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KEROSENE UNDERGROUND STORAGE TANK SITE INVESTIGATION PROGRESS REPORT

TECUMSEH PRODUCTS COMPANY GRAFTON, WISCONSIN

PREPARED FOR:

TECUMSEH PRODUCTS COMPANY GRAFTON, WISCONSIN

SUBMITTED BY:

FOX ENVIRONMENTAL SERVICES, INC. MILWAUKEE, WISCONSIN

PROJECT: F-92513

OCTOBER, 1992

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FOX ENVIRONMENTAL SERVICES, INC.

October, 1992

Foster Johnston, REP, CHCM

SITE INVESTIGATION Kerosene Tank

Tecumseh Products Company Grafton, Wisconsin

Project No. F - 92513

INTRODUCTION

This is a progress report to summarize the site investigation activities completed by Fox Environmental Services, Inc. (FOX) at Tecumseh Products Company, 900 North Street in Grafton, Wisconsin (Figure 1). The site investigation was in response to a leak from a kerosene underground storage tank (UST).

BACKGROUND

On June 15 & 16, 1992, E&K Hazardous Waste Services, Inc. (E&K) removed a 350 gallon kerosene UST and the associated piping, and performed a tank closure assessment. At four locations within the tank excavation soil contamination was detected (32 - 8,400 parts per million) by the analytical laboratory. For details of the closure assessment, refer to the report titled "Site Assessment and Tank Closure Report"; Tecumseh Products Company; Grafton, Wisconsin; E&K No. 152922, dated August 18, 1992.

SITE INVESTIGATION

On September 11, 1992, four soil borings were placed in and around the excavation backfill for the kerosene tank which was in the maintenance storage area on the east side of the building. The location of the borings are identified in **Figure 2.** Using a General 550 drill rig soil samples were collected with a six (6) inch shelby tube and screened in the field with a Thermo Electron, Model 580, photoionization detector (PID). The soil was classified and entered on boring logs along with the results of the screened samples **(Appendix A)**. The soils were a beige sand and gravel fill with cobbles down to 4 to 5 feet, and light yellow brown, fine to medium sandy clay to about 10 feet. The depth of the borings ranged from eight (8) to ten (10) feet and water was encountered at ten (10) feet. A total of four soil samples were submitted to PAL for diesel range organics (DRO), petroleum volatile organic compounds (PVOC), and polynuclear aromatic hydrocarbons (PAH) analysis. The boreholes were properly abandoned, however, the depths were less than 10 feet and no abandonment forms were completed.

SB1KT was forced to terminate at eight feet due to the rock and gravel fill. Due to the interior constraints of the building, a compact drill rig was used but, with only a 5 horsepower engine, lacked the power to advance beyond this depth. Two additional boring locations (SB3KT and SB4KT) were also terminated at four feet for the same reason as SB1KT. Only soil boring SB2KT was advanced to a sufficient depth for site investigation purposes. A more powerful but larger drill rig was mobilized to the site, however, the attempt to place it in the maintenance storage area failed due to the narrow wall openings.





RESULTS

The results of the laboratory analysis are summarized in **Table 1** and a copy of the lab report is in **Appendix B**. Concentrations of DRO were detected in SB1KT 7' - 7.5' and SB1KT 8' - 8.5' at 230 and 390 parts per million (ppm), respectively. No DRO were detected in SB2KT 7.75' - 8.25' and SB2KT 9.75' - 10.25'. No PVOC or PAH were detected in any of the samples.

TABLE 1KEROSENE TANK

	SB1KT 7' - 7.5'	SB1KT 8' - 8.5'	SB2KT 7.75' - 8.25'	SB2KT 9.75' - 10.25'
DRO (in parts per million)	230	390	<10	<10

SUMMARY AND RECOMMENDATIONS

The results of the laboratory analysis detected concentrations of DRO in SB1KT 7' - 7.5' and SB1KT 8' - 8.5' at 230 and 390 ppm, respectively. The soil boring to the north (SB2KT) detected no DRO at 7.75' - 8.25' and 9.75' - 10.25'. In order to assess the extent of the contamination, a more powerful drill rig capable of being placed in the maintenance storage area and auguring through the rocky fill, is needed. FOX recommends modifying a trailer-mounted SIMCO rig onto skids and continuing with the soil borings in and around the excavation backfill, as originally planned.

