms, fire, the elements, riot, labor disputes, picketing or other labor controversies, sabotage, civil commotion, accidents, any governmental action, prohibition or regulation, delay in transportation facilities, shortage or breakdown of or inability to obtain or nonarrival of any labor, material or equipment used in the performance of the Services, failure of any party to perform any contract with Enviroscan, Inc. relative to the performance of the Services covered hereby, or from any cause whatsoever beyond Enviroscan's control, whether or not such cause be similar or dissimilar to those enumerated.

Enviroscan, Inc. shall be compensated for costs incurred when Services cannot be completed for any of the above causes.

6. MISCELLANEOUS

The Analytical Services are contracted for according to the laws of the State of Wisconsin. This document constitutes the full understanding of the parties (Enviroscan, Inc. and Customer), and no terms, conditions, understanding or agreement proporting to modify or vary the terms of this document shall be binding unless hereafter made in writing and signed by the party to be bound.

enviroscan

RECEIVED

August 30, 1994

SEP 01 1994

ENVIRONMENTAL AND ANALYTICAL SERVICES

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

SHORT, ELLIOTT, HENDRICKSON CHIPPEWA FALLS, WI

Attn: Cy Ingraham

Re: WIDOA9417

Please find enclosed the analytical results for the samples received August 11, 1994.

The Diesel Range Organics (DRO) analysis was completed using the WI. DNR Modified DRO Method.

The chain of custody document is enclosed.

If you have any questions about the results, please call. Thank you for using Enviroscan Corp. for your analytical needs.

Sincerely,

Enviroscan Corp.

Dominic J. Bush

Senior Analytical Chemist

NALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: WIDOA9417 SAMPLED BY: Client DATE REC'D: 08/11/94 REPORT DATE: 08/30/94 PREPARED BY: DJB/0 77

REVIEWED BY:

Attn: Cy Ingraham

Modified Diesel Range Organics (DRO)
Parameter # 78919

	DRO	Qualifiers	Date Ext	Date <u>Analyzed</u>	Analytical
A5-NW-3.5	X		08/11/94	08/25/94	18170
A5-WW-4	X		08/11/94	08/21/94	18171
A5-SW-5	X		08/11/94	08/21/94	18172
A5-EW-2.5	X		08/11/94	08/21/94	18173
Detection Limit					
Units	μg/g				

X = Analyzed but not detected.
Results calculated on a dry weight basis.

Qualifiers:

Only above indicated qualifiers apply.

- (D1) The chromatogram is distinct for diesel.
- (D2) The chromatogram is not distinct for diesel. It has characteristics of a product which has significant peaks within the DRO window.
- (D3) The chromatogram is not distinct for diesel. All peaks within the DRO window are quantitated.
- (D4) The chromatogram also contained significant peaks outside the DRO window.
- (D5) The chromatogram also contained significant peaks and a raised baseline outside the DRO window.

The replicate spike recovery of this batch of samples was found to be 122.% and 126.%. The replicate spikes are above the method control limit of 120.%.

NALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: Cy Ingraham

CUST NUMBER: WIDOA9417
SAMPLED BY: Client
DATE REC'D: 08/11/94
REPORT DATE: 08/30/94
PREPARED BY: DJB 500
REVIEWED BY: 16

