Site Assessment and Tank Closure Report

DCT 1 3 1992

Underground Storage Tank Removal at

Tecumseh Products Company 900 North Street Grafton, Wisconsin 53024

June 15-18, 1992

Prepared for:

Mr. John Mikyska Tecumseh Products Company

Prepared by:

E & K Hazardous Waste Services, Inc. 2905 Paine Avenue Sheboygan, WI 53082

October 9, 1992

E & K Project Number: 15292

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Elizabeth Stueck Project Assistant

William Fisher

William Fisher Project Manager

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EXECUTIVE SUMMARY

This report presents the results of E & K Hazardous Waste Services, Inc. activities on June 15-18, 1992, associated with the removal of the following underground storage tanks (USTs):

- 1. 11,000 gallon UST containing oil
- 2. 350 gallon UST containing kerosene
- 3. 350 gallon UST containing stoddard solvent

All tanks were located at 900 North Street, Grafton, Wisconsin. The site lies in the SW¹/₄ of the SE¹/₄ of Section 13, T 10 N, R 21 E in Ozaukee County. This property is owned and occupied by Tecumseh Products Company. The underground storage tanks were removed by E&K Hazardous Waste Services, Inc. personnel at the request of Mr. John Mikyska. Mr. Mikyska can be reached at (414) 377-2700.

E&K field personnel collected soil samples from all three tank locations during the activities that commenced on June 15-18, 1992. Thirteen soil samples and one groundwater sample was collected from the 11,000 gallon oil tank excavation. Four soil samples were collected from the kerosene tank excavation. Three soil samples were collected from the stoddard solvent tank excavation.

Results of laboratory analyses indicates that contamination exists in all three tank excavations at levels above current WDNR guidelines.

SCOPE OF WORK

E&K Hazardous Waste Services, Inc. supplied personnel and equipment to perform the following services:

- Provide a Department of Industry, Labor and Human Relations Certified Remover/Cleaner and Site Assessor.
- Excavate and remove a 11,000 gallon UST and two 350 gallon USTs and associated piping.
- Pump, vent, clean and dipsose of the underground storage tanks.
- Collect soil samples that are representative of the site as per Department of Industry, Labor, and Human Relations (DILHR) guidelines.
- Submit samples for WI-Modified Gasoline Range Organics (WI GRO), Total Recoverable Petroleum Hydrocarbons (TRPH), and WI Modified Diesel Range Organics (WI DRO) analysis to Precision Analytical Lab, Inc., a WDNR certified laboratory.

- Compile the necessary data to complete the site assessment and tank closure report for Mr. John Mikyska.

TOPOGRAPHY AND SOILS

The site where the three USTs were removed is located at 900 North Street, Grafton, Wisconsin.

The soils at this site are loamy land which consists of cut and filled areas that are mainly in and around urban areas in Ozaukee County. In cut or borrow areas, the original soil material has been removed by man and raw, fairly inert soil material is exposed. The banks of cut areas have been sloped and graded. As a result, the areas blend in with adjacent, relatively undisturbed soil areas. Loamy land ranges from sandy loam to silt loam in texture. The material remaining generally is loamy glacial till that cotains pockets of sand and gravel or of clayey material according to the United States Department of Agriculture Soil Conservation Service Soil Survey of Ozaukee County, issued September 1970.

FIELD ACTIVITIES FOR REMOVAL OF 11,000 GALLON OIL TANK

Field personnel were on-site June 15-16, 1992 to remove the 11,000 gallon oil tank. E & K's William Fisher was the Certified remover/cleaner and site assessor {Certification # 03914} on-site. Weather conditions at the time of the tank removal consisted of heavy overcast skies with an outside air temperature of 70° Fahrenheit and no precipitation. The location of the tank and the adjacent surroundings can be found in Appendices 1 and 2.

Photographs of all tank removal activities can be found in Appendix 3. The completed Department of Industry, Labor and Human Relations forms SBD-7437 can be found in Appendix 4. Appendix 5 has all completed Chain of Custodies and analytical results from all sampling can be found in Appendix 6.

The gravel overburden and 2 feet below grade of thick loam underlain by dark brown to black sandy clay 2¹/₂ feet below grade was removed to expose the top of the tank. See Appendix 2 for the Site Map. The backfill which consisted of mostly sand with some cobbles and gravel was removed. Reddish brown sandy clay to a depth of 4.5 feet below grade was removed within the excavation. All piping was removed to the substation where the piping was then capped with concrete. Visual inspection found the piping to be in good condition. The tank was removed and visual inspection also found the tank to be in good condition. Reddish brown sandy clay was observed to a depth of 17 feet below grade. Groundwater was encountered under the east and west ends of the tank at a depth of approximately 17 feet below grade. There was no sheen observed on the groundwater. No odor or visible staining was noticed.

The dimensions of the excavation was $21 \times 31 \times 17$ feet. Upon removal of the tank the concrete collar was still in place on two sides. The broken sections were returned to the excavation. The tank was cleaned and vented. Sludge from the tank cleaning was properly contained into one drum. Soil sample 9576 was collected at a depth of 15 feet below grade at the west end of the

tank excavation. Sample 9577 was collected at a depth of 12 feet below grade at the east side of the tank excavation. Soil sample 9578 was collected at a depth of 16 feet below grade west end of the tank. All samples were analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH). See Table 1 for analytical results.

The piping from the tank to the building was sampled every 20 feet on the return side and suction side. All soil samples were collected at a depth of $2\frac{1}{2}$ feet below grade and analyzed for TRPH. See Table 1 for analytical results.

Groundwater sample 9574 was collected at the west end of the tank excavation and analyzed for Polyaromatic Hydrocarbons (PAHs). The groundwater sample was preserved with 10 ml Hydrocloric acid. See Table 1 for analytical results.

SAMPLE ID	LOCATION	ANALYSIS PERFORMED	RESULTS PPM
9574	Groundwater from west end	TRPH	0.24
		PAHs	See Appendix
9576	West end @ 15' depth	TRPH	< 5.0
9577	Northeast corner @ 12' depth	TRPH	< 5.0
9578	West end @ 16' depth	TRPH	< 5.0
9596	Piping suction side, 20' mark @ 2 ¹ /2' depth	TRPH	320
9595	Piping return side, 20' mark @ 2 ¹ /2' depth	TRPH	15
9594	Piping suction side, 40' mark @ 2 ¹ /2' depth	TRPH	< 5.0
9593	Piping return side, 40' mark @ 2 ¹ /2' depth	TRPH	< 5.0
9592	Piping suction side, 60' mark @ 2 ¹ /2' depth	TRPH	< 5.0
9591	Piping return side, 60' mark @ 2 ¹ /2' depth	TRPH	< 5.0
9589	Piping suction side, 80' mark @ 21/2' depth	TRPH	< 5.0
9590	Piping return side, 80' mark @ 2 ¹ /2' depth	TRPH	< 5.0
9608	Suction pipe run at the east wall of building @ 2 ¹ /2' depth	TRPH	190
9609	Return pipe run at the east wall of building @ 2 ¹ /2' depth	TRPH	290

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Table 1Laboratory Results From 11,000 Gallon UST

FIELD ACTIVITIES FROM THE REMOVAL OF A 350 GALLON KEROSENE TANK

E&K field personnel were on-site June 15-16, 1992, to remove the 350 gallon kerosene tank. Weather conditions at the time of tank removal were overcast skies with an outside air temperature of 70° Farhenheit with no precipitation. William Fisher was E&K's DILHR certified remover/cleaner and site assessor {03914}.