APPENDIX A

South Contraction

1-----

denteration burning

Annual Annual

Annuel Constraints and Annuel

Soil Boring Logs

SAMPLE/CORE LOG

BORING/WELL <u>SB1KT</u>	PROJEC	CT/NO. Tecumseh Products Co #92513 PAGE 1 OF 1	-
site location 900 North	Street DRILLIN	ng started <u>9:10 AM</u> drilling completed <u>11:10 AM</u> date <u>9/1</u>	1/92
TOTAL DEPTH DRILLED 8	feet HOLE DIAM	IETER 4 inches TYPE OF SAMPLE/CORING DEVICE <u>Shelby Tube</u>	
LENGTH AND DIAMETER OF CO	RING DEVICE 6" x	x 1.5"SAMPLING INTERVALSAMPLING INTERVAL	
LAND SURFACE ELEVATION		feet_SURVEYEDESTIMATED DATUM	
drilling fluid used None	e	DRILLING METHOD Hollow Stem Auger	
DRILLING CONTRACTOR Gil	les Engineering	DRILLER Jeff HELPER Dean	
PREPARED BY Julie Erato	HA	AMMER WEIGHT NA HAMMER DROP NA	inches
Sample Core Depth (feet below land surface) Core	e Recovery OVA Meter Reading		
FROM TO	(feet) (units)	Sample/Core Description	
0 7 -		Drilled straight to 7', beige sand and gravel fill;	
7 7.5	0.5 18	Light yellow-brown fine to medium sandy clay with trace of cobbles;	
8 8.5	0.5	Light yellow-brown fine to medium sandy clay with trace of cobbles;	
		BORING TERMINATED AT 8.5' DUE TO REFUSAL	
	·····		

NOTES

SAMPLE/CORE LOG

BORING/WELI	<u>SB2K</u>	T	PROJEC	CT/NO. Tecumseh Products Co #92513 PAGE 1 OF 1	
SITE LOCATIC	м <u>900 Nc</u>	orth Street	DRILLIN	ig started <u>11:25 AM</u> drilling completed <u>12:05 PM</u> date <u>9/</u>	<u>1 1/92</u>
TOTAL DEPTH	I DRILLED	<u>9.75</u> fee	et HOLE DIAN	METER <u>4</u> inches TYPE OF SAMPLE/CORING DEVICE <u>Shelby Tube</u>	<u></u>
LENGTH AND	DIAMETER O	F CORING DEV	исе <u>6" х</u>	x 1.5" SAMPLING INTERVAL 2.0 feet	
LAND SURFAC	CE ELEVATIO	N		feet SURVEYEDESTIMATED DATUM	
DRILLING FLU	JID USED	None		DRILLING METHOD Solid Stem Auger	<u></u>
DRILLING CO	NTRACTOR	Giles Eng	ineering	DRILLER_JeffHELPER_Dean	-
PREPARED BY	yJulie Er	ato	HA	AMMER WEIGHT NA HAMMER DROP NA	inches
Sample Core De (feet below land	epth l surface)	Core Recovery	OVA Meter Reading		
FROM	TO	(feet)	(units)	Sample/Core Description	
0	3.75	******		A 45" hollow space exists beneath the concrete floor;	
5.75	6.25	0.5	0	Light yellow-brown fine to medium sandy clay;	
7.75	8.25	0.5	0	Light yellow-brown fine to medium sandy clay;	
9.75	10.25	0.5	0	Light yellow-brown fine to medium sandy clay; very moist	
-					

NOTES

APPENDIX B

Laboratory Report

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ax: (414) 272-6949 Project: \$\frac{2}{3} \subset St \sub	Phone: (414) 27	72-5222			Phon	e: (<u>41</u> 4	332-58	257 Fax: ()	•								
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Precision Analytical Lab, Inc. 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

Fox Environmental Services 5150 N. Port Washington Rd. Milwaukee, WI 53217

Attn: Lawrence L. Fox Invoice Number:

Order #: 92-09-132 Date: 09/30/92 16:12 Work ID: 92513 Date Received: 09/11/92 Date Completed: 09/30/92 Client Code: FOX_ENVIRO

SAMPLE IDENTIFICATION

Sample		Sample	Sample	Sample
Number		Description	Number	Description
01	SBKT	17-7.5	03	SBKT-24-4.5
02	SBKT	18-8.5	04	SBKT-26-6.5

Laboratory ID Number (Wisconsin DNR): 241369260

tagied By

Jeff Bushner

Order # 92-09-132 09/30/92 16:12 Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE Page 2

Units Analyzed By mg/kg 09/29/92 SEL

ug/kg 09/21/92 LJS ug/kg 09/21/92 LJS

ug/kg 09/21/92 LJS

Test Description Mod. DRO (WDNR)		<u>Result</u> 230
PVOC Soil, (WDNR) 8020		
Benzene	#	< 43
Ethylbenzene		< 43
Methyl-t-butylether		< 43
Toluene		< 43
1,2,4-Trimethylbenzene		< 43
1,3,5-Trimethylbenzene		< 43