	Total Solids	Analytical
Sample ID_	EPA 160.3	No.
A5-NW-3.5	88.7	18170
A5-WW-4	85.8	18171
A5-SW-5	80.9	18172
A5-EW-2.5	88.9	18173
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☐ Wastewater	☐ Ski	in Irritant		Wea	r Glov	es					/	'5/	/	/	/		
y Soil		ghly Toxic									/,	$\mathcal{I}/$	/	/			
☐ Solid Waste	☐ Otl	ner (spec	ify)								1	$\nu/$	/		/ /	/	
☐ Oil ☐ Other										١,	0	/			/ /		
Li Other	_									/	α	5%	' /				
LAB USE ONLY	DATE	TIME	No Conta			s	AMPLI	E ID								REMAR	≀KS
09018170	819194	1:35		2	AS	5-/	VW.	-3,5	5 V	X	K						
09018171	8/9/94	2:55		2	4	_	·WC		11	×	×						
09018172	8/9/94	2:40		2	AS	<u> </u>	SW	-5	V	×	×						
09018173	8/9/94	3:30		2	4			-2		×	x						
3 * 34																	
* .																	
HORT														_	7	YESSY TOO WELL	_
CHAIN O	E CI	CTO	DΥ	PF	CO	PΠ	4						land `ont. O		1111	I NA K	ece
CILAIN	r-CU	210		עקו	CO.						Re	ec'd F	Refrig.	?		N/A	90
SAMPLERS: (Signa	ture)		7										K?			II IN/A/CC	ica
Hein	: E.	Lu	co	Car	2								s leak ents:			N/A	
RELINQUISHED BY	Y: (Signat			E/TIM			CEIVED	BY: (Si	ignature	e)							
Ben 7. E	wo		3-10			+											
RELINQUISHED BY	Y: (Signat	ure)	DAT	F/TIM	F	REC	CEIVED	BY: (Si	ianature	e)							

DATE/TIME

RELINQUISHED BY: (Signature)

RECEIVED FOR LABORATORY BY; (Signature) See (Ceady) DATE/TIME 112 ARM

Appendix C

Thermal Treatment Application

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL ASPHALT PLANT OR OTHER TYPE OF THERMAL TREATMENT UNIT

Form 4400-149

This form is required by the Department of Natural Resources for leaking underground storage tank sites to ensure that petroleum contaminated soil is treated or disposed of in compliance with NR 500-540, NR 158, and NR 419, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426(1), 144.74 (1), and 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

DIRECTIONS: 1) Complete parts I and II. 2) Submit the application to the DNR project manager for approval. 3) Have the treatment facility complete part III of the approved form after the soil has been treated. 4) Return the ORIGINAL form to the DNR project manager. 5) Keep a copy for your files.

	COMPLETE PART L urce of Soil
Site/Facility Name	Site LD. # (for DNR use only)
Fort McCoy	
Site Address	Contact Name
Fort McCoy- Various sites for training	Kurt Brownell
City, State, Zip Code	1/4, 1/4, Section, Township, and Range
Sparta, WI 54656-5000	T17, 18, 19N; R2, 3W
The information on this form is accurate to the best of my knowled Signature of Soil Generator	ige. Telephone Number (include area code)
	(608) 388-2160/2363 (Kurt Brownell)
Consulting Firm Llan L. Balliett Contact	Telephone Number
Estimated Volume Contaminated Soil Actual 138.07	
110 Tons cubic yards (circle one)	<pre>sand (SP, SW) silty/clayey sands (SM, SC) silt (ML, MH, OL)</pre>
Type of Petroleum Contamination (Circle):	clay (Cl, CH, OH)
Gasoline Diesel Fuel/#2 Fuel Oil	gravel (GC, GM, GP, GW)peat (PT)
Other	Distance to Nearest Residence/Business
Contaminant concentration:	
soil shown to be contaminated during the site investigation/excavation RESULTS OF BOTH FIELD SCREENING AND LAB ANALYS	yds ³ when the field instrument does not register contamination on on or stockpiling. PLEASE ATTACH A TABLE LISTING
Total Benzene in soil to be remediated (attach calculations)	
Total Petroleum Hydrocarbons(TPH) in soil to be remediate	ed (attach calculations) 105 lbs
Total TPH as DRO	

