



Date: 1/14/98

300 Gallon Diesel Fuel Underground Storage Tank Closure Assessment

Waubeka Mill Inc. W4132 Mill Street Waubeka, Wisconsin

prepared for:

Ms. Jacquelyn M. Voeks
Waubeka Mill Inc.
W4132 Mill Street
Waubeka, Wisconsin 53021

prepared by:

Bruce Ten Haken, CHMM

Signature

Senior Project Manager

DILHR Certification Number 41751





300 GALLON DIESEL FUEL UNDERGROUND STORAGE TANK CLOSURE ASSESSMENT

PREPARED FOR:

WAUBEKA MILL INCORPORATED
W4132 MILL STREET
WAUBEKA, WI

A. SITE BACKGROUND INFORMATION

A 300 gallon diesel fuel Underground Storage Tank (UST) was closed in place on January 02, 1998, from Waubeka Mill Inc., W4132 Mill Street, Waubeka, Wisconsin ("the site"). The UST's ID # is 450900076, and is registered as storing leaded gasoline for industrial purposes. According to Jacquelyn Voeks, the owner of the Mill, the UST was last used for storing diesel fuel for industrial purposes (fueling the Mill's vehicles). The UST has not been used for a number of years.

The UST is located 2' from the east side of the Mill, next to a steep slope. The section of the Mill that the UST is next to is supported by steel beams attached to concrete piling/footings. Part of the Milwaukee River passes underneath this section. Over the years, the slope has been eroding, mainly from water running down Park Avenue. Removing the UST may increase the erosion and undermine the footings on the southeast side of the mill. Approval for the closure in place was obtained from Independent Inspections, Ltd. (IIL), the DILHR local program operator for this area.

Cardinal Environmental Inc. (Cardinal) was hired by the owner to close the UST. Mr. Roman Nespodzany from IIL was the on site inspector, Inspector Cert. #35245.

B. TANK ACTIVITIES AND EXCAVATION

Bruce Ten Haken (DILHR Cert. #41751) from Cardinal Environmental Inc., Sheboygan, Wisconsin, was the acting Cleaner/Remover and Site Assessor. Attachment III contains a diagram of the UST system. The UST was 3' D x 6'L (300 gal.). The fill and vent pipes were still in place. The pump had been removed prior to Cardinal's arrival. An excavator was used to expose the top portion of the UST so the top could be cut off.



C. TANK CLEANING AND DISPOSAL

A hole was cut in the top portion of the UST which was exposed by the excavator. There was 2" (5 gallons) of diesel fuel in the UST. The diesel fuel was transferred to a 5 gallon metal can. A small amount of sludge was also removed. The diesel fuel and sludge were taken back to Cardinal's Sheboygan location, and transferred to a 55 gallon drum of waste fuels. The drum was picked up on January 5, 1998, by Laidlaw Environmental Services, Inc., Pecatonica, IL. for proper disposal (fuels blending).

D. SURPLUS PRODUCT AND TANK SLUDGE MANAGEMENT

The diesel fuel and sludge removed from the UST were taken back to Cardinal and placed in a 55 gallon drum of waste fuels. The drum was picked up on January 5, 1998, by Laidlaw Environmental Services, Inc., for disposal. A copy of the manifest is in Attachment I.

E. SITE LOCATION AND LAYOUT MAP.

The property is located at W4132 Mill Street in the village of Waubeka, Wisconsin. The property is located in Ozaukee County, and is between Mill Street and the Milwaukee River. The property is located on the north side of the Mill Street and Park Avenue intersection. The mailing address for the site is Fredonia, WI. Site maps are located in Attachment III.

F. VISUAL INSPECTION

The weather conditions the day of the closure were as follows: temperature of 34°F; partly cloudy; wind from the west - southwest at 10 mph. The UST was located under gravel. Native soil was never encountered.

While uncovering the UST, it was observed that the soil under and around the dispenser location was stained and had a petroleum odor. After cleaning, the UST was inspected. There did not appear to be any holes in the UST. A hole was cut in the bottom for the collection of soil samples. The soil under the UST was stained and had a petroleum odor.

G. SOIL SAMPLING AND ANALYSIS

The soil 1 foot below the bottom of the UST was sampled for Diesel Range Organics (DRO) and Gasoline Range Organics (GRO). The sample location was given a Field ID# of WM-1. An En Chem "Encore" sampling tool was used to collect the DRO. The GRO sample was collected using a 2 ounce glass jar with a teflon lined lid. About 20 grams of soil was placed in the jar and preserved with methanol. The samples were placed on ice.