Sample: 02A SBKT 18-8.5

Total Xylenes

Sample: 01A SBKT 17-7.5

Collected: 09/11/92

Collected: 09/11/92

<u>Limit</u>

Test Description		<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Mod. DRO (WDNR)		390		mg/kg	09/29/92	SEL
PAH Soil, Method 8270						
Acenaphthene		< 660		ug/kg	09/22/92	JJB
Acenaphthylene		< 660		ug/kg	09/22/92	JJB
Anthracene		< 660		ug/kg	09/22/92	JJB
Benzo(a)anthracene		< 660		ug/kg	09/22/92	JJB
Benzo(b)fluoranthene		< 660		ug/kg	09/22/92	JJB
Benzo(k)fluoranthene		< 660		ug/kg	09/22/92	JJB
Benzo(g,h,i)perylene		< 660		ug/kg	09/22/92	JJB
Benzo(a)pyrene		< 660		ug/kg	09/22/92	JJB
Chrysene		< 660		ug/kg	09/22/92	JJB
Dibenz(a,h)anthracene		< 660		ug/kg	09/22/92	JJB
Fluoranthene		< 660		ug/kg	09/22/92	JJB
Fluorene		< 660		ug/kg	09/22/92	JJB
Indeno(1,2,3-cd)pyrene		< 660		ug/kg	09/22/92	JJB
Naphthalene		< 660		ug/kg	09/22/92	JJB
Phenanthrene		< 660		ug/kg	09/22/92	JJB
Pyrene		< 660		ug/kg	09/22/92	JJB
PVOC Soil, (WDNR) 8020						
Benzene	#	< 50		ug/kg	09/21/92	LJS
Ethylbenzene		< 50		ug/kg	09/21/92	LJS
Methyl-t-butylether		< 50		ug/kg	09/21/92	LJS
Toluene		< 50		ug/kg	09/21/92	LJS
1,2,4-Trimethylbenzene		< 50		ug/kg	09/21/92	LJS
1,3,5-Trimethylbenzene		< 50		ug/kg	09/21/92	LJS
Total Xylenes		< 50		ug/kg	09/21/92	LJS

< 43

Sample: 03A SBKT-24-4.5

Collected: 09/11/92

Test	Description	<u>Result</u>	<u>Limit</u>	<u>Units</u>	Analyzed	<u>By</u>
Mod.	DRO (WDNR)	< 10		mg/kg	09/26/92	SEL

Order # 92-09-132 09/30/92 16:12

Toluene

Total Xylenes

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE Page 3

ug/kg 09/21/92 LJS

ug/kg 09/21/92 LJS

ug/kg 09/21/92 LJS

09/21/92 LJS

ug/kg

Test Description PVOC Soil (WDNR) 8020	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Benzene #	[£] < 50		ua/ka	09/21/92	LJS
Ethylbenzene "	< 50		ug/kg	09/21/92	LJS
Methyl-t-butylether	< 50		ug/kg	09/21/92	LJS
Toluene	< 50		ug/kg	09/21/92	LJS
1,2,4-Trimethylbenzene	< 50		ug/kg	09/21/92	LJS
1,3,5-Trimethylbenzene	< 50		ug/kg	09/21/92	LJS
Total Xylenes	< 50		ug/kg	09/21/92	LJS
Sample: 04A SBKT-26-6.5	Col	lected: 09/11/92			
Test_Description	Result	<u>Limit</u>	Units	Analyzed	By
Mod. DRO (WDNR)	< 10	· · ·	mg/kg	09/26/92	SEL
PVOC Soil, (WDNR) 8020					
Benzene #	£ < 50		ug/kg	09/21/92	LJS
Ethylbenzene	< 50		ug/kg	09/21/92	LJS
Methyl-t-butylether	< 50		ug/kg	09/21/92	LJS

< 50

< 50

< 50

< 50

Order # 92-09-132 09/30/92 16:12

The organic data is reported out on a dry-weight basis.

Sample was covered air tight in approved container, shipped in cooler from the source to our lab, temperature upon arrival was 4 degrees C.

The samples ordered for PVOC were analyzed according to Method 8020 (SW 846 Test Methods for Evaluating Solid Waste - Physical/ Chemical Methods)

The samples ordered for PAHs were analyzed according to Method 8270 (SW 846 Test Methods for Evaluating Solid Waste - Physical/ Chemical Methods)

The samples ordered for DRO were analyzed by the Wisconsin DNR Modified DRO method.

The extraction qc for the DRO samples exhibited recoveries that were just outside our normal criteria. The samples were not re-extracted due to hold-time considerations; however, the values reported should not be affected significantly.