Rev. 5-91



ATTACH EMISSIONS CALCULATIONS

Part II: Proposed T	Treatment Facility
Name of Plant Mathy Construction Co.	Plant number and Model 6
Contact Gale Jensen	DNR Facility I.D. No. 632027770
Address Conoco Road (or location of portable plant)	Distance to Nearest Residence/Business 1300 feet +
LEAVE BLANK - DEPARTMENT OF N	NATURAL RESOURCES USE ONLY
Application Concurrence: Air Management Project Manager	Date Ouly 14, 1994 Date
Comments:	
THIS SECTION TO BE COMPLETED BY THE ASPHALT/THE AFTER PROCESSING Part 1	
WDNR Air Pollution Control Permit Number 632027770 - NO.	
Date of transport to plant 8/12/94	
Transporter Name Allan Gerke + Sans	Transporter License Number 10 \$37
Circle One: Roasted and Incorporated Roasted	Only
Total Benzene emissions in pounds for this batch (apply 50% destructions)	ion factor if no after burner is used)
Benzone emissions to date for this plant (including this batch) for this	calendar year
Signature of Treatment plant representative	Telephone Number at Plant. 608-783-2404
POST BURN SAMPLE RESULTS: COMPLETE ONLY FO	R SOILS NOT INCORPORATED!
(One representative sample for each 100 cubic yards-not composites)	
Sample Number	
IPH	
DNR APPROVAL IS REQUIRED BEFORE USING AS COMMOI	N FILL

1. 1. 1

State of Wisconsin Department of Natural Resources

State Div. Emergency Gov't. U.S. Nat'l. Response Center Chemtrec/Pesticides/Chlorine (608) 266-3232 (800) 424-8802 (800) 424-9300 TOXIC AND HAZARDOUS SPILL REPORT Form 4400-91 Rev. 6-86 Spill ID Number 44062815 VVMMDDD 0-99

Date of Incident	Day of Week	Time of Incident		Reported By (Name)	Telephone Number					
28 JUN94	Tuesday	1100	□ P.M.	DAN Guethal	(608) 388-377					
Date Reported	Day of Week	Time Reported	\square A.M.	Agency or Firm Reporting	Reported thru Div. Emergen.					
28 JUN94	Tuesday	1130	□ P.M.	MATES	Gov't. Yes No					
Substance Involved	1	Quantity	Units	Person or Firm Responsible	11.00					
Diesel		2 5	GAVON	Ft. Mc (og En	Ironmental Office					
Substance Involved		Quantity	Units	Contact Name	Telephone Number					
				Colleen Kassen	a 16081388-4786					
Physical Characterist	ics			Address - Street or Route						
Solid	☐ Liquid	Color		South J. St	1. 3 B RE THE WAY					
				City, State, Zip Code	111=1					
Semisolid Cause of Incident	☐ Gas	Odor		Action Taken By Spiller 5	JI 54656					
/ /	-	_								
Exact Location Descr	intion (intersect	ion mileage etc.)	* * * *	No Action No Taken Notific	ation Investigate					
3 862 784	iption (intersect	ion, inneage, ecc.)								
County Location	1/41/4 1/4 Section	on, Town, Range		Containment; Type						
July Housion	7,77, 74, 500010	, zomi, mango		Cleanup; Method						
Morroe		, TN	, R	Amount Recovered						
DNR Dist DNR Area	Groundwaters			Monitor						
	☐ Yes		tential	Contractor Hired; Name						
Surface Waters Affec		Name of Surface	Water	Other Action						
☐ Yes No	Potential			Spill Location						
Date District	Day of Week	Time District No	tified	☐ Industrial Facility/Paper Mill/0	Chem. Co.					
Notified			A.M.	Gas/Service Station/Garage, Auto Dealer, Repair Shop						
27 JUN94	Tyes	3:30	☐ P.M.	Ag Coop/Facility/Cheese Factory/Creamery						
District Person Notifi		Telephone Number	er							
Tim Bat	er		84-1404	Other Small Business (bank, g						
Date Investigated	Day of Week	Time Investigate		Public Property (city, county,						
			☐ A.M.	Utility Co., Power Generating/	Transfer Facility					
		77 - 1 2 30	☐ P.M.	Private Property (home/farm)						
Person Investigating		Telephone Numb	er	Pipeline, Terminal, Tank Farm	, Oil Jobber/Wholesaler					
				Transportation Accident, Fuel	Supply Tank Spill					
Action Taken By DN	R			☐ Transportation Accident, Load						
_ No Action			rvise/Conduct	Construction, Excavation, Wre						
☐ Taken	☐ Investiga	tion L Clear	nup		0 1 1					
Spiller Required				1 0 00 0 011	acility					
☐ Take Action; Typ		Ny i si	F + 37 7	Spilled Substance Destination	7					
Contractor Hired				Air	and the same of th					
☐ By DNR; Name				Soil						
☐ Amount Recovered	ed			Groundwater						
29.29 Enforcement	nt			Surface Water						
Other Agencies on Sc	ene			Storm Sewer						
				Sanitary Sewer						
Local				Contained/Recovered						
N. e.			94°	Other						
State				Person Filing This Report (print na	ame)					
4				Colleen KASS						
Federal 1	124 - 1		1 1-9	Signature	Date Signed					
				1 WHILL KADAD	100 775/10/6					
				1 compre	a July					