The samples were transported to En Chem Inc. of Green Bay, WI., WDNR Lab Certification #405132750, on January 5, 1998. En Chem analyzed the samples by the Wisconsin Modified DRO and GRO Methods. WM-1 had a DRO of 17 mg/kg, and a GRO of 350 mg/kg. The chain of custody and lab results can be found in Attachment IV.

H. SUPPORTING DOCUMENTATION

Copies of the tank inventory form, closure checklist, and other supporting documentation are provided in Attachment I. Site photographs are in Attachment II.

I. CONCLUSIONS AND RECOMMENDATIONS

While uncovering the UST, it was observed that the soil under and around the dispenser location was stained and had a petroleum odor. After cleaning, the UST was inspected. There did not appear to be any holes in the UST. A hole was cut in the bottom for the collection of soil samples. Since the UST was used to store gasoline before being used to store diesel fuel, the soil was analyzed for both DRO and GRO.

The soil under the UST was also stained and had a petroleum odor. The results of the DRO and GRO analyses were received on January 14, 1998. The DRO was 17 mg/kg, and the GRO was 350 mg/kg. The laboratory report states that the "Sample exhibits hydrocarbon pattern resembling gasoline". The Wisconsin Department of Natural Resources (WDNR) requires that UST sites with DRO/GRO results greater than 10 mg/kg be reported as suspected releases. Mr. Mike Farley from the WDNR was notified by Cardinal via fax of the suspected release on January 14, 1998. A copy of the release notification is in Attachment I. The WDNR will be notifying you in the form of a letter with the actions you will be required to take.



ATTACHMENT I

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Independent Inspections, Ltd.

Certified Construction Inspectors S30 W24670 Sunset Drive Waukesha, WI 53186

December 23, 1997

Mr. Bruce Ten Haken, CHMM 3303 Paine Avenue Sheboygan, WI 53081

Re: Closure-in-Place for Waubeka Mill Inc., W4132 Mill Street, Waubeka, WI

Dear Mr. Haken:

I do agree with you that a closure-in-place may be the most practical method in which to close the underground storage tank the above referenced address because of the following cited reason:

"The UST is located next to the Mill in steep slope and removing may cause the slope to erode faster and undermine the footings on the southeast side of the Mill."

Therefore, I am granting a "conditional" approval; however, the inspector will make the final decision at the time of the closure inspection.

The State certified remover/cleaner will need to mail or FAX (414-544-8291) an ILHR 10 Notification Record showing the date and time for the inspector to be on site to verify and sign the necessary paperwork. If you have any questions, please feel free to call the office at (800)422-5220.

Sincerely,

Ronald C. Habermann, Vice President

Co-Director Fire and Tank Services

INDEPENDENT INSPECTIONS, LTD.

c: File

RH/tls

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State of Wisconsin

WI Tank ID#: 4509000 76

UNDERGROUND PETROLEUM

PRODUCT TANK INVENTORY Information Required By Section 101.142, Wis. Stats. Send Completed Form To: Department of Commerce **ERS Division** Bureau of Storage Tank Regulation

P.O. Box 7969, Madison, WI 53707 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 (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the correcting/updating information only? ▼ Yes □ No Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)] This registration applies to a tank that is (check one): Fire Department providing fire 1A. In Use or 4. Closed - Tank Removed ☐ Ownership Change (Indicate coverage where tank is located: 1B. Newly Installed 6. Closed - Filled with Inert Materials new owner name in block 2) ☐ City Village ☐ Abandoned with Product 7. Out of Service - Provide Date: Abandoned No Product (empty) or with Water ☐ Town of **IDENTIFICATION (Please Print)** 1. Tank Site Name Site Address Site Telephone Number Village ☐ City Town of: State County 2. Tank Owner Name Mailing Address Telephone Number 414-69 City Town of: State Zip Code County 3. Previous Name Previous site address if different than #1 4. Tank Age (date installed, if known or years old) 5. Tank Capacity (gallons) |6. If more than one tank is located at facility, please provide tank # Orllen B. TYPE OF USER (check one) 1. Gas/Retail Sales 2. Bulk Storage 3. Utility 4. Mercantile/Commercial 5. [] industrial 6. Government 7. School ☐ Residential 9. Agricultural 10. Other (specify): 11. Tribal Nation 12. Federal Property ☐ Backup Generator TANK CONSTRUCTION (check one) 1. Bare Steel 2. Cathodically Protected & Coated Steel (Check one: A. Cathodical Anodes or B. Impressed Current) Coated Steel 4. Fiberglass 5. Other (specify): ☐ Lined - Date: ☐ Steel - Fiberglass Reinforced Plastic Composite 9. Unknown Approval: 1. Nat'l Std. 2. 🔲 UL 3. Cher: Is tank double walled? ☐ Yes **E** No Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type: Spill Containment? Yes DK No Tank leak detection method: 1. Automatic tank gauging ☐ Vapor monitoring
☐ Interstitial monitoring 3. Groundwater monitoring 4. Inventory control and tightness testing 5. 7. Manual tank gauging (only for tanks of 1,000 gallons or less) 8. Statistical Inventory Reconciliation (SIR) D. PIPING CONSTRUCTION 2.
Cathodically Protected & Coated Steel (Check one: A.
Sacrificial Anodes or B.
Impressed Current) 1. Bare Steel Coated Steel 4.