Photographs of all tank removal activities can be found in Appendix 3. The completed Department of Industry, Labor and Human Relations forms SBD-7437 can be found in Appendix 4. Appendix 5 has all completed Chain of Custodies and analytical results from all sampling can be found in Appendix 6.

The concrete overburden was removed to a depth of 8 inches followed by the removal of fill material mixed with cobbles and gravel to a depth of $1\frac{1}{2}$ feet below grade. Approximate dimensions of the tank were 3 feet by 6 feet. Some soil staining was observed near the brick wall. Clay sand was observed at $1\frac{1}{2}$ feet below grade and removed to a depth of 7 feet below grade. A slight odor of kerosene was observed in the clay sand. Brown sandy clay was observed at 7 feet below grade and removed to a depth of $7\frac{1}{2}$ feet below grade with a strong odor of kerosene observed. No groundwater was encountered. All associated piping was removed and visual inspection found the piping to be in good condition. The tank was removed and visual inspection found the tank to be fair condition. Approximately 11 yards of soil was overexcavated and stockpiled on-site. The dimensions of the excavation were $5\frac{1}{2} \times 9 \times 7\frac{1}{2}$ feet.

The tank was cleaned, vented and transported to E&K's yard where the tank was cut for scrap. The stockpiled soil was placed on visqueen and covered with visqueen.

Soil sample 9597 was collected at the south end of the tank excavation at a depth of $6\frac{1}{2}$ feet below grade. Soil sample 9598 was collected at the west side of the tank excavation at a depth of 7 feet below grade. Soil sample 9599 was collected at the east side of the tank excavation at a depth of $5\frac{1}{2}$ feet below grade. Soil sample 9600 was collected at a depth of 6 feet below grade. All soil samples were analyzed for WI Modified Diesel Range Organics (WI DRO) at a WDNR certified laboratory. See results in Table 2.

The tank excavation was backfilled with 13 yards of clear stone and road gravel and brought to grade.

SAMPLE ID	LOCATION	ANALYSIS PERFORMED	RESULTS IN PPM
9597	South end bottom of tank excavation @ 6 ¹ /2' depth	WI DRO	32
9598	West side bottom of tank excavation @ 7' depth	WI DRO	450
9599	East side bottom of tank excavation @ 51/2' depth	WI DRO	8400
9600	North end bottom of tank excavation @ 6' depth	WI DRO	110

TABLE 2Laboratory Results of Samples Collected at Kerosene UST

FIELD ACTIVITIES FROM THE REMOVAL OF A 350 GALLON STODDARD SOLVENT TANK

E & K field personnel were on-site June 16-17, 1992, to remove the 350 gallon stodard solvent tank. Weather conditions at the time of tank removal consisted of heavy overcast skies with rain showers and an outside air temperature of 70° Farhenheit. William Fisher was E & K's certified remover/cleaner and site assessor on-site {Certification # 03914}.

Photographs of all tank removal activities can be found in Appendix 3. The completed Department of Industry, Labor and Human Relations forms SBD-7437 can be found in Appendix 4. Appendix 5 has all completed Chain of Custodies and analytical results from all sampling can be found in Appendix 6.

Sandy fill was removed to a depth of $1\frac{1}{2}$ feet below grade to expose the top of the tank. Excavation of the fill material continued to a depth of $4\frac{1}{2}$ feet below grade. Clayey sand with some gravel and cobbles was also removed. Groundwater was not encountered during tank removal. All associated piping was removed and visual inspection found the piping to be in poor condition. The tank was removed and visual inspection found the tank to be in poor condition. Two pit holes were observed in the top of the tank during cleaning. The tank was cleaned, vented and transported to E&K's yard where the tank was cut for scrap. Approximately 25 gallons of stoddard solvent was properly contained into one drum. Approximately 6 cubic yards of soil was removed and placed on visqueen.

Soil sample 9601 was collected from the north end of the tank excavation at a depth of 3¹/₂ feet below grade. Soil sample 9602 was collected from the south end of the tank excavation at a depth of 3¹/₂ feet below grade. Soil sample 9603 was collected at a depth of 2 feet below grade under the piping elbow at the west end of the tank excavation. All soil samples were sent to Precision Analytical Lab, Inc., a WDNR certified laboratory for WI Modified Gasoline Range Organics (WI GRO) analysis. See Table 3 for analytical results. The excavation was backfilled with 8 yards of gravel and brought to grade. The stockpiled soils were covered with visqueen and left on-site. The drum of stoddard solvent was left on-site.

Sample ID	Location	Analysis Performed	Results in PPM
9601	North end bottom of tank excavation @ 3 ¹ / ₂ ' depth	WI GRO	< 5.0
9602	South end bottom of tank excavation @ 3 ¹ / ₂ ' depth	WI GRO	11
9603	Under piping elbow, west end of tank excavation @ 2' depth	WI GRO	17

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TABLE 3Laboratory Results of Samples Collected from the 350 Gallon Stoddard Solvent UST

ANALYTICAL RESULTS

Analytical results and locations where samples were collected are shown in Tables one, two and three and Appendix two of this report. Laboratory results can be found in Appendix 6.

SOIL SAMPLING PROCEDURES

E&K Hazardous Waste Services, Inc. technicians followed DILHR soil sampling specifi-cations. All sampling was performed according to the WDNR LUST Analytical Guide. Soil samples collected for laboratory analysis from the Stoddard solvent tank area were collected using a thin tube sampler calibrated to collect 25 grams of soil. The soil was released into a 60 ml glass vial containing 25 ml of purge and trap grade methanol.

Soil samples from the kerosene tank area for laboratory analysis were collected using a thin tube sampler calibrated to 25 grams of soil. The soil was then placed into a 60 ml Teflon-capped glass vial.

Soil samples from the oil tank area were collected and tightly packed into 4 ounce Teflon-capped glass jars.

All samples were collected in native soils at the depths and locations noted. All samples were stored in a cooler packed with ice, then stored in E&K's refrigerator at 36° Fahrenheit prior to being shipped to Precision Analytical Lab, a WDNR certified laboratory, for analysis. Samples were handled in accordance with EPA protocol regarding chain-of-custody procedures. A copy of the chain-of-custody is included in Appendix 5. Locations where the laboratory samples were collected are noted on the site map in Appendix 2.

CONCLUSIONS

Based on laboratory analyses of the soil samples collected, we conclude that contamination exists at all three tank excavations at levels that exceed the WDNR standard of 10 ppm petroleum hydrocarbons, as per current WDNR guidelines.