Department of Natural Resources	v. Emergency Gov't.	Form 4400-91 Rev. 6-86 (608) 266-3232 Spill ID Number
U.S. Nat	'l. Response Center c/Pesticides/Chlorine	(800) 424-8802 Sput 115 14 dimber
Discovered Tolay - ongoing	for 2 we	(800) 424-9300 EKS (approx.) YYMMDD 0-99
Date of Incident Day of Week Time or in	OO D P.M.	Reported By (Name) Refer Schuster (608) 242-3355
Date Reported Day of Week Time Rep		Agency or Firm Reporting Reported thru Div. Emergen.
6-28-94 TUES 14	05 X P.M.	Environmental Office Gov'L Yes No
Substance Involved Diese Fuel 50-93	Units 99	WI Army Nat'l Guard
Substance Involved Quantity	Units	Contact Name Telephone Number
Physical Characteristics	JUN 291	Address — Street or Routo
☐ Solid ☐ Liquid ☐	color.	P.O. 80X 14587
☐ Semisolid ☐ Gas)dor	City State, Zip Code WI 537/4-058
Cause of Incident	ian for	Action Taken By Spiller
Leaky five System on g p. Exact Location Description (intersection, mileag	e etc.)	No Action No . Taken Notification
t. McCoy Property - Unit Vehicle	Storage Compain	Containment; Type
County Location 44, 4, Section, Town, I		& Cleanup; Method Excavated Visibly contenie
Monroe Near Bldg. 24	N, R	Amount Recovered material will do Soil sample
DNR Dist DNR Area Groundwaters Affected		☐ Monitor
WD La Crosse - Yos XNO	☐ Potential	Contractor Hired; Name
	Surface Water	Other Action
Potential Date District Day of Week Time Dis	trict Notified	Spill Location Industrial Facility/Paper Mill/Chom. Co.
Notified	// A.M.	Gas/Service Station/Gurage, Auto Dealer, Repair Shop
6-28-94 TUES 14	/ D.M.	Ag Coop/Facility/Cheese Puctory/Creamery
	e Number 81 3 72-23/7	
Date Investigated Day of Wook Time Inv		Public Property (city, county, state, church, school, etc.)
	□ ∧.м.	Utility Co., Power Generating/Transfer Facility
70.1		Private Property (home/farm)
Person Investigating Telephon	Number	Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler
Action Taken By DNR		Transportation Accident, Fuel Supply Tank Spill
_ No Action	_ Supervise/Conduct	Transportation Accident, Load Spill Construction, Excavation, Wrecking, Quarry, Mine
.] Taken	☐ Cleanup	Other
Spiller Required To Jake Action; Type		Spilled Substance Destination
Contractor Hired		Air
☐ By DNR; Name		Soil
Amount Recovered		☐ Groundwater ☐ Surface Water
29,29 Enforcement		Storm Sewer
Other Agencies on Scene		Sanitury Sewer
Local		Contained/Recovered
	(Acc	Other
State		Person Filing This Report (print name) 608-266-2441
Foderal		Signature Howard 6-28-94
Additional Comments:		Cary 70000 6-35-11
		2011(2 [00=) EVP
CENTRAL OFFICE COORDINATOR) SKIP	DAKEK (DKT)