Fiberglass 5. Other (Specify): Unknown Vapor Recovery/Stage II CARB#: 4. Fiberglass 5. Other (specify): 6. T Flexible ☐ Operational - Provide Date (mo/day/yr): Piping System Type: 1. ☐ Pressurized piping with A. ☐ auto shutoff; B. ☐ alarm or C. ☐ flow restrictor 2. Suction piping with check valve at tank 3. Suction piping with check valve at pump and inspectable 4. Not needed if waste oil Piping leak detection method: used if pressurized or check valve at tank: 1.

Vapor monitoring Interstitial monitoring ☐ Groundwater monitoring Tightness testing 5. Line leak detector 6. Not required ☐ SIR Approval: 1. Nat'l Std. 2. 🔲 UL 3. ☐ Other; is pipe double walled? ☐ Yes M No TANK CONTENTS ☐ Leaded Diesel ☐ Unleaded 2. ☐ Fuel Oil 5. Gasohol Other (Specify): 8. ☐ Sand/Gravel/Slurry* 9. ☐ Unknown* 10. Premix ☐ Waste/Used Motor Oil t. _ 14. ☐ Kerosene 15. Aviation (Indicate chemical name and number) * If 7, 8, 9, or 13 is chosen, this tank is NOT PECFA eligible. 4 . 5 . If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): Has a site assessment been completed (see reverse side for details) 2 · D. No Owner or Operator Name (please print): Indicate whether: · M Owner or | Operator' Owner or Operator Signature:

MPORTANT: Failure to provide sufficient information may cause you to fall under additional regulations, and may delay PECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible.

Date Signed

4. 24.3

Wisconsin Department of Industry, Labor and Human Relations

CHECKLIST FOR UNDERGROUND TANK CLOSURE

Complete one form for each site closure.

The information you provide may be used by other government agency programs [Privacy Law, s. 15.04(1) (m)].

RETURN COMPLETED CHECKLIST TO Safety & Buildings Division Fire Prevention & Underground Storage Tank Section P. O. Box 7969, Madison, WI 53707

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* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s); 14-Kerosene; 15-Aviation.								
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Written notification was prov All local permits were obtain Check applicable box a B. TEMPORAFILY OUT Written inspector appro is effective until (provid 1. Product Removed a. Product lines drai b. All product remov c. All product remov c. All product lines at tf 4. Dispensers/pumps le 5. Vent lines left open. 6. Inventory form filed i C. CLOSURE BY REMO 1. Product from piping 2. Piping disconnected 3. All liquid and residue 4. All pump motors and 5. Fill pipes, gauge pipe NOTE: DROP TUBE THE USE OF AN ED 6. Vent lines left connect 7. Tank openings temp 8. Tank atmosphere rec	vided to the located before begind tright in response of SERVIC and of temporare date) med into tank (coved to bottom of ved to within 1", tank truck vapue islands of puefit in place but indicating temporary plugged duced to 10% of excavation after the control of the control	al agent 15 days in nning closure. Donse to all state of the container of suction line, OR of bottom or recovery fittings amps located elsewhorked and power of container of the container of th	and resulting liquic s, and vapor return where are removed disconnected. ion proof pumps of otherwise grounde ubmersible pumps THE TANK IS TO	r hand pumps. In the description of the description of the reserved of the res	emoved. DUGH	Remov Verifie	er insperior Ver Ver Insperior Ver Insperior Ver Insperior Ver Insperior Ins	N NA