RECOMMENDATIONS

E&K Hazardous Waste Services, Inc. recommends that a Remedial Investigation be undertaken at the Tecumseh Products Company property located at 900 North Street, Grafton, Wisconsin. The Remedial Investigation should be conducted with the objective of identifying the vertical and lateral extent of contamination in regards to the piping run of the 11,000 oil tank, the kerosene tank excavation and the stoddard solvent tank excavation. Following the investigative work, a Remedial Action Plan should be drafted and implemented. Appendix 1 Area Community Map Plat Map

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Appendix 2 Site Map

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Appendix 3

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Photographs of Tank Removal Activities





Description Uncovering 11K tank Date 06/15/92 Customer Tecumseh Products Photo # 2-3 Camera Setting auto Project #15292 Project Manager William Fisher



Description Tank and concrete collar prior to removal Date 06/15/92 Customer Tecumseh Products Photo # 4-5 Camera Setting auto Project #15292 Project Manager William Fisher





Description_11K_tank Date_06/15/92_Customer_Tecumseh Products Photo #_6-7_Camera Setting_auto Project #_15292_ Project Manager_William Fisher_



Description Excavation after tank removal Date 06/15/92 Customer Tecumseh Products Photo # 9-10 Camera Setting auto Project # 15292 Project Manager William Fisher



Description Excavation of 11K tank Date 06/15/92 Customer Tecumseh Products Photo # 11 Camera Setting auto Project # 15292 Project Manager William Fisher

Appendix 4

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DILHR Underground Petroleum Product Tank Inventory Form

SBD-7437

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:

Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707 Telephone (608) 267-5280

Underground tanks in V Please see the reverse si with at least 10 percent each tank. Send each co this tank by submitting	Visconsin that h de for additiona of its total volu ompleted form t a form? [X] YE	ave stored or co al information me (included p to the agency d S	urrently on this p iping) lo lesignat yes, are	store petroleur program. An ur poated below gr ted in the top rig you correcting/	m or reg ndergro round le ght corn updatin	ulated substance und storage tank vel. A separate er. Have you pr g information or	s must be registered. is defined as any tank form is needed for eviously registered hly?
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A. IDENTIFICATION: (Pleas 1. Tank Site Name Tecumsch Products	e Print) Company		Site Addı 900	ress North Stree	t		Site Telephone No. (414) 377-2700
□ City [Grafton	Village	Town of:		State WT		3024	Ozaukee
2. Owner Name (mail sent h Tecumsch Products	ere unless indicated Company	otherwise in #3 b	elow)	Owner Mailing Ad 900 North	dress (ma Street	il sent here unless inc	dicated otherwise in #3)
□ City □ Grafton	Village	Town of:		State W T	Zi	p Code 3024	County
3. Alternate Mailing Name I	fDifferent Than #2			Alternate Mailing	Street Ad	dress If Different From	m #2
City] Village	Town of:		State	Zi	p Code	County
4. Tank Age (date installed, Installed 1970	f known: or years o	old) 5. Tank Cap 11,000	acity (gall	ons) 6. Tank Ma UNKNOW	nufacture	er's Name (if known)	
 B. TYPE OF USER (check one) 1. Gas Station 5. X Industrial 9. Agricultural 	2. [] Bull 6. [] Gov 10. [] Oth	c Storage ernment er (specify):		3. 🗌 Utility 7. 🗌 School		4. [] 8. []	Mercantile Residential
C. TANK CONSTRUCTION: 1. Bare Steel 3. X Coated Steel 6. Relined - Date	2. Catl 4. Fibe 7. Stee	hodically Protected erglass el - Fiberglass Reinf	d and Coat	ted Steel (A. 🔲 Sac 5. stic Composite 9.	crificial Ar Othe Unkr	nodes or B. 🗌 Impre r (specify): nown	essed Current)
Approval: 1. Nat'l Std.	2. 🕅 UL 3. 🗆	Other:				Is Tank Double	Walled? Yes X No
Overfill Protection Provided?		t yes, identify type		monitoring 3 [Ground	Spill Containm	ent? Yes X No
tightness testing 5. Inte	erstitial monitoring	6. 🗌 Not requi	red at pre	sent 7. 🕅 Mar	nual Tank	Gauging (only for tai	nks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. [3] Bare Steel 2. [Cat 4. Fiberglass 5. 0t	hodically Protected her (specify):	and Coated or Wr	apped Ste	eel (A. 🗌 Sacrificial	Anodes o	or B. 🗌 Impressed Cu	urrent) 3. 🗌 Coated Steel 9. 🗌 Unknown
Piping System Type: 1. 🕅 Pre 3. 🗌 Suc	ssurized piping with tion piping with ch	h: A. 🗌 auto shuto eck valve at pump	off; B. 🗌 a and inspe	alarm; or C. [] flow ctable	restrictor	r 2. 🗌 Suction pipi	ing with check valve at tank
Piping leak detection method: 3.	used if pressurized g 4. 🗌 Ti	or check valve at ta ghtness testing	ank: 1. [5. [] Vapor monitoring] Line Leak Detecto	2. r 6.	Interstitial monito	oring
Approval: 1. 🗌 Nat'l Std	2. 💭 UL 3. 🗆] Other:				Double Walled:	Yes No
E. TANK CONTENTS 1. Diesel 5. Gasohol 9. Unknown 13. Chemical * * If # 13 is checked, indicate t	2. □ Lea 6. ☑ Oth 10. □ Prer 	ded er Oil nix 	he chemia	3. Unleaded 7. Empty 11. Waste Oil 14. Kerosene cal or waste.		4. [] 8. [] 12. [] 15. []	Fuel Oil Sand/Gravel/Slurry Propane Aviation
If Tank Closed, Give Date (mo/c 06/15/92	lay/yr):			Has a site assessme	ent been d	completed? (see rev ∑Yes □No	erse side for details)
If installation of a new tank is b 1.	eing reported, indi 2. 🔲 DILI	cate who perform IR	ed the ins	tallation inspection 3. Other (ide	: entify)		
Name of Owner or Operator (p	lease print):				Indicate	Whether:	
Tecumseh P	roducts					Downer or	Operator
Signature of Owner or Operato	hip ka'				Date Sig	ned: 5 - 17 - 97	Removed 6192
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information may cause you to fall under additional regulations.

Appendix 5

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Chain of Custody



CHAIN OF CUSTODY RECORD

2905 Paine Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-6030 Fax (414)452-7254

Ciler Proje Sam Sam	rt: oct No pling pler:): Site:	Tecumseh Power 15292 (AF) Stafton WI, 530 William Fisher	<u>24</u>	duc-				al Paques				L.S. Parl
Date	Time	Sample I.D.	Description	/		Ž	Z	\square		Source	e Sample Procedure	Compor Of Grab	Preservation Method
6/15	11:30	9574	Ground Nater from West end of ILK #0 Examination Same	X	χ				HOT battle	Clothya	Grab with one quart on end of pole	Genb	11:35 Put on ice Added 10 mi HC1
6/15	12:41	95%	Soil Samples, west End of Tank, #1+#2	V					402 2001	Native Clay snil	Grab from back hee bucket	Geb	Put on Ice 12:46
4/15	1:20	9577	Soil Samples, N.E. Corner of Tapk Samples #39#44						4 oz 2 ea,	Clay Soil	Grab from back hoe bucket	Grab	Put on Ice 1:25
4/15	2:30 2:30	9578	Soil Samples West End of fants sample # 5 + 0# 6	V			-		Hoz Zea	Sand backfill	Grab Snom back hae bucket	Grab	Put on Ice 2:35
6/15	4,40	9575	Oil From II K tap. Which was drummed	K		χ			1 × At Arbur bottles	Oil inside tank	Callowasa Ston drum	Collour	e Put on Ice 4:55

	Custody '	Transfers	
Relinquished by:	Date:	Time:	Received by:
1. Welliam Tusher	616-92	8:50 Au	drice Hinty_
2			V
3			

Emergency Contact #1-800-688-4005

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Additional Comments:

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William Fisher Troject Manager / Eak Hazardeus Waste Servicer (2412) 458 - 6 Technes end Products Company 900 North St., Graftan, WI 53024 Clipponnumber line Theory certify that received, property handled, and disposed of these samples as noted below: Tempersture of temperature of the samples was received on tee. If all of the ker was net of the mell may be substituted for a temperature blank. Field ID Date Time Received for Latorstory Try (Signature) Field ID Date Time Received for Latorstory Try (Signature) 95.74 6/15/12 11.30 95.74 6/15/12 11.30 95.74 6/15/12 11.30 95.74 6/15/12 11.30 95.74 6/15/12 11.30 95.74 6/15/12 11.30 95.74 6/15/21 11.30 95.74 6/15/21 11.30 95.74 6/15/21 11.30 95.74 6/15/21 12.00 95.74 6/15/21 12.00 95.74 12.00 5.00	de area code)
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4577 915/92 Print North east corner ct IKPH 1-402 9578 2.300 Soil back CN TCE West end below tank fill TRPH 1-402 9578 9578 15/92 Pm back CN TCE West end below tank fill TRPH 1-402 9578 15/92 Pm back CN TCE West end below tank fill TRPH 1-402 9578 15/92 Pm back CN TCE West end below tank fill TRPH 1-402 9578 15/92 Pm back CN TCE West end below tank fill TRPH 1-402 9578 15/92 Pm back CN TCE West end below tank fill TRPH 1-402 9579 Pm back CN TCE West end below tank fill TRPH 1-402 9579 Pm back CN TCE Soil Sample 16 Soil Sample 1 Specify groundwater, surface water, soil, leachate, sludge, etc. # Note ', Preserved with HCL Nete ', This form Sent Subsequent to Sample transport on 6- 2 Sample description must clearly correlat	
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DEPARTMENT USE/OPTIONAL FOR SOIL SAMPLERS DEPARTMENT USE ONLY Haposition of unused portion of sample	18-92,
Disposition of unused portion of sample	I CHE BUY ACTI
Asposition of anused bound of sumple	
Laboratory should: Split samples: Offered? Yes No (Check one)	
Dispose Retain for days Accepted? Yes No (Check one)	
Yeturn Other Accepted By:	·····

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CLIENT INFORMATION			P			Turnaro	und Time		
Name: Janico Bintz						X Norm	al		
Company: Det Degardous Maste Services,	lnc.								
Address: 2005 Paine Ave., P.O. Pox 1249	· · · · · · · · · · · · · · · · · · ·					Date N	eeded		
Eleboygan, WI 53082-1249						()	reapprova	il by Lab)	
Phone:414/458-6020									TO TO
P.O.# / Project#: 15202 / Locumsch Power Brod	ucts					(USe sepe	rate sheet	if necess	ary)
Quote/Reference#:							TT	ΓT	$\overline{1}$
Note: Terms and conditions printed on back apply.						Le le	¥		
Sample Type Sample Handling (Check all that apply) Nonhazardous Image: Constraint of the second	Refrigerate Work in Hood Wear Gloves	Prec 205 Milv Pho Fax	cision Ana W. Galen vaukee, W one: (414) : (414) 27	lytical Laboratory a (1 53212 272-5222 (2-6949	, Inc.	HEALING		No.	AR PREMICATION
LJ Other LAB U:	EONLY DATE	TIME	No. of Containers COMP GRAB	SAMPLE I	, R		/	ଁ / ମ ନ	EMARKS
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Ship Cont. OK? 父 N N/A	7 6/15/92	12・41 時		120576/Soil - Chet	Filmt Y				
Rec'd Refrig? (X) N N/A	7 chetro	1.000				╂━┼━┼╸┼			<u> </u>
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ESK HAZARDOUB WASTE SERVICES, INC. GENERAL HAULING, INC.

CHAIN OF CUSTODY RECORD

2905 Paine Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-6030 Fax (414)452-7254

Clier Proje	nt: ect No): 	Tecumseh 15292 (BF)		/	77	Anat	ytical Reque			Deal		
Sam Sam	ipling ipler:	Site:	Bard Stueck i	3:11 Fischer									
Date	Time	Sample I.D.	Description	A	¥ /				Source	e Sample Procedure	Compo Of Grab	Preserv	ation Method
6/16	8:45	9596	Piping run Suction - 20A mark	side X				д. 402	Pipeline	Grab	6	Ice 92	06210-1
6/16	1014	9595	Piping run return sic 20ft Mark	le X				2 402	P:peline	Gab	G	Fre	- 2
<i>(c116</i>	10:30	9594	Pipeing run suction 404 Mark	sde X				2 402	Pipeline	Gab	6	Ice	-3
6116	10:35	959 <u>3</u>	P. peing run returns 40'th Mark	side X				2 402	Pipeline	Gab	6	নিৰে	-4
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Additional Comments:

Relinguished by

Custody Transfers Received by: Date 1.42 61 1.15 H

TEK HAZARDOUS WASTE SERVICES, INC. GENERAL HAULING, INC.

CHAIN OF CUSTODY RECORD

2305 Palne Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-6030 Fax (414)452-7254

Clier Proje Sam Sam												
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Relinquished by: 1. Bay House CE 2. Microtity

Custody Transfers Time: 8 of Ar Received by: Date: V

Emergency Contact #1-800-688-4005

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Additional Comments:

EEK HAZARDOUS WASTE SERVICES, INC. GENERAL HAULING, INC.

CHAIN OF CUSTODY RECORD

2905 Palne Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-6030 Fax (414)452-7254

Cller Proje Sam Sam	nt: ect No pling pler:	•	Analytical Requested										9206223					
Date	Time	Sample I.D.	Description		/	Ŷ	Ŷ				10 - 30 L	Source	e Sample Procedure	Compo Of Grat	Pre	servation	Vethod]
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6/17	9:50 AM	9609	Soil under return run Lagainst, Wal	bipe (1) oth	χ						1 402	Pipe line	Gab	6	Ice	10:05	Am _	-2
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																	,	
F 1 2	leijnqujsh 2417. UUČC	ed by; Stealer Ajint	Custody Date: L. <u>4-18-92</u> L. <u>18-92</u>	Trans ^{Time} <u>8:45</u> <u>2:45</u>	fer :: Ph-	S	F fi	Peceiv <u>M</u> Č	ed b e =	y: Hu el	ity Let		Additio	Emer	gency Cont	act (#1-800 ts:)-688-4005	5

			unun Pa		Normality (Community)	110	Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarker Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemarkerster Statemark	101202020202020202020202020202020202020	m 4400-151	11-91	n na an	1000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1		17777777777777777777777777777777777777	
Note: This form is required by the Department of Natural Resources for Sample Collector(s) Boyd Stuck Property Owner						es (or le	leaking underground storage lank sites in compliance with ch. NR 500-540, N Tiile/Work Station/Company Field Supervisor/Eak Hazardous Waste Services,				VR 158 and NR 419, Wis. Adm. Code. Telephone Number (include area code)				
											$\left(414\right)$	(414) 458-6030			
							Property Address			Telephone	Number (in	clude area co	de)		
lecum	seh l	Preduc	+ 5	Com	bary		400 North	$S_{f, G}$	atton, WI	55024	(414	377-	-2700		
I hereby certify that I received, properly handled, and disposed of the						ed of th	ese samples as noted below	·							
elinquished By (Signature) Unterlime						1.	Received by (Signifure)	Temperature of temperature blank:							
MAH, MHORS UT18-92 1.45/11~					<u>~~</u>	- MULCHIM	If samples were received on ice and there was ice remaining you may report the								
(clinguished By (Signature) Date/Time					N.	Received Hy (Signature)	temperature as "received on ice". If all of the ice was melted, the temperature								
Muc	HINT	1	<u></u>	8-4/	LISI	Pla	Saug STA	of the melt me	of the melt may be substituted for a temperature blank.						
Relinquished Ny (Signature) Date/Time							Received for Raboratory								
	· · · · · · · · · · · · · · · · · · ·	V				أستنبيهم	**					Sample (Condition	······	
Field ID Number	Date	Time Collected	San Type I	ipla Device	Preserv. Type		Location/Description (see footnote ²)	Analysis Type	Lab ID Number	No./Type of Containers	Cracked /Broken	Improperly Scaled	Oood Condition	Other Comments	
	6/ 1	01.00			ON TCC	Sail	under curting a	TRPH		1 - 407					
9608	717/92	9,50	Soil		10:05	21/24	H. dopth against wall of 1	plda							
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¹ Specify gro	oundwater, s	urface wate	r, soll, l	eschale,	sludge, etc.		line location						,		
-Sample del		ADTADAT				AMDI		r		DEPARTMENT	USE ONLY				
Disservition of	DCP	dian of sam		TIONAL	TORSOIDS					DEFAMILIT	0360061				
Laboratory should:						Split samples: Offered?		dî 🗌 Yes	🔲 No	(Check one)				
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Appendix 6