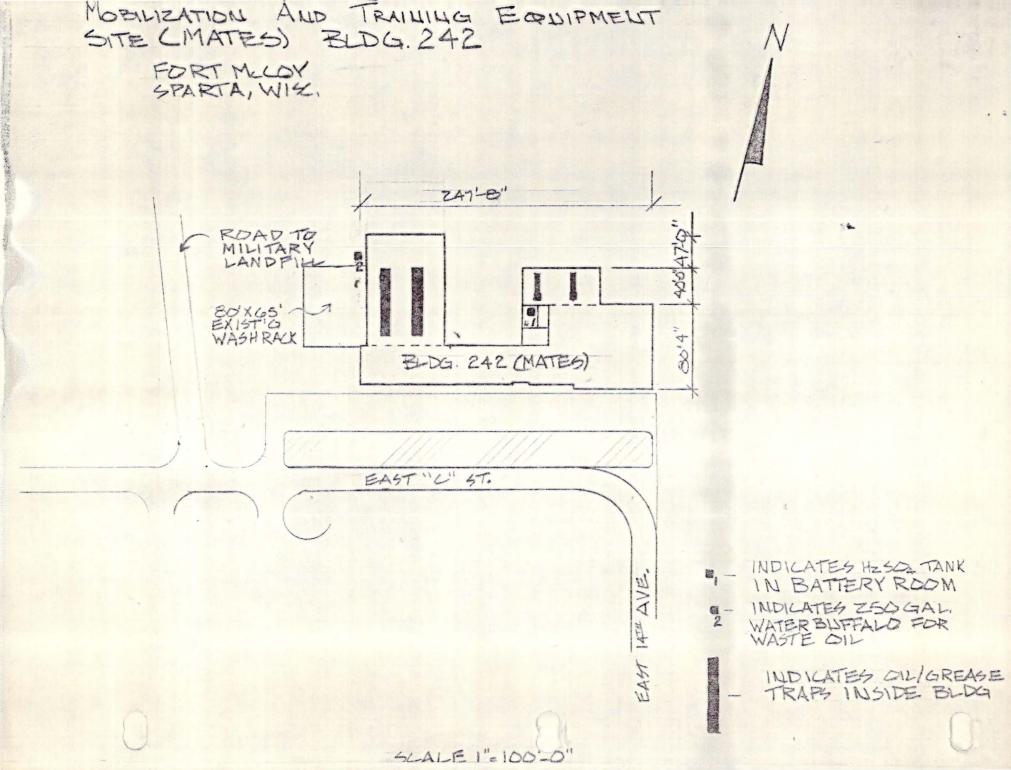
State of Wisconsin Department of Natural Resources

TOXIC AND HAZARDOUS SPILL REPORT Form 4400-91 Rev. 6-86

State Div. Emergency Gov't. U.S. Nat'l. Response Center Chemtrec/Pesticides/Chlorine (608) 266-3232 (800) 424-8802 (800) 424-9300 Spill ID Number

