MOTOR OIL TANK PIPING REMEDIAL ACTION REPORT

TECUMSEH PRODUCTS COMPANY GRAFTON, WISCONSIN

NOV 2 0 1992

PREPARED FOR:

TECUMSEH PRODUCTS COMPANY GRAFTON, WISCONSIN

SUBMITTED BY:

FOX ENVIRONMENTAL SERVICES, INC. MILWAUKEE, WISCONSIN

PROJECT: F-92513

OCTOBER, 1992

fox environmental services, inc.

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Foster Johnston, REP, CHCM

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REMEDIAL ACTION Motor Oil Tank Piping

Tecumseh Products Company Grafton, Wisconsin

Project No. F - 92513

INTRODUCTION

This is a report to summarize the remedial action completed by Fox Environmental Services, Inc. (FOX) at Tecumseh Products Company, 900 North Street in Grafton, Wisconsin (Figure 1). Site remediation was in response to a leak from piping for a motor oil underground storage tank (UST).

BACKGROUND

On June 15 & 16, 1992, E&K Hazardous Waste Services, Inc. (E&K) removed an 11,000 gallon motor oil tank and the associated piping, and performed a tank closure assessment. At two locations along the suction and return side piping run, soil contamination was detected in four samples (15 - 320 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.

REMEDIAL ACTION

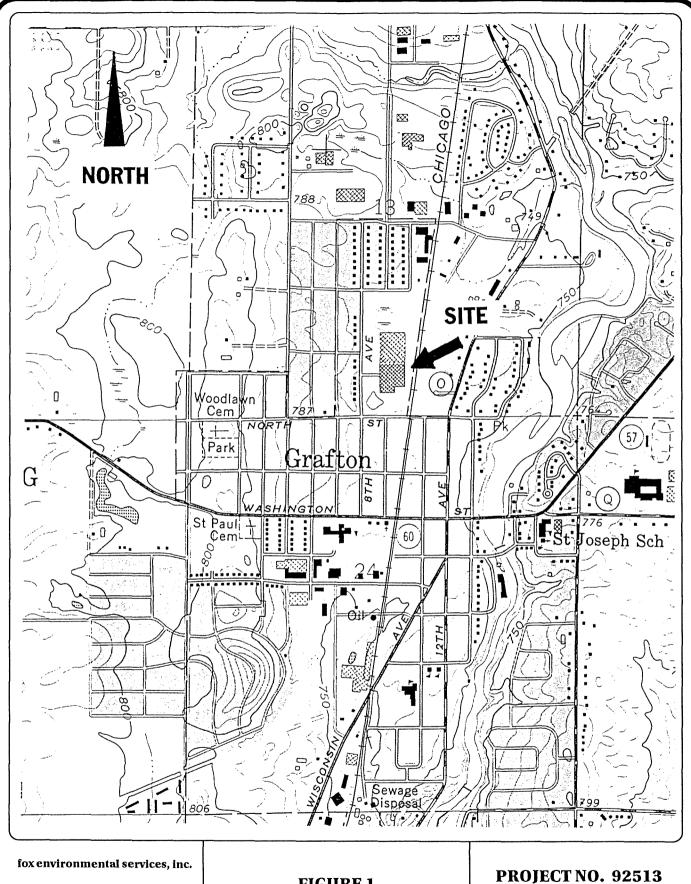
On September 15, 1992, a trench was excavated at the contamination location identified by E&K Hazardous Waste Services (E&K) as the 20 foot mark for the suction and return side piping run (also corresponding to sample I.D. 9595 and 9596). The trench was approximately 4 feet wide, 6 feet deep, and 10 feet long (Figure 2). The soil from the surface down to 3.5 feet was fill consisting of medium to course light brown sand. From 3.5 to 5 feet there was red brown loose clay and no water was encountered. The soil was not field screened because the photoionization detector (PID) does not respond well to the "heavy end" hydrocarbons like motor oil. One soil sample was collected from each end of the trench and a total of two soil samples were submitted to PAL for total recoverable petroleum hydrocarbons (TRPH) analysis.

Because of the high voltage electrical equipment and buried grounding rods, no attempt was made to excavate soil or collect samples for the contamination against the east wall of the building (corresponding to E&K sample I.D. 9608 and 9609).

RESULTS

The results of the laboratory analysis are summarized in **Table 1** and a copy of the lab report is in **Appendix A**. A concentration of TRPH was detected at the west end of the trench (OT2W) at 21 ppm. No TRPH were detected at the east end of the trench (OT1E).

fox environmental services, inc.