	ſ			Walter Barry	10000
C.	C	LOSURE BY REMOVAL (continued)	Remover Verified	Inspector Verified	MA
•	11.	Tank labeled in 2" high letters after removal but before being moved from site. NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE:	Y N		
	12	FORMER CONTENTS; VAPOR STATE; VAPOR FREEING-FREATMENT: DATE.		June Irred	,
-	13.	Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site Inventory form filed by owner with Safety and Buildings Division indicating closure by removal			<u>.</u>
	1.4.	Site security is provided while the excavation is open.	HYHW		
		LOSURE IN PLACE			essente: ma
		NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.			
	1.	Product from piping drained into tank (or other container).			
	2. 3.	Piping disconnected from tank and removed. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	ØY □ N		
	4.	All pump motors and suction hoses bonded to tank or otherwise grounded.	DXY IN		L
	5.	Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE.	XY N		
	6.	Vent lines left connected until tanks purged.	N D VX		· [1]
	1.	Tank openings temporarily plugged so vapors exit through vent.	N 🗌 Y🛣		Ė
	9.	Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F. Tank properly cleaned to remove all sludge and residue.	N D V		[]
1	IU.	Solid mert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled	N N		F
1	11.	Vent line disconnected or removed.	NE AS	H	
ا ا	12.	Inventory form filed by owner with Safety and Buildings Division indicating closure in place	XY 🗆 N		
E.	C	LOSURE ASSESSMENTS	,		
	1	NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.			
	١.	Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.	rav\ □ vr	[] amm	(-1
	2.	Do points of obvious contamination exist?	NH 级		H
	J.	Are there strong odors in the soils?	N □ V [®] E [*]		d
	4. 5.	Was a field screening instrument used to pre-screen soil sample locations? Was a closure assessment omitted because of obvious contamination?	DY N		
					님
		Agency, office and person contacted:		L£1	<u></u>
		Contamination suspected because of: ☐ Odor ☐ Soil Staining ☐ Free Product ☐ Sheen On Groundwa	ater Field	Instrument 7	rest
F.	M	ETHOD OF ACHIEVING 10% LEVEL DESCRIPTION			
	Ц	Educator Or Diffused Air Blower Educior driven by compressed air bonded and dran tube left in alexander of the land of the lan			
		Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.	of 12 feet abo	ove ground.	
		Dry ice			
		Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed of	over the grea	itest possible	tank
	П	area. Dry ice evaporated before proceeding. Inert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHER		. 167	
		ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT	•) I BE
		Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank	opposite the	vent.	
	ĸ	Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing Tank atmosphere monitored for flammable or combustible vapor levels.	device grou	inded.	
	استيا	Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space	a monitored :	at hottom m	اططام
		and apper perior of tank. Readings of 10% of less of the lower flammable range (LEL) obtained be	fore removin	g tank from	iuuie
		ground.			
á.	NC	TE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW)	1,000	Organica College
١.	RE	MOVER/CLEANER INFORMATION			
	•	Bruce Tentaken 186 41751		16	200
	Re	1750	Costina Na	1/2/9	18
-		Remover Signature Remover Certif	ication No.	Date Signed	er manining
			* is		
,	<u>/</u> Ins	pector Name (print) Description Penny Reput Penny Pen		45	_
		1509 030 7C Signature 900-1/27-5270	nspector Cer	tification No	
•	FD	ID # For Location Where Inspection Performed Inspector Telephone Number	1/2/	<u>79</u>	

Wisconsin Department of Natural Resources



Notification of Petroleum Contamination from Underground Storage Tank System

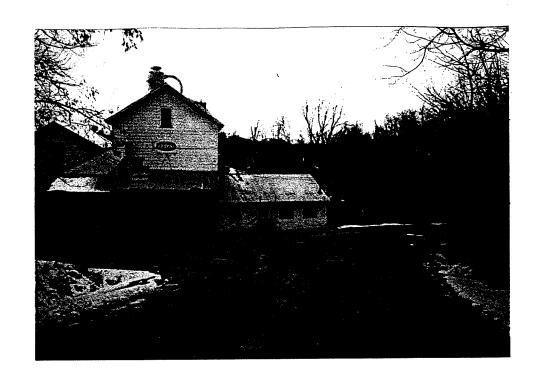
Please complete this form and FAX it to Giselle Red, LUST Program Assistant, Southeast District, Milwaukee, immediately upon discovery of a release from an UST system.