Y Y M M D D 0-99

	termination of the second second			Y M M D D 0-99					
Date of Incident Day of Week	Time of Incident	A.M.	Reported By (Name)	Telephone Number					
22 Jun 94 Wednesde	1000	P.M.	Sleven Pelerson						
Date Reported Day of Week	Time Reported	A.M.	Agency or Firm Reporting	Reported thru Div. Emergen.					
22 Jun 94 wichesh	1015	□ P.M.	W) Mational Gua	Gov't. Yes N					
Substance Involved	Quantity	Units	Person or Firm Responsible	1110 11					
Diese/	2 2	gal	Collega Lassera						
Substance Involved	Quantity	Units	Contact Name	Telephone Number					
Physical Characteristics			Address — Street or Route	7 (600) 300 7/00					
Solid Liquid	Color		form cated war	report Disson					
☐ Semisolid ☐ Gas			City, State, Zip Code	150					
Cause of Incident	Odor		Action Taken By Spiller	37618					
Lealing truck									
Exact Location Description (intersect	ion milaggo eta)		No Action No Notific	otion Insertingto					
	ion, inneage, etc.)			ation					
County Location 1/4 1/4, 1/4, Section	on, Town, Range		Containment; Type						
County Location 7474, 74, Section	on, Town, Range		Cleanup; Method	con at 50/					
Marca	, TN	R	Amount Recovered						
DNR Dist DNR Area Groundwaters		- 4-	Monitor						
DNR Dist DNR Area Groundwaters Yes		tential	Contractor Hired; Name	Transfer and the second					
Surface Waters Affected	Name of Surface		Other Action						
☐ Yes ☑ No ☐ Potential			Spill Location						
Date District Day of Week	Time District No	tified	☐ Industrial Facility/Paper Mill/C	Chem Co					
Notified		A.M.							
23 Sungy Wed	0730	☐ P.M.	Gas/Service Station/Garage, Auto Dealer, Repair Shop Ag Coop/Facility/Cheese Factory/Creamery						
District Person Notified	Telephone Number	er							
In Baker 715	284)44	/	U Other Small Business (bank, gr	rocery, insurance co., etc.)					
Date Investigated Day of Week	Time Investigate	d	Public Property (city, county, state, church, school, etc.) Utility Co., Power Generating/Transfer Facility						
		☐ A.M.							
		□ P.M.	Private Property (home/farm)						
Person Investigating	Telephone Number	er	Pipeline, Terminal, Tank Farm	Oil Johber/Wholesaler					
	()								
Action Taken By DNR			Transportation Accident, Fuel						
No Action	Super	vise/Conduct	☐ Transportation Accident, Load						
☐ Taken ☐ Investiga			Construction, Excavation, Wrecking, Quarry, Mine						
Spiller Required To			Other Other						
Take Action; Type	500000 0		Spilled Substance Destination	6					
Contractor Hired			☐ Air						
By DNR; Name		1 1 1	□ Soil						
Amount Recovered		2007	☐ Groundwater						
29.29 Enforcement			☐ Surface Water						
Other Agencies on Scene		4.1	Storm Sewer						
			☐ Sanitary Sewer						
Local			Contained/Recovered						
			Other						
State			Person Filing This Report (print na	me)					
	n . A.		Callee KAS	sera					
Federal			Signature	Date Signed					
			Date Signed						
			111111111111111111111111111111111111111	and the last of the last					