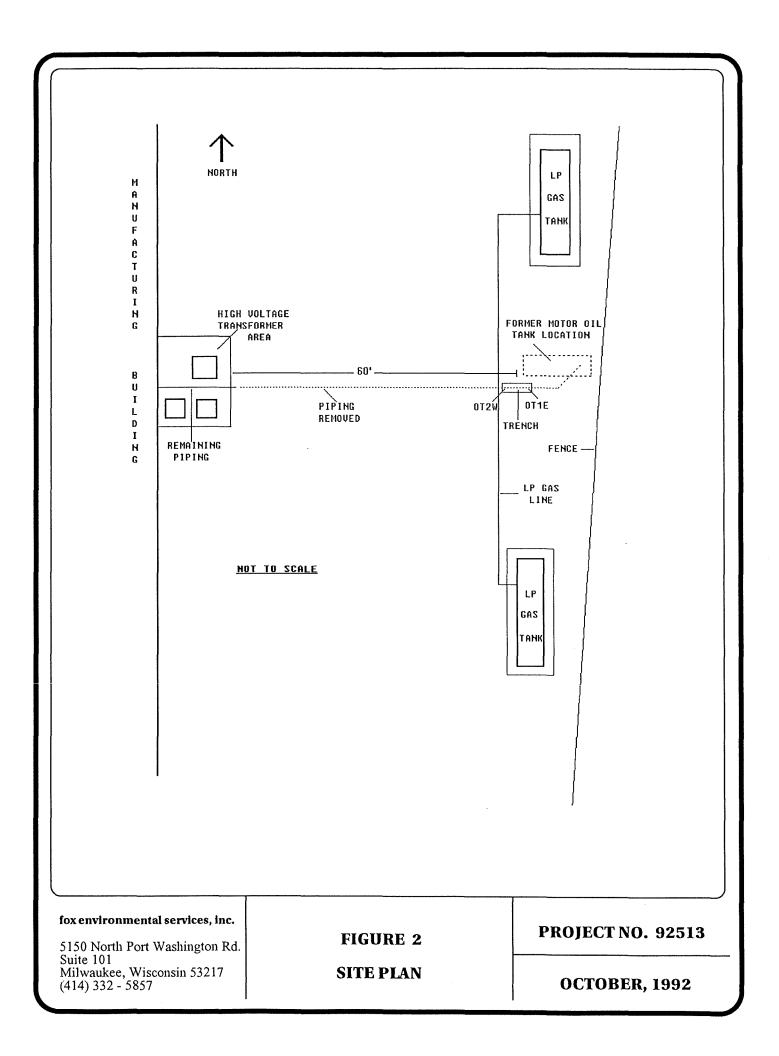


5150 North Port Washington Rd. Suite 101 Milwaukee, Wisconsin 53217 (414) 332 - 5857 FIGURE 1
LOCATION PLAN

OCTOBER, 1992

APPENDIX A

Laboratory Report



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 #: 92-09-180
Date: 10/07/92 09:06
Work ID: Techumseh 92513
Date Received: 09/15/92
Date Completed: 10/06/92
Client Code: FOX_ENVIRO

SAMPLE IDENTIFICATION

Sample		Sample	Sample		Sample
Number		Description	<u>Number</u>		Description
01	SB3ST	12-12.5	04	SB4ST	12-12.5
02	SB3ST	16-16.5	05	OTIE	
03	SB4ST	8-8.5	06	OT2W	

Laboratory ID Number (Wisconsin DNR): 241369260

Certified By Jeff Bushner Sample: 05A OTIE

Collected: 09/15/92

Test Description TRPH, Soil

Result Limit < 5.0

Units Analyzed By ppm 09/26/92 CEP

.KIII, BOII

Sample: 06A OT2W

Collected: 09/15/92

Test Description
TRPH, Soil

Result 21 <u>Limit</u>

Units Analyzed By ppm 09/26/92 CEP

Precision Analytical Laboratory 205 W. Galena Milwaukee, WI 53212 Phone: (414) 272-5222 Fax: (414) 272-6949	Project M Company Address: Phone: Project: Quote/Re	Ianager: : Fo SIS M (414) Te ference:	FOSTER S X Envivor 50 N Port Ilwanice 332-585° cramseh	JOHNSTON mental (Mushington e WI T Fax: ()	SERVICES Rel 53217		Pa	ain o	т Си о	stody f <u>l</u>	/	.cliffShoomuony
Property Owner: Property Address: Telephone Number:	NTAINERS	Water(1), Ground Water(2)	SANonhazardousFlammable	AMPLE HANDLING ReacWorl WeaInfec	tive k in Hood r Gloves	S	// / Y	m/m	/ / _Y /	*/	FILTERED (Y PRESERVED (I	CODE
Del'v: Hand Comm Ship Cont. OK? (Y) N N/A Rec'd Refrig,? (Y) N N/A Seals OK? (Y) N N/A Samples leaking? Y (N) N/A Comments:	AL NUMBER OF	MATRIX: Surface Water(Soil(3), Solid/Liquid W	Rush ** (Pleas Date Needed:	AS LAB NOTIFIED	(Y/N)	/				7/	Preservation Code A-None B-HN0 C-H2SO4 D-NA0 E-HCL F- M-MEOH REMARKS:	03 OH
LAB USE ONLY DATE TIME COMP 1.09/20- 9/15/92/0:20	GRAB E X S X S	- 3	SB3ST 12-12.5 SB3ST 16-16.5	Solvent tank Solvent tank Solvent tank	Boring # 3 Pering # 3	a a	2 2 2	s with be	ottles p	er test		
-4 9/15/92 1: 50 -5 9/15/92/10:30 -6 9/15/92/10:30 -7 9/15/92	X 2 X 2	3 3		Piping trench	Puring # 4		2	2				
1 413 77 6			27/	1						Pier	Dad per 7 9/17/92 SAM	
* Disposal charges listed in fee schedule	Retain for Other		Relinquished B Relinquished B Relinquished B	y (Signature)	Date / Time GIS GI Date / Time		3:3	35		Received I	By (Signature) By (Signature) For Laboratory By: (Signati	ire)