TC	FAX #: 414-229-0810
1.	Name, company, mailing address and phone number of person reporting the discharge: Bruce Ten Haken Cardinal Environmental Inc. 3303 Paine Avenue
2.	Sheboygan, WI 53081 920-459-2500 Site Information
	Name of site at which discharge occurred (local name of site/business - not responsible party name, unless a residence): Wanbeka Mill Inc.
	Location (actual street address, not PO box; if no street address, describe as precisely as possible, i.e., 4 mile NW of CTHs 60 & 123 on E side of CTH 60): W4/32 Mill Street, Wanbeka, Wisconsin
	Municipality (city, village, township in which the site is located - not mailing address): Would eka County:
,	County: Ozackee Legal Description:
3.	Responsible Party (RP) and/or RP Representative Information
	Company Name: Waubeka Mill Inc.
	Contact Person: Jacquelyn M. Voeks
	Mailing Address (with zip code): Telephone Number: W4132 Mill Street, Fredonia, WI, 53021
	(414) 692 - 9414 Identify tank size(s) and contents (list all that apply):
	Unleaded gasoline Fuel oil Leaded gasoline Waste oil Other

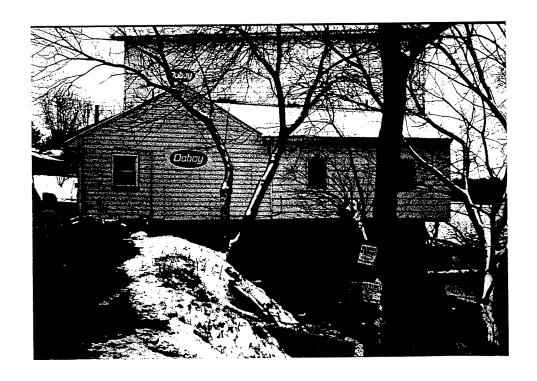
5.	Impacts to the environment:
	Fire/explosion threat Contaminated private wells (#of wells Contaminated public wells Contaminated public wells Groundwater contamination Soil contamination Surface water impacts Floating product Other
6.	Conformination was discovered as a result of:
	Tank closure assessment Site assessment (Other)
7.	Immediate actions being taken and the name of the contractor or other person performing the actions:
8.	Source, speed of movement, and destination or probable destination of the discharged hazardous substance:
9.	Local soil type and topography in the area of the discharge, depth to groundwater, and distance to surface water:
	Milwaukee River is located about 50 Seit away, down
10.	Weather conditions existing at the scene, including presence of precipitation, and wind direction and velocity:
l1.	Soil contaminant concentration of laboratory analytical samples (if known): DRO - i7 m/kg
	G-RO - 350 mg/kg
Addit	ional Comments:
	- The UST originally contained gasoline, but was
	- The UST originally contained gasoline, but was later used for dicsel fuel.
	- The UST was closed-in-place. Samples
	were collected through a hale cert in the
	bottom of the UST.
	- UST located on top of a steep slope that dogs to the Milweekee Rivers
	to the Milwackee River



ATTACHMENT II



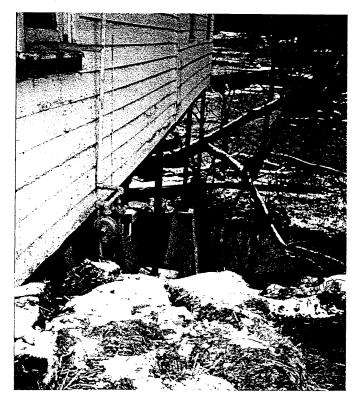
South Side (Front) of Waubeca Mill, looking down from Park Avenue.



East side of Waubeca Mill.



East side of Waubeca Mill. UST under bales. Vent pipe running up the south east corner of building at a slight angle.



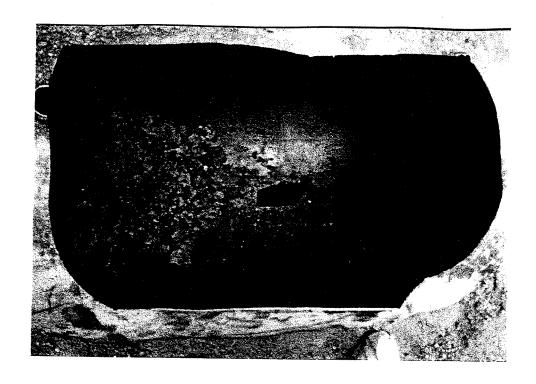
Looking North along east side of mill. The Milwaukee River is visible in the background.



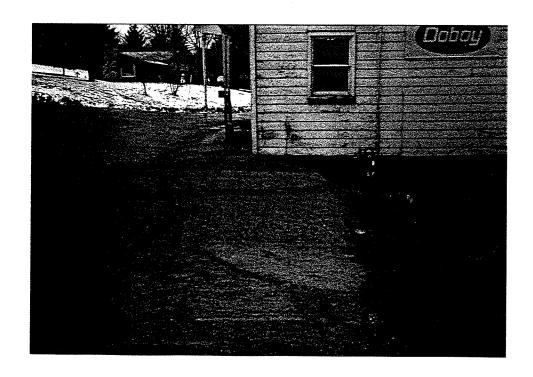
Waubeka Mill UST uncovered with top cut off.