FORM

HAZARDOUS WASTE PERMIT APPLICATION

I. EPA I.D. NUMBER S T/A C

	RA	The state of the s	00		(T	his information	consolidate on is requir				005 o	fRC	RA.)	FWI	3 2	2 11 10	0 0 1	2 0	15	6 3	14 15
DANDGOVIE	DECIMENTAL	THE PERSON NAMED IN	ICI	AL USE ONLY																	
	LIC			(yr., mo., & day)								со	MMENTS								
	2	3	24 20																		
-	-	-	***************************************	REVISED APPLI		Chi Carpana				An speak	V. 1800			Track York							
revi	sed a	app	licat	the appropriate box ion. If this is your fi er in Item I above.	in A or rst appl	B below (ma ication and y	ou already	knov	y to inc	dicate v acility	wheth 's EP	er th	is is the first app . Number, or if	olication this is a	you a revised	re subn I applic	mitting ation,	for ente	your er you	facilit ır facil	y or a ity's
A. FIRST APPLICATION (place an "X" below and provide the appropriate of [X] 1. EXISTING FACILITY (See instructions for definition of "existing" for Complete item below.)										-		2.NE	WFAC	ILITY				ı belou FACIL			
VR. MO. DAY FOR EXISTING FACILITIES, PROVIDE THE I OPERATION BEGAN OR THE DATE CONSTR							UCTIO	(yr., r		ENCED	73 74	MO.	DA 1	Y (yr	OVI	DE T	HE D	PERA-			
B. I	acceptance.	-		APPLICATION (F			ind comple	te Ite	m I abo	ve)			~ [2. FA	CILIT	Y HAS	A RC	RA	PERI	TIN	The state of the s
YTY	72	2	MICHIGANIC AND	was making making paramata to continue was the continue		and the second second second second second	CITIES				W 100			72			3197.67				
B. I	A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C). 3. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process. 1. AMOUNT — Enter the amount. 2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.																				
				00500	PRO- CESS	MEASUR	FOR PRO	OCES				DE	00500		PRO- CESS	ME	ASURI	EFC	R PF	ROCES	
5+	orag	no:	PE	OCESS	CODE	DESIG	N CAPACI	TY	-	Tres	tmen	-	OCESS		CODE		DESIG	NC	APA	HIY	_
C	TNC	TAI	NER	(barrel, drum, etc.)	501	GALLONS				TAN		6.			TOI		LONS			OR	
	ANH		PILE		503	GALLONS CUBIC YAI CUBIC MET	RDSOR	ъ		SUR	FAC	EIM	POUNDMENT		T02	GALI	RS PE LONS RS PE	PER	DA	OR	
SU	JRF	AC	EIN	POUNDMENT	504	GALLONS		5		INCINERATOR T03 TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR							? :				
-	spo	-	Separate services	VELL	D79	GALLONS	OR LITER	c								GALI		PER	HOI	JR OR	
L	ANE	O A	PPLI	CATION	D80 D81 D82	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER B1 ACRES OR HECTARES				then proc surfa	mal o esses ice im	r biol not c pour scrib	ne for physical, chemical, TO4 GALLONS PER DAY OR biological treatment LITERS PER DAY of LITERS PER DAY of LITERS PER DAY of the counterprise of the processes in covided; Item III-C.)								
				ASURE	UNIT MEAS CO!	URE	UNIT OF		ASURE			ME	NIT OF ASURE CODE	UNIT	OF M	EASUF	RE			UNIT MEAS CO	SURE
CI G	JBIO JBIO ALL	RS C Y C M _ON PLE	ETE S PI	os. :rs. er DAY R COMPLETING ITE 400 gallons. The fac	 EM III /	Y C U shown in line	LITERS TONS PE METRIC GALLON LITERS numbers	TON SPE PER	S PER R HOU HOUR	R	: :	facili	w E H ty has two stora	HECT ACRI HECT	FARE-MES	METER	₹		: : :		m Q
s C				DUP	-	T/A C		1	1	1	1	1		1	11	1	1	7		1	77
1 12	1		7	B. PROCESS	CHARLES THE PARTY OF THE PARTY OF	14 15 A	ITY	1	1 1	17	1	1	B. PROC	TESC T	ESIC	1	DVCI.	TV		1	
LINE	C (fre	PR OD om bov	S E list	I. AM	TNUC	SN CAPAC	2. UNIT OF MEA- SURE (enter code)	OFF	FOR FICIAL USE NLY	LINE	A.P CE CO (from abo	DE list		. AMOU		NCAI	PACI	2. U OF 1 SU (e)	INIT MEA- IRE iter de)	OFF	OR ICIAL SE ILY
X-1	S 16	0	2	600)	2.7	28 G	29	- 32	5	16 -	18	19	- OR			27		2.8	29	32
X-2	T	0	3	20			E			6											CO PROCESSION OF THE PROCESSIO
1	S	0	2	825	Meuropouro Medico estrugado		G			7			Washrack Oil Mis				ista				The state of the s
2	Т	0	1	25			U			8			Oil Mis Battory Neutral	Acto	1	orak					
3				and a file of the second se	~		i i			9				and the same	- Character Char						
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	16		18	19		27	28	29		-	16	1 88	19				27	-	28	29	32