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Laboratory Results

15292 (BF) 7-2-42

Precision Analytical Lab, Inc 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

E & K Hazardous Waste Service 2905 Paine Ave. Sheboygan, WI 53082 Order #: 92-06-195 Date: 06/30/92 17:21 Work ID: 15292 Date Received: 06/16/92 Date Completed: 06/30/92 Client Code: E_K_HAZARD

Attn: Janice Hintz Invoice Number:

2

SAMPLE IDENTIFICATION

Sample		Sample	Sample	Sample				
Number	_	Description	Number		Description			
01	EK	9574	03	EK	9577			
02	ΕK	9576	04	EK	9578			

Laboratory ID Number (Wisconsin DNR): 241369260

ed By

Jeff Bushner
Order # 92-06-195 06/30/92 17:21 Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE

Sample: 01A EK 9574

Collected: 06/15/92

Test Description	<u>Result</u>	Limit	<u>Units</u>	Analyzed	By
PAH Water, Method 8270					
Acenaphthene	< 10		ug/l	06/22/92	QAL
Acenaphthylene	< 10		ug/l	06/22/92	QAL
Anthracene	< 6.6		ug/l	06/22/92	QAL
Benzo(a)anthracene	< .10		ug/l	06/22/92	QAL
Benzo(b)fluoranthene	< .18		ug/l	06/22/92	QAL
Benzo(k)fluoranthene	< .17		ug/l	06/22/92	QAL
Benzo(g,h,i)perylene	< .76		ug/l	06/22/92	QAL
Benzo(a)pyrene	< .20		ug/l	06/22/92	QAL
Chrysene	< 1.5		ug/l	06/22/92	QAL
Dibenz(a,h)anthracene	< .30		ug/l	06/22/92	QAL
Fluoranthene	< 2.0		ug/l	06/22/92	QAL
Fluorene	< 2.0		ug/l	06/22/92	QAL
Indeno(1,2,3-cd)pyrene	< .4		ug/l	06/22/92	QAL
Naphthalene	< 10		ug/l	06/22/92	QAL
Phenanthrene	< 6.0		ug/l	06/22/92	QAL
Pyrene	< 2.7		ug/l	06/22/92	QAL
TRPH, Water	0.24		ppm	06/23/92	CEP
Sample: 02A EK 9576	Coll	ected: 06/15/92			
Test Description	Result	Limit	<u>Units</u>	Analyzed	By
TRPH, Soil	< 5.0		ppm	06/22/92	CEP
Sample: 03A EK 9577	Coll	ected: 06/15/92			
<u>Test Description</u> TRPH, Soil	<u>Result</u> < 5.0	Limit	<u>Units</u> ppm	<u>Analyzed</u> 06/22/92	<u>By</u> CEP
Sample: 04A EK 9578	Coll	ected: 06/15/92			
Test Description	Result	Limit	Units	Analyzed	By CFP
	- 2.0		բբա	00/22/32	CEF

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stania seguinterina

Order # 92-06-195 06/30/92 17:21

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 TRPH were analyzed by Modified EPA Method 9073.

All analysis as per approved methods found in one or more of the following:

Standard Methods for the Evaluation of Water and Wastewater, 16th Edition.

Methods for Chemical Analysis for Water and Wastes, Revised March 1983, EPA 600/4-79-020

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition 1986 EPA SW846

Analysis performed or certified by Precision Analytical Labs

The samples ordered for PAH were analyzed according to Method 8310 (SW 846 Test Methods for Evaluating Solid Waste - Physical/ Chemical Methods)

15292(BF) 6-26-92

Precision Analytical Lab, Inc 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

E & K Hazardous Waste Service 2905 Paine Ave. Sheboygan, WI 53082

Attn: Janice Hintz Invoice Number:

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Order **#**: 92-06-210 Date: 06/23/92 14:50 Work ID: 15292 Date Received: 06/17/92 Date Completed: 06/23/92 Client Code: E_K_HAZARD

SAMPLE IDENTIFICATION

Sample		Sample	Sample		Sample
Number	-	Description	Number		Description
01	EK	9596	04	ΕK	9593
02	EK	9595	05	ΕK	9592
03	EK	9594	06	ΕK	9591

Laboratory ID Number (Wisconsin DNR): 241369260

èd) By

Jeff Bushner

Order # 92-06-210 06/23/92 14:50

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Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE Page 2

Collected: 06/16/92 Sample: 01A EK 9596 Units Analyzed By Test Description <u>Result</u> Limit TRPH, Soil 320 ppm 06/22/92 CEP Sample: 02A EK 9595 Collected: 06/16/92 Limit Result Test Description Units Analyzed By TRPH, Soil 15 ppm 06/22/92 CEP Sample: 03A EK 9594 Collected: 06/16/92 Test Description <u>Result</u> Limit Units Analyzed By < 5.0 TRPH, Soil ppm 06/22/92 CEP Sample: 04A EK 9593 Collected: 06/16/92 Test Description <u>Result</u> <u>Limit</u> Units Analyzed By TRPH, Soil < 5.0 ppm 06/22/92 CEP Collected: 06/16/92 Sample: 05A EK 9592 Test Description <u>Result</u> <u>Limit</u> Units Analyzed By < 5.0 ppm 06/22/92 CEP TRPH, Soil Sample: 06A EK 9591 Collected: 06/16/92 Test Description <u>Result</u> <u>Limit</u> Units Analyzed By < 5.0 TRPH, Soil ppm 06/22/92 CEP

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 TRPH were analyzed by Modified EPA Method 9073.

15292 (BF) 6.26.92

Precision Analytical Lab, Inc 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

E & K Hazardous Waste Service 2905 Paine Ave. Sheboygan, WI 53082

Attn: Janice Hintz Invoice Number: 4349

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Order **#**: 92-06-211 Date: 06/24/92 16:42 Work ID: 15292 Date Received: 06/17/92 Date Completed: 06/23/92 Client Code: E_K_HAZARD

SAMPLE IDENTIFICATION

Sample	Sample	Sample	Sample
Number	Description	Number	Description
01	EK 9589	02	EK 9590

Laboratory ID Number (Wisconsin DNR): 241369260

Alled By

Jeff Bushner

Order # 92-06-211 06/24/92 16:42

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Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE

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Page 2

Sample:	01A	EK	9589
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Collected: 06/16/92

<u>Test Description</u>	<u>Result</u> <u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TRPH, Soil	< 5.0	ppm	06/22/92	CEP
Sample: 02A EK 9590	Collected: 06/16/92			
Test Description	<u>Result</u> <u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TRPH, Soil	< 5.0	ppm	06/22/92	CEP

Order # 92-06-211 06/24/92 16:42

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Precision Analytical Lab, Inc REPORT COMMENTS

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 TRPH were analyzed by Modified EPA Method 9073.

15242 (BF) 6.24.92

Precision Analytical Lab, Inc 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

E & K Hazardous Waste Service 2905 Paine Ave. Sheboygan, WI 53082

Attn: Janice Hintz Invoice Number: Order #: 92-06-223 Date: 06/23/92 14:54 Work ID: 15292 Tecumseh Date Received: 06/18/92 Date Completed: 06/23/92 Client Code: E_K_HAZARD

SAMPLE IDENTIFICATION

Sample	Sample	Sample	Sample
Number	Description	Number	Description
01	9608	02	9609

Laboratory ID Number (Wisconsin DNR): 241369260

ed By

Jeff Bushner

O_rder *#* 92-06-223 06/23/92 14:54

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Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE

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Sample: 01A 9608

Collected: 06/17/92

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<u>Test Description</u>	<u>Result Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TRPH, Soil	190	ppm	06/22/92	CEP
Sample: 02A 9609	Collected: 06/17/92			
Test Description	<u>Result</u> <u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
TRPH, Soil	290	ppm	06/22/92	CEP

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 TRPH were analyzed by Modified EPA Method 9073.

Appendix 1 Area Community Map Plat Map

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TION-R.21-22E



TECUMSEH PRODUCTS COMPANY



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Appendix 2 Site Map

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Appendix 3

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Photographs of Tank Removal Activities



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Description <u>Prior to excavation</u> Date 06/15/92 Customer <u>Tecumseh Products</u> Photo # 1-2 Camera Setting <u>auto</u> Project # 15292 Project Manager_William Fisher





Description Tank prior to removal Date 06/15/92 Customer Tecumseh Products Photo # 5-6 Camera Setting auto Project #15292 Project Manager William Fisher



Description Removed tank and excavation Date 06/15/92 Customer Tecumseh Products Photo # 7-8 Camera Setting auto Project # 15292 Project Manager William Fisher

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Description Removed soil and excavation Date 06/15/92 Customer Tecumseh Products Photo # 9-10 Camera Setting auto Project # 15292 Project Manager William Fisher



Description Compacting backfilled excavation Date 06/15/92 Customer Tecumseh Products Photo # 11 Camera Setting auto Project # 15292 Project Manager William Fisher

Appendix 4

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DILHR Underground Petroleum Product Tank Inventory Form

SBD-7437

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:

Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707 Telephone (608) 267-5280

Underground tanks in Wisconsin that have Please see the reverse side for additional i with at least 10 percent of its total volume each tank. Send each completed form to this tank by submitting a form? X YES	e stored or currently nformation on this (included piping) le the agency designation NO If yes, are	y store petroleum o program. An unde ocated below grou ted in the top right you correcting/upo	er regulated substan erground storage ta nd level. A separat corner. Have you dating information	ces must be registered. nk is defined as any tank te form is needed for previously registered only? Yes X No
This registration applies to a tank that is (check one)	: Incode Tank Damawad		Fire Department	Providing Fire Coverage
1A. I In Use or 18. Newly Installed 4. A C	losed - Filled With	8. Changed Owner (Indicate new ov	vner where lank Loc	ated:
3. Abandoned No Product (empty) Ir	ert Material	below)	Grafton F	ire Department
or With Water 7. 🗌 O	ut of Service - Provide Da	ate:		•
A. IDENTIFICATION: (Please Print)	10-014			Cite Talachara Na
Tecumsch Products Company	900	North Street		(414) 377-2700
□ City	Town of:	State WI	Zip Code 53024	County Ozaukee
2. Owner Name (mail sent here unless indicated ot Tecumsch Products Company	herwise in #3 below)	Owner Mailing Addre 900 Norht St	ss (mail sent here unless treet	indicated otherwise in #3)
□ City	Town of:	State WI	Zip Code 53024	County Ozaukee
 Alternate Mailing Name If Different Than #2 		Alternate Mailing Stre	eet Address If Different F	rom #2
City Village	Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or years old) Installed 1970	5. Tank Capacity (gal	lons) 6. Tank Manuf	acturer's Name (if know	n)
B. TYPE OF USER (check one): 1. Gas Station 2. Bulk St 5. M Industrial 6. Govern 9. Agricultural 10. Other	orage ment specify):	3. 🗌 Utility 7. 🗌 School	4. 8.	Mercantile Residential
C. TANK CONSTRUCTION: 1. [X] Bare Steel 2. Cathod 3. Coated Steel 4. Fibergl 6. Relined - Date 7. Steel -	lically Protected and Coa ass Fiberglass Reinforced Pla	ted Steel (A. 🔲 Sacrifi 5. 🗌 Istic Composite 9. 🗌	cial Anodes or B. 🗌 Im Other (specify): Unknown	pressed Current)
Approval: 1. Nat'l Std. 2. UL 3. Ot	her: Unknown		Is Tank Dou	ble Walled? 🔲 Yes 🕅 No
Overfill Protection Provided? Yes X No If ye	s, identify type:		Spill Contain	nment? 🗌 Yes 🕅 No
tightness testing 5. Interstitial monitoring	5. O Not required at pre	esent 7. 🕅 Manual	Tank Gauging (only for	tanks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protected an 4. Fiberglass 5. Other (specify):	d Coated or Wrapped Ste	eel (A. 🗌 Sacrificial And	odes or B. 🗌 Impressed	Current) 3. 🗌 Coated Steel 9. 🗌 Unknown
Piping System Type: 1. Pressurized piping with: 3. Suction piping with check	A. 🗌 auto shutoff; B. 🗍 i valve at pump and inspe	alarm; or C. 🗌 flow res ectable	strictor 2. 🗌 Suction p	piping with check valve at tank
Piping leak detection method: used if pressurized or 3. Groundwater monitoring 4. Tight	heck valve at tank: 1. [ness testing 5. [] Vapor monitoring] Line Leak Detector	2. ☐ Interstitial mo 6. ☑ Not Required	nitoring
Approval: 1. Nat'l Std 2. UL 3. QO	ther: Unknown		Double Walled:	🗌 Yes 💢 No
E. TANK CONTENTS				
1. □ Diesel 2. □ Leaded 5. □ Gasobol 6. □ Other		3. Unleaded	4.	Fuel Oil Sand/Gravel/Slurry
9. Unknown 10. Premix		11. 🔲 Waste Oil	12.	Propane
13. Chemical *		14. 🔀 Kerosene	15.	Aviation
IT # 13 IS Checked, indicate the chemical name(s) of	number(s) of the chemi	cal or waste.		
If Tank Closed, Give Date (mo/day/yr): 06/15/92		Has a site assessment	been completed? (see r ∑Yes □No	everse side for details)
		1 •	~~~~~~	
1. Fire Department 2. DILHR	e who performed the ins	3. Other (identif	fy)	
Name of Owner or Operator (please print):		Inc	licate Whether:	
Tecumseh Produ	cts		Owner or	Operator
Signature of Owner or Operator:	la la	Da	6-17-9	57 AFMOVED 6192
SBD-7437 (R. 12/91) IMPORTANT: Cor info	nplete as many iten prmation may cause	ns on this form as p e you to fall under	oossible. Failure to additional regulation	provide sufficient

Appendix 5 Chain of Custody

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ESK HAZARDOUS WASTE SERVICES, INC. GENERAL HALLING, INC.

CHAIN OF CUSTODY RECORD

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2905 Palne Avenue P.O. Dox 1249 Sheboygan, WI 53092-1249 Phone (4111)450-6030 Fax (411)452-7254

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JAG HOLE

Clier Proje Sam Sam	nt: ect No pling pler:): Site:`	Tecumsch Powert 1529 Z (BF) 900 N, St., Graf William Fisher	hooluct= Hon, W	5 F / 0/	JU JU	Anal	yticel Reque	bete			
Date	Time	Sample I.D.	Description		XSĬ	×		5 . 3 . S	Source	e Sample Procedure	Compos Of Grab	Preservation Method
6/16/12	12.03	9597	Kercsiene tant OF South and bottom, dry W DRO- 42109, DRO- 421	D#1 +#1 × /				2×60ml 1×402	EXC back- hoe-	Cover Stain less	Grab	UN Ice 12:09 7206218-1
6/ 16/92	12/13	9598	Kerosene tonk DRC West side butten, dry DRO-42113, DRO-421	14 14 14 14 14	×			2×60×1 1×402	Exc. back- hoe	Corer	Grab	ON ICE 12:16 -2
6/16/92	12:22	9599	Recosence tank DR East side botton, dry DRO-42111, DRO-42	0473 wh#3XX 112	<			2×60;16 1×402	Exc. back- hoe	Corer	Grah	ON Ice 12:25 -3
16/92	12:34	9600	Kerosene tank, DROF Nuth End bottom, dry u DRO-42115, DRD 42	+4 ++4 116	\times			2×60ml 1×4«L	Exc. back- hoc	Corer	Grab	ON Ice 12:40 -4
			,									
												-

Custody Transfers									
Relinquished by:	Date:	Time:	Received by:						
1 Tuilliam Tusker	6-11.92	8.00 Am	SaniceHinty						
2- MAILLEHITTY	6-17-92	1:15A-	Richard Lesley						
· /			U						
3									

Emergency Contact #1-800-688-4005

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Additional Comments:

Appendix 6

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Laboratory Results

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Precision Analytical Lab, Inc 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

E & K Hazardous Waste Service 2905 Paine Ave. Sheboygan, WI 53082

Attn: Janice Hintz Invoice Number: Order #: 92-06-218 Date: 07/09/92 16:09 Work ID: 15292 Date Received: 06/17/92 Date Completed: 07/09/92 Client Code: E_K_HAZARD

r Service Constraints

SAMPLE IDENTIFICATION

Sample		Sample	Sample		Sample
Number	-	Description	Number	-	Description
01	ΕK	9597	05	EK	9601
02	ΕK	9598	06	EK	9602
03	ΕK	9599	07	ΕK	9603
04	ΕK	9600	08	EK	9604

Laboratory ID Number (Wisconsin DNR): 241369260

Certified By Jeff Bushner Order # 92-06-218 07/09/92 16:09

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Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE

Sample: 01A EN	59597	Collec	ted: 06/16/92			
Test Description Mod. DRO (WDNR)	<u>1</u>	<u>Result</u> 32	<u>Limit</u>	<u>Units</u> mg/kg	<u>Analyzed</u> 06/28/92	<u>By</u> Sel
Sample: 02A EX	59598	Collec	ted: 06/16/92			
Test Description Mod. DRO (WDNR)	<u>L</u>	<u>Result</u> 450	<u>Limit</u>	<u>Units</u> mg/kg	<u>Analyzed</u> 06/28/92	<u>By</u> Sel
Sample: 03A EK	59599	Collec	ted: 06/16/92			
Test Description Mod. DRO (WDNR)	L .	<u>Result</u> 8400	<u>Limit</u>	<u>Units</u> mg/kg	<u>Analyzed</u> 07/01/92	<u>By</u> Sel
Sample: 04A EK	9600	Collec	ted: 06/16/92			
Test Description Mod. DRO (WDNR)		<u>Result</u> 110	<u>Limit</u>	<u>Units</u> mg/kg	<u>Analyzed</u> 06/28/92	<u>By</u> SEL
Sample: 05A EK	9601	Collec	ted: 06/16/92			
Test Description Mod. GRO (WDNR)		Result < 5.0	<u>Limit</u>	<u>Units</u> mg/kg	<u>Analyzed</u> 06/25/92	<u>By</u> SEL
Sample: 06A EK	9602	Collec	ted: 06/16/92			
Test Description Mod. GRO (WDNR)		<u>Result</u> 11	Limit	<u>Units</u> mg/kg	<u>Analyzed</u> 06/25/92	<u>By</u> SEL
Sample: 07A EK	9603	Collec	ted: 06/16/92			
Test Description Mod. GRO (WDNR)		Result 17	<u>Limit</u>	<u>Units</u> mg/kg	<u>Analyzed</u> 06/25/92	<u>By</u> SEL
Sample: O8A EK	9604	Collec	ted: 06/16/92			
Test Description Mod. GRO (WDNR)		<u>Result</u> < 5.0	Limit	<u>Units</u> mg/kg	<u>Analyzed</u> 06/24/92	<u>By</u> SEL

Page 2

Order # 92-06-218 07/09/92 16:09 Precision Analytical Lab, Inc REPORT COMMENTS

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 DRO were analyzed by the Wisconsin DNR Modified DRO method.

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

Appendix 1 Area Community Map Plat Map





Appendix 2 Site Map

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Photographs of Tank Removal Activities





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Description Prior to excavation of Stoddard Solvent tank Date 06/17/92 Customer Tecumseh Products Photo # 1-2 Camera Setting auto Project # 15292 Project Manager William Fisher





Description Removing Stoddard Solvent tank Date 06/17/92 Customer Tecumseh Products Photo # 3-4 Camera Setting auto Project #15292 Project Manager William Fisher

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Description Excavation Date 06/17/92 Customer Tecumseh Products Photo # 5-6 Camera Setting auto Project #15292 Project Manager William Fisher



Description Removed tank and pit holes Date 06/17/92 Customer Tecumseh Products Photo # 7-8 Camera Setting auto Project # 15292 Project Manager William Fisher





Description Backfilled excavation Date 06/17/92 Customer Tecumseh Products Photo # 9-10 Camera Setting auto Project # 15292 Project Manager William Fisher

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DILHR Underground Petroleum Product Tank Inventory Form

SBD-7437

Wisconsin Department of Ir	ndustry
Labor and Human Relations	5

For Office Use Only:

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY Information Required By Sec. 102.142, Wis. Stats.

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707 Telephone (608) 267-5280

Tank ID #	Information Requir	red By Sec. 102.142, Wis	. Stats. Tele	phone (608) 267-5280
Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? YES NO If yes, are you correcting/updating information only? Yes No				
This registration applies to a tank that is (check	one):		Fire Department Pr	oviding Fire Coverage
1A. In Use or 1B. Newly Installed 4.	Closed - Tank Removed	8. Changed Ownership	Where Tank Locate	ed:
3. Abandoned No Product (empty)	Inert Material	below)		e Department
or With Water 7.	Out of Service - Provide D	ate:		•
A. IDENTIFICATION: (Please Print)			I	
1. Tank Site Name Tecumsch Products Company	Site Add 900 I	North Street		Site Telephone No. (414) 377-2700
☐ City	Town of:	State Z WI	ip Code 53024	County Ozaukee
2. Owner Name (mail sent here unless indicat Tecumsch Products Company	ed otherwise in #3 below)	Owner Mailing Address (ma 900 North Street	il sent here unless ind	dicated otherwise in #3)
Grafton	Town of:	State Z	p Code 53024	County Ozaukee
3. Alternate Mailing Name If Different Than	¥2	Alternate Mailing Street Ad	dress If Different Fro	m #2
City 🗌 Village	Town of:	State Zi	p Code	County
4. Tank Age (date installed, if known: or year Installed 1965	s old) 5. Tank Capacity (gal 350	Ions) 6. Tank Manufacture Unknown	er's Name (if known)	
B. TYPE OF USER (check one): 1. □ Gas Station 2. □ B 5. Ø Industrial 6. □ G	ulk Storage	3. 🔲 Utility 7. 🗔 School	4. 🗆	Mercantile
9. Agricultural 10. 0	ther (specify):	7. D Senoor		Nesidential
C. TANK CONSTRUCTION: 1. Gr Bare Steel 2. Cathodically Protected and Coated Steel (A. Sacrificial Anodes or B. Impressed Current) 3. Coated Steel 4. Fiberglass 5. Other (specify): 5. Other (specify):				
Approval: 1. Nat'l Std. 2. UL 3.	Cother: Unknown		is Tank Double	Walled? 🗌 Yes 🕅 No
Overfill Protection Provided? Yes X No	If yes, identify type:		Spill Containm	ent? 🗌 Yes 🕅 No
Tank leak detection method: 1. Automatic tightness testing 5. Interstitial monitorin	tank gauging 2. 🗌 Vapol 1g 6. 🗌 Not required at pre	r monitoring 3. 🗌 Ground esent 7. 🕅 Manual Tank	dwater monitoring Gauging (only for tai	4. Inventory control and nks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. Image: Bare Steel 2. Image: Cathodically Protects 4. Image: Fiberglass 5. Image: Other (specify):	ed and Coated or Wrapped Ste	eel (A. 🗌 Sacrificial Anodes o	or B. 🗌 Impressed Cu	urrent) 3. 🗌 Coated Steel 9. 🗌 Unknown
Piping System Type: 1. Pressurized piping w 3. Y Suction piping with a	ith: A. auto shutoff; B.	alarm; or C. [] flow restricto	r 2. 🗌 Suction pip	ing with check valve at tank
Piping leak detection method: used if pressurize 3. Groundwater monitoring 4.	ed or check valve at tank: 1. [Tightness testing 5. [Vapor monitoring2.Line Leak Detector6.	Interstitial monit	oring
Approval: 1. Nat'l Std 2. UL 3.	Other: Unknown		Double Walled:	Yes No
E. TANK CONTENTS			1	
1. Diesel 2. Le	aded	3. 🔲 Unleaded	4. 🗆	Fuel Oil
5. Gasonol 6. O 9. O Unknown 10. O Pr	ther	1. U Empty	8. []	Sand/Gravel/Slurry Pronane
13. X Chemical* Standard Solver	t	14. 🔲 Kerosene	15.	Aviation
* If # 13 is checked, indicate the chemical name	e(s) or number(s) of the chemi	cal or waste.		
If Tank Closed, Give Date (mo/day/yr):		Has a site assessment been o	completed? (see rev	erse side for details)
06/17/92			Yes No	
If installation of a new tank is being reported, in	dicate who performed the ins	tallation inspection:		
1. Fire Department 2. DILHR 3. Other (identify)				
Name of Owner or Operator (please print):		Indicate	Whether:	
Tecumseh Produ	cts		Downer or	Operator
Signature of Owner or Operator:	//	Date Sig	ned:	
John Miksk				
7 10 111 1	e e		6-17-92	

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Chain of Custody



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CHAIN OF CUSTODY RECORD

Power Products Analytical Requested Client: Tecumseh 15292 **Project No:** Sampling Site: Graften, WI. 900 North St 2 Bill Fisher Boyd Stueck Sampler: Ors n / Sample Source/ Composite Of Grab Sample Preservation Method Date Time Sample I.D. Description Procedure Stainless Steel 25 ml methano Stoddard Solvent tant 2×60 Exc. Grab 3:11 6/16/ tube sampler North End Bottom GRO# nu Pm 9601 Shovel X ONATH JAZ-BM GRO -0603, -0604, dry it # 1×402 (Corer' Steeldard Solvent tank South End Bottom GRO#2 2×60ml 25 ml méthano 3:21 Grab Exc. Corer 91002 Х 19:21 PM GRO-0601, -0602, dry wt; #2 Shevel 1×40L Stord and Solvent tank Under piping Elbour Wiside GRO-ULDS, -D606, dry wit#3 2×60ml 6/16/ 3:26 Corer Grab EXC 9603 X PM Х 192 1×402 shove

week's to a summer week



	Custody	Transfers		Emergency Contact #1-800-688-4005
Relinguished by:	Date:	Time:	Received by:	Additional Comments:
1. William Tulier	6-17.92	8:10/th	Savice Histy	
Miric Hutz	6:17-42	1:25Pl~	(richard Lesley	
			8	
3.				·

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Laboratory Results

Huy 10042 (bt) lecumsen Reid 7-13-92

Precision Analytical Lab, Inc 205 West Galena Milwaukee, WI 53212

Phone: (414) 272-5222

E & K Hazardous Waste Service 2905 Paine Ave. Sheboygan, WI 53082

Attn: Janice Hintz Invoice Number: Order #: 92-06-218 Date: 07/09/92 16:09 Work ID: 15292 Date Received: 06/17/92 Date Completed: 07/09/92 Client Code: E_K_HAZARD

SAMPLE IDENTIFICATION

Sample	Sample	Sample	Sample
Number	Description	Number	Description
01	EK 9597	05 E	K 9601
02	EK 9598	06 E	K 9602
03	EK 9599	07 E	K 9603
04	EK 9600	08 E	K 9604

Laboratory ID Number (Wisconsin DNR): 241369260

ied By

Jeff Bushner

Order # 92-06-218 07/09/92 16:09 Precision Analytical Lab, Inc TEST RESULTS BY SAMPLE

Collected: 06/16/92 Sample: 01A EK 9597 Test Description <u>Result</u> Limit Units Analyzed By 32 mg/kg 06/28/92 SEL Mod. DRO (WDNR) Collected: 06/16/92 Sample: 02A EK 9598 Units Analyzed By Test Description Result Limit Mod. DRO (WDNR) 450 mg/kg 06/28/92 SEL Collected: 06/16/92 Sample: 03A EK 9599 Test Description Result Limit Units Analyzed By Mod. DRO (WDNR) 8400 mg/kg 07/01/92 SEL Collected: 06/16/92 Sample: 04A EK 9600 Test Description Result Limit Units Analyzed By Mod. DRO (WDNR) 110 mg/kg 06/28/92 SEL Sample: 05A EK 9601 Collected: 06/16/92 Test Description Result Limit Units Analyzed By < 5.0 mg/kg 06/25/92 SEL Mod. GRO (WDNR) Sample: 06A EK 9602 Collected: 06/16/92 Units Analyzed By Test Description Result Limit Mod. GRO (WDNR) 11 mg/kg 06/25/92 SEL Sample: 07A Collected: 06/16/92 EK 9603 Test Description Result Limit Units Analyzed By Mod. GRO (WDNR) 17 mg/kg 06/25/92 SEL Collected: 06/16/92 Sample: 08A EK 9604 Units Analyzed By Test Description Result Limit Mod. GRO (WDNR) < 5.0 mg/kg 06/24/92 SEL

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 DRO were analyzed by the Wisconsin DNR Modified DRO method.

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