Two inches of diesel fuel in UST.



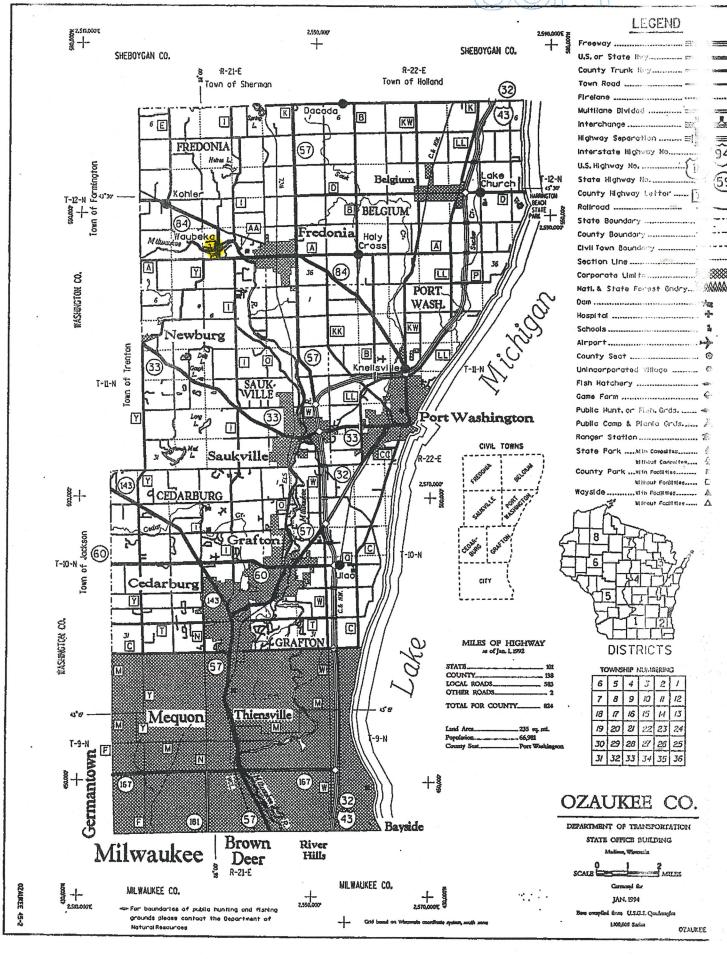
After UST was cleaned, a hole was cut in the bottom. Soil removed during soil sampling is on left side of hole.

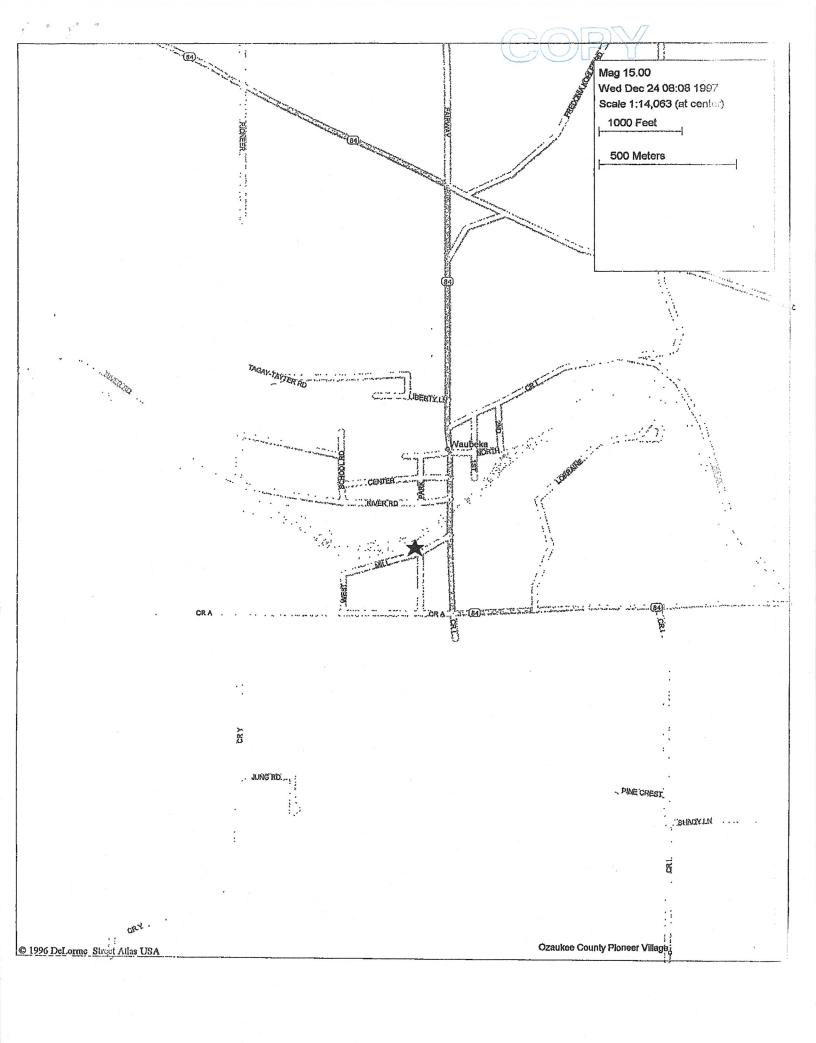


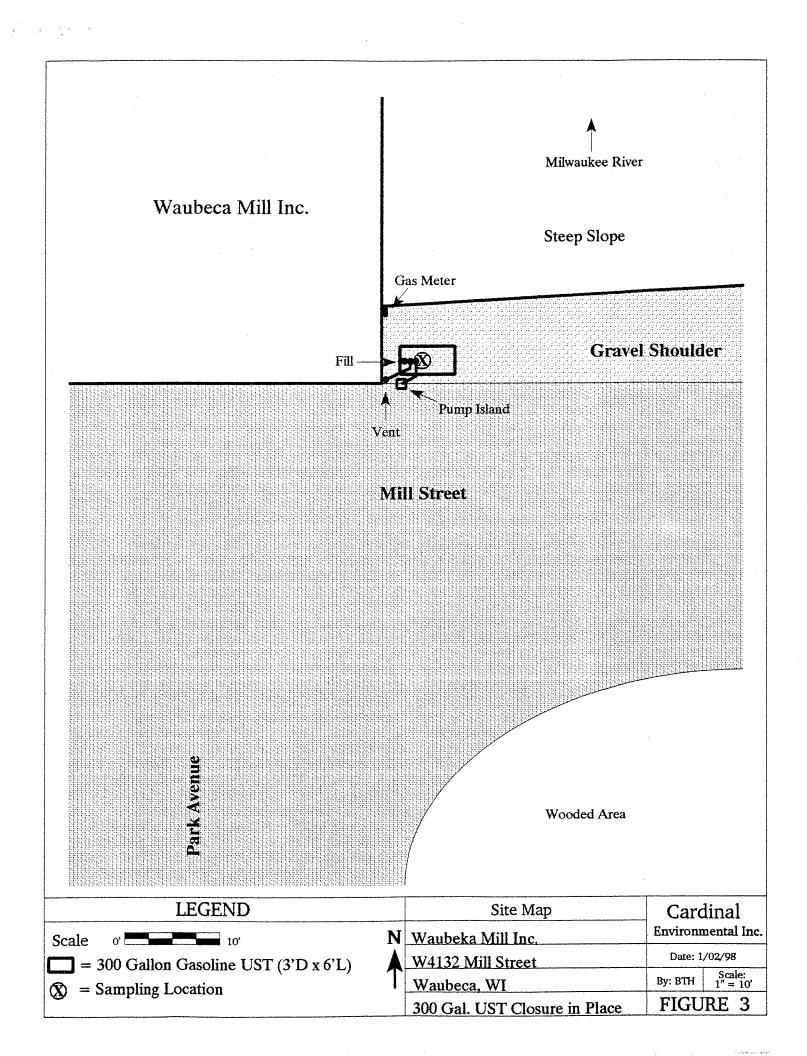
After sampling, the UST was filled in place with gravel. Excavation brought to grade.



ATTACHMENT III









ATTACHMENT IV

00

State of Wisconsin Department of Natural Resources EN CHEM

ety red (Eulon Eust program
Based on Form 4400-151 Rev. 4-93

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 198 and NR 419, Wis.Adm.Code. Personally identifiable information will be used for no other purpose.

the same of the sa		and the contrast of the contra						- State Manual Area						•	
Bruce Ten Haken							itle/Work Star	Vanagor / So	Ene.	Telephone Number (include area code) 920-459-2500					
Warbeka Mill Inc.						iu	Property Address 53021 W4132 Mill Street Waybeke WI					Telephone Number (include area code) 414 - 692 - 9414			
I hereby	certify that	I received,	property	y handi	ed and disp	osed of th	nese samples a	s noted below:			-1-1-1-1-1-1-1-1-1-1-1-1-1-1	ATORY USE ON			
Relinquished By	Toje dature	Bur	Date	Time 2/98	3:00	non.	Received By	(Signature)		If sample	is were reco	temperature ived on ice a	and there wa	2) s ice	
bet inputshed by	(Signature)	1	Date/		2/4		Received By	(Signature)	,	received temperati	ion ice. I we of the m	eport the ten fall of the elt may be si	ice was mel	ted, the	
Relinquished By	(\$ignature)		Date/	Time			Regulived for	-11 1 / 10	ure) 1445	- Zemperali	re blank Sam	te Condition			
Field ID Number	Date Collected	Time Collected	Type 1		,,	Field Screenin	g cocati	on/Description e footnote 2)	Analysis Type	ab ID Number	19/11/71	Cracked Impr /broken Seal	rop. Good Les Cond.	Other Comments	
WM-1	1/2/98	12:00	SOIL	Jar Wilder	Methoral ECE	OPOR	1 Foot	Below UST	GRE	001			IX.	Z)43	
WM-1	1/2/98	12:00,11.		Pa LOC	ICE	ODOR	1 Foot	Below UST	5						
						ŕ									
								1							
						,									
FOOTNOTES 1.	specify grou sample descr sampling loc	iption must	clearly	correl	ate the san	mple ID to	the	2. PVOC 6.	DRO PAH	10. pH	ee Liquids LP-Benzene		tocol D1-GRO		
QTA	#		En Cher	n Proje	ct# <u>880</u>	1022	2		Flashpoint Percent Soli			16. 8260	tocol D1-DRO }		
BILLING AD	ORESS:	ardinal	Envi Pair	renn	rentel	The.	erancia	Job Mane/Humber: Job Description:	100 (Final Control of Commission of the Control of the C) L UST	bubeka Closure	Mell in f	Place	
		heloy	441		T 5	308	_	r e ren felicen von 4	A CONTRACTOR OF THE STATE OF TH	operation of the state of the s	PORDYDANIEN ÖVRINGINGS (NIZAMIRKÖSTINIZAN	ngga ansaran anan kantanan da palak adalah sasa da pa	Digital and an incomment of the digital processing.	Minister version person a destina de la desta de la dela dela dela dela dela dela de	





1795 Industrial Drive Green Bay, WI 5430: 920-469-2430 800-7-ENCHE: Fax: 920-469-832

- Analytical Report -

Project Name: WAUBEKA MILL

Project Number: 772.01

Client: CARDINAL ENVIRONMENTAL

Report Date: 1/9/98

WI DNR LAB ID: 405132750

Sample No.

Field ID

Collection Date

Sample No.

Field ID

Collection Date

880022-001

WM-1

1/2/98

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

Anneoval Biometure

Date





1795 Industrial Driv Green Bay, WI 54809 920-469-2430 800-7-ENCHEM Fax: 920-469-8827

TestGroupID:

Comment:

880022-001

DRO-S

GRO-S-ME

Early peaks present outside of window of analysis.

Sample exhibits hydrocarbon pattern resembling gasoline. Early $\,$ and late peaks were present outside of window.





1795 Industrial Drive Green Bay, WI 54302 920-469-2430 800-7 ENCHEM

Fax: 920 - 69-8827

- Analytical Report -

Project Name: WAUBEKA MILL

Project Number: 772.01

Field ID: WM-1

Lab Sample Number: 880022-001

WI DNR LAB ID: 405132750

Client: CARDINAL ENVIRONMENTAL

Report Date: 1/8/98

Collection Date: 1/2/98

Matrix Type: SOIL

Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	84.2				%		1/6/98	SM2540G	SM2540G	PHS

Organic Results

Preservation Date: 1/6/98

DIESEL RANGE ORGANICS - SOIL Prep Method: Wi MOD DRO Prep Date: 1/7/98 Analyst: PHS **Analysis** Analysis Result Analyte LOD LOQ EQL Units Code Date Method DIESEL RANGE ORGANICS 17 3.8 mg/kg 1/7/98 WI MOD DRO Blank spike 89 50 %Recov 1/7/98 WI MOD DRO Blank spike duplicate 84 50 %Recov 1/7/98 WI MOD DRO Blank < 5.0 5.0 mg/kg 1/7/98 WI MOD DRO

Organic Results

GASOLINE RANGE ORGAN	Prep Met	hod: Wil	MOD.GRO	Prep Date:	1/6/98	Analyst: EGS		
Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Gasoline Range Organics	350			15	mg/kg	•	1/7/98	WDNR MOD GRO
Blank Spike	92			1.0	%Recov		1/7/98	WDNR MOD GRO
Blank Spike Duplicate	105			1.00	%Recov		1/7/98	WDNR MOD GRO
Blank	< 2.5			2.5	mg/kg		1/7/98	WDNR MOD GRO