1	DD	ar	Decre	(continued)	١
E .	A LA	UL	DOOLO	(commuea)	

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

. DESCRIPTION OF HAZARDOUS WASTES

EPA HAZARDOUS WASTE NUMBER — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s/ that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE
POUNDSP	KILOGRAMSK
TONS	METRIC TONS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

TE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by ore than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

*AMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds a year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes a corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 10 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA	D. ESINESIES AND ALVINORL	C. UNIT	D. PROCESSES							
SO.	HAZARD. WASTENO (enter code)		SURE (enter code)	1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))						
1	K 0 5 4	900	P	T 0 3 D 8 0							
2	D 0 0 2	400	P	T 0 3 D 8 0							
3	D 0 0 1	100	P	T 0 3 D 8 0							
4	D 0 0 2				included with above						

A	EPA	1.0	. N	UM	BER (enter from page 1)	1	/ ,	1	1812		FC	ROF	FICE	IAL USE	
WW.	Ł.	3	2	1	0 0 2 0 5 6 3 1	1	1	W				DU	P		T/A C 2 D U P
IV.	DES	CF	IP	TIC	N OF HAZARDOUS WASTE	ES (c	onti	nue	d)						
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II. OPERATOR INFORMATION	
W 上於情報的 \$ 10-75 most street s	B. is the name listed in
	Item VIII-A also the
NIENAS JIMMIE D LTC OD WIARNG	YES X NO
16 William Control of the Control of	00 SG
CO'C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)	D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state) S (specify) S = STATE O = OTHER (specify) P = PRIVATE	A 6 0 8 3 8 8 3 7 7 6
E: STREET OR P.O. BOX	
M.A.T.E.S., W.I.A.R.N.G., B.L.D.G., 2.4.2	
G.STATE H. ZIP CODE	IX. INDIAN LAND
	is the facility located on Indian lands?
FORT MCCOY	☐ YES ÖNO
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Department of Natural Resources ENVIRONMENTAL REPAIR PROGRAM CASE TRACKING FORM FOR VER. 2.0 Form 4400-144 I.D. # District: <u>Western</u> County: <u>Monroe</u> Address: <u>Blda 24/Maintenance Conp</u> Site Name: / PMN: FID: Case No .: m Baker Legal Desc: __1/4 __ 1/4 Sec ___, T ___, R ___ E/W Proj. Mgr: Lat: N _____ ' Long: W ____ Support Person: -_ Date of Letter: Date of Initial Contact: 18/24/92 09/02/92 FUNDING SOURCE: ENFORCEMENT AUTHORITY: STATUS: 1 = RP 1 = Spill Law s. 144.76, Wis. Stats. 1 = State Lead 2 = Envir Repair Law s. 144.442, Wis. Stats. $V_2 = RP Lead$ 2 = LTF3 = Hazardous Waste Rules 3 = 臣 3 = EPA Lead PRIORITY SCREENING: 4 = Solid Waste Rules 4 = SF5 = CERCLA5 = None 1 = High6 = Abandoned Container 6 = Other (Describe In Comments) 2 = Low7 = Other (Describe in Comments) 7 = EPA (Emergency Resp.) √3 = Unknown Date Site Closure Approved: Pre-score: OTHER PROGRAMS INVOLVED: (Check all that apply) Water Supply Aban Containers NR 500 Spills Water Resources Mgt Lust NR181 Superfund Other RESPONSIBLE PARTY: John Jacobson Name: 130x 8111 Address: Address: madison, WI Phone: (List additional on separate list & attach.) KNOWN IMPACTS (X) POTENTIAL IMPACTS (X) Fire/Explosion threat (2)Contaminated Private Well Contaminated Public Well (3)Groundwater Contamination (4) (5)Soil Contamination Other CONSULTANT INFORMATION: Company: Company: Phone: Phone: Contact Person: Contact Person: Address: Address: (List additional on separate list & attach.) CASE COMMENTS: