

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters Solid Waste Office 1125 N. Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448 Telephone #: (414)492-5916 Telefax #: (414)492-5859

George E. Meyer, Secretary William R. Selbig, District Director

• October 4, 1994

HERESITE PROTECTIVE COATINGS GEOFFERY LIBAN 822 SOUTH 14TH STREET MANITOWOC, WI 54220

> RE: Case Closure - Heresite Protective Coatings, 822 S. 14th Street, Manitowoc. ERRP CASE #36-00426

Dear Mr. Liban:

The Department's Remedial Action Closure Review Panel has just completed a review of the above referenced case. This panel reviews environmental remediation cases for compliance with state laws, standards and guidelines to maintain consistency in the closeout of cases. After a careful review, the panel has decided to close this case.

At the present time, it appears that actions have been taken to the extent practical to restore the environment and minimize the harmful effects from this discharge to the air, lands, and waters of the state. The Department is requiring no further remedial action at this time. This case will appear as closed on the Emergency and Remedial Response Program's tracking system.

Please be aware, however, that this letter does not absolve the current, or any future owner of this property from future decisions regarding this site or impacts which may be discovered and/or traced back to past or future activities at this site.

Please be aware that this letter does not represent Department "certification" that any response actions taken at your property, such as site investigation, remedial action or case closure under the ch. NR 700 series, are "approved by the Department," as those terms are used in the "remediated property; purchaser liability" section of the hazardous substance discharge law, s. 144.765, Stats.

Those persons wishing to receive a Department-issued exemption from liability under s. 144.765, Stats., must obtain a separate approval outside those standard approvals granted to sites or facilities as part of the ch. NR 700 response process. Please contact Mark Giesfeldt at (608)267-7562 or Darsi Foss at (608)267-6713 to receive further information of this program. The Department advises persons to contact the Department and receive "pre-approval" for this program at the earliest possible point in the response process, such as before developing the site investigation workplan required by ch. NR 716.



The Department appreciates your efforts to protect and restore the environment at this site. If you have any questions regarding the content of this letter, please contact me at (414) 492-5921.

Sincerely,

Kristin Nell Hydrogeologist Emergency & Remedial Response Program

cc: James VandenBoom; JVB Engineering 1428 Silver Creek Road; P.O. Box 2095; Manitowoc, WI 54221-2095

CASE #. 36 - W426

CASE SUMMARY AND CLOSEOUT

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PROJECT MANAGER:	Dista.m				PRELIM. REVIEW	1. N
	System					TION COMPLETI
FIRM OR AGENCY:		~!`		×	DATE:	CLOSEOUT
DATE: Septen	nour al, H	44			ROUTE TO: -	EXCH
NAME OF SITE: Heres	no Protect	ive Casty	qo_			
LOCATION: 8225.	14th Street	cou	TY: Man	towoc	2310LL	
TYPE OF DISCHARGE: ERP	X LUST Oth	er				Sagener)
CONTAMINATION TYPE: (li	ist all compounds)	natured a	the	alcoh	ol	de CAMERA EST PARADA
and the second			0			
CONTAMINATION PRESENT	IN: Soil X Grou	undwater Othe				
I. <u>SOIL</u> :	a an ann an a		n Na sa			
Extent Defined: Y	es X No	N/A		e Serie Series	(TADMORTAL)	
Number of: Lab A	nalyses <u>3</u>		Field Analy	/ses	No Data	· ·
Methodology and/o	r Detection Devices:	thanal_		10 m		
	11				10-12-01 V-2008-00-00	
Total Number of Sa	ample Points: 3			uniter tri al 4		
PRE-REMEDIATION			· · · · · · · · · · · · · · · · · · ·		A.B.C.M.	POST-REMEDIA
Contaminant	Location	Concentration	Date	Concentration	Date	Applicable. Std
Contaminani	Locaton	Concentration	Daic	Concentration	Date	, in the second se
So train 1						1
See table 1						
See table 1						
See table 1						
					Decision	
REMEDIAL ACTION TAKE		abandanea		Jace.	Rassive	
				Jace. nurrete		
REMEDIAL ACTION TAKE						<u>ــــــــــــــــــــــــــــــــــــ</u>
REMEDIAL ACTION TAKE						
REMEDIAL ACTION TAKES	ion to cle					
REMEDIAL ACTION TAKE	ion to cle	anup		nurite	a soul	<u> </u>
REMEDIAL ACTION TAKE	ion to cle			nurite		
REMEDIAL ACTION TAKE	ion to cle	en up	entar	nunde	ad roll	
REMEDIAL ACTION TAKE	ion to cle	anup	entar	nunde	a soul	
REMEDIAL ACTION TAKE	ion to cle	en up	entar	nunde	ad roll	

:	II. <u>GROUNDWATER</u> : Groundwater encountered: Yes No Depth to Groundwater: 10-11.5
ي د	Groundwater impacted: Yes No Extent Defined: Yes No N/A
	Number of: Lab Analyses Field Analyses No Data
	Methodology and/or detection devices: <u>PUOC</u> , Ethanol
	GROUNDWATER MONITORING:
	# Excavation water samples: # Recovery Sumps:
	# NR 141 Monitoring Wells: # NR 141 Temporary Wells: # Prv. Water Supply Wells: # Municipal Wells:
	TOTAL # OF SAMPLE ROUNDS:
·	PRE-REMEDIATION POST-REMEDIATION
	Contaminant Location Concentration Date Concentration Date Applicable. Std
	none Seetable B
l	
Γ	REMEDIAL ACTION TAKEN: DOG OCOUNT, Stor Scon Ola ODU oct od
	REMEDIAL ACTION TAKEN. Dre groundwater sample collected.
ŀ	on order to determine. If a cute implated.
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1	and a state of the second s
E F	
	CLOSLIRE JUSTIFICATION Ground water dow mot appeared
	to be impacted
. [
	CASE SUMMARY: A denatured ethil alcohol tank abandoned in
••••	dare Soil runder indicated minimal amounts of
[contamination. Closed to committee suggested the
	Sampling of groundwater.
···	
C	Froundwater Remedial Action Completed: Yes K No N/A Has site been remediated to current standards? Yes No
I	his recommendation for case closure is based on all the available data as of this date 9-37-94 and submitted by
• ••••	Kusto nele of LOMK
	(Name)
-74	COMMITTEE RECOMMENDATION: REMEDIAL ACTION COMPLETED: YES NO
	FURTHER WORK NEEDED:
2	

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CASE # 36 - 426

CASE SUMMARY AND CLOSEOUT

PROJECT MANAGER: E. System	PRELIM. REVIEW	V:
FIRM OR AGENCY: WDWR		TION COMPLETED
DATE:	DATE: 4 ROUTE TO:	CLOSEOUT
NAME OF SITE: <u>herosita</u> <u>Protective Coatings</u> LOCATION: <u>822 5</u> . <u>14th</u> <u>Street</u> <u>Manitowoc</u> COUNTY: <u>Manitowoc</u> TYPE OF DISCHARGE: ERP <u>X</u> LUST Other CONTAMINATION TYPE: (list all compounds) <u>Ethy 1</u> <u>Alcohol</u>	URBEN _ ROSSBERG	Dewa
CONTAMINATION PRESENT IN: Soil Groundwater Other I. <u>SOIL</u> : Extent Defined: Yes No N/A Number of: Lab Analyses Field Analyses Methodology and/or Detection Devices:		_
Methodology and/of Detection Devices:		0440
Total Number of Sample Points:		POST-REMEDIATION
Contaminant Location Concentration Date Concentration	Date	Applicable. Std
See tuble #/		
REMEDIAL ACTION TAKEN: None taked. Tank closed in pr	hee.	
REMEDIAL ACTION TAKEN: None taked. Tank closed in pr	hee.	
REMEDIAL ACTION TAKEN: None taked. Tank closed in pr	hee.	
REMEDIAL ACTION TAKEN: None taked. Take Closed in pr	hee.	
	hee.	
REMEDIAL ACTION TAKEN: None taked. Tank closed in pro-	Aliokol	
	Allohol	<u></u>

Soil Remedial Action Completed: Yes ______ No _____

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This recommendation for case closure is based on all the available data as of this date $\frac{y - y - 9y}{2}$ and

submitted by Lorann Mayer WUNK (Firm or Agency)

	• 7		· / ·					· · · ·
II. <u>GROUNDWATER</u> :	Groundwater encou	ntered: Yes	No No	Depth	n to Groundwater:			
Groundwater impacted:	Yes No	Ex	tent Defined:	Yes	No	N/A _		
Number of: Lab Analyses	·	Field Analyses _	<u>99</u>	No Dat	ta			
Methodology and/or detect	tion devices:					•		
GROUNDWATER MONI	TORING:							
# NR 141 Moni	ater samples: toring Wells: upply Wells:	# NR 141	Temporary Well	ls:	k:			
TOTAL # OF S	AMPLE ROUNDS:							
PRE-REMEDIATION							1	POST-REMEDIATION
Contaminant	Location	Concentra	ation	Date	Concentration		Date	Applicable. Std
			x					
			I					
REMEDIAL ACTION TAKEN								
	6							
CLOSURE JUSTIFICATION:								
CASE SUMMARY:		-		-	_			
			Mar 1					
Groundwater Remedial Action Co								
This recommendation for case clo				7-7	79		and submitted	1 by
Roxanne Nelzz (Name)	<u>of</u>	WDIVK	2	(FIR	M OR AGENCY)		ti
				REMED	DIAL ACTION CO	OMPLE	FED: YES	NO
COMMITTEE RECOMMEND FURTHER WORK NEEDED: <u>luconfeven</u> , A Abanocueo Trink	Soil ma	no son a	e a Dunand LD			<i>"</i>	1	
	JULI HUL	knes nu	epinole.	SI/A	use of l	>10W	nowne	- being
		KAKS AU	epinole	BUA	USE OF G	row	nowne	- being

Revised:	11/93,	closfrm.hc
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Metropolitan Sewage District approved disposal at their facility on the condition that the waste be diluted 10 to 1 prior to delivery at the facility.

Analytical Results

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Analytical results for the samples are shown on Table 1. Sampling points are shown on the site map in Appendix 5.

	meresite i roteenve				7
Date Sampled	Sample Number	Description	Detection Limit	Conc. Detect.	
12-19-91	EK8742	Alcohol Std.	800 mg/l Ethnl	990,000 mg/1	
12-19-91	EK8739	Tank Contents Ethnl & Water	1000mg/l Ethnl TRPH	180,000 mg/1 97.0 mg/1	
12-19-91	EK8741	Field Blank	5.0 mg/l Ethnl	ND	
12-19-91	OFW	Trip Blank	5.0 mg/l Ethnl	ND	
01-07-92	EK8808	Soil-CTR	0.1mg/kg Ethnl	ND	what are
01-07-92	EK8809	Soil-W	0.8mg/kg Ethnl	72 mg/kg	nu hors
01-07-92	EK8810	Soil-E	0.5mg/kg Ethnl	12 mg/kg	Downbers Downbers for mis
01-07-92	EK8811	Tank Sludge	510mg/kg Ethnl	47,000 mg/kg	ď"
01-07-92	EK8811	Tank Sludge	Flash Point	>210 F	
01-16-92	EK8831	Alcohol/Water Diluted 10-1 (SN: EK8739)	200 mg/l Ethnl 5 ug/l Benzene 5 ug/l E. Benz 5 ug/l Toluene 15 ug/l Xylenes	17,000 mg/l ND ND ND ND	
01-16-92	EK8832	Field Blank	5.0 mg/l Ethnl	ND	

Table 1			
Analytical Results for Site			
Heresite Protective Coatings, Inc. Manitowoc, Wisconsin			

The results of the soil sample analysis, as shown on Table 1, indicate that there is denatured ethyl alcohol contamination in the soil at this tank site. Laboratory analysis report sheets are located in Appendix 6.

what are Ju

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Table B

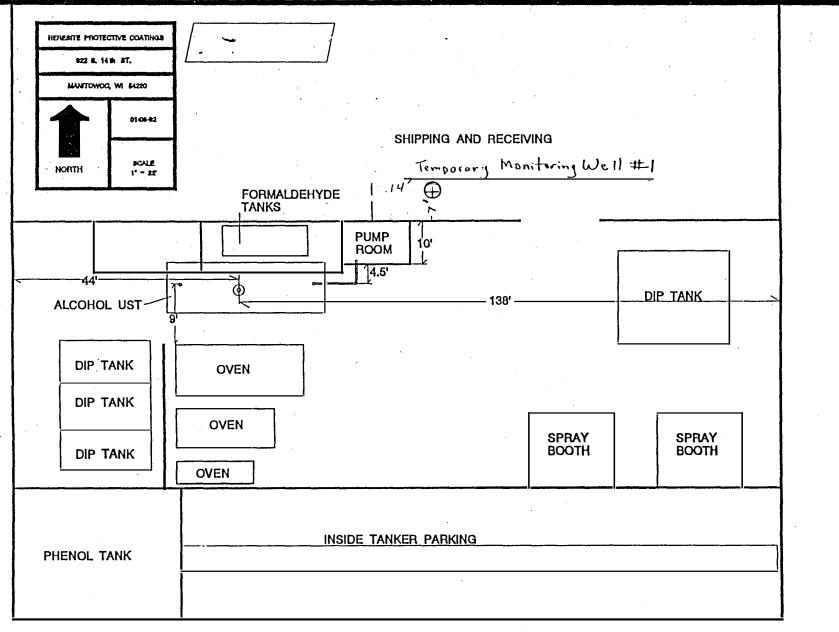
Analytical Results

Groundwater Sample

Temporary Monitoring Well #1

Substance	Results Micrograms/Liter	Detection Limit	Method
Benzene	<1*	1	SW 8020
Ethyl Benzene	<1	1	SW 8020
Toluene	4.0	1	SW 8020
0-Xylene	. <1	1	SW 8020
Psm-Xylenes	<1	1	SW 8020
Ethanol	<100	100	SW 80155

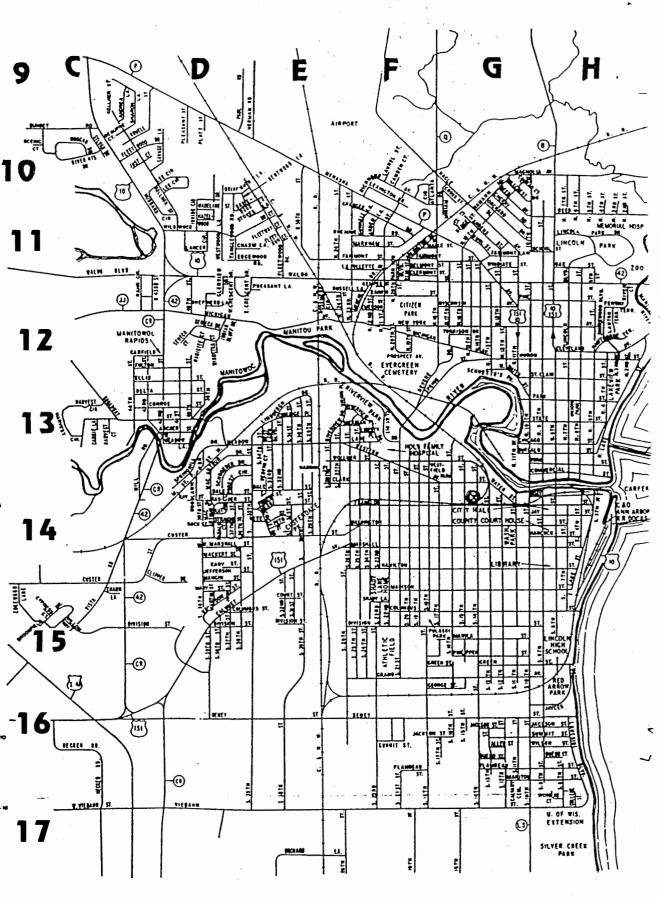
*Note: Detected Below Quantitation Limit



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COLUMN THE OWNER

STREET MOEX AMRENS CT. G 11 AMRENS ST. G 11 E ALBERT DR. JA ALLEN ST. G 18 ANDREALN. D-10 ARCHER ST. D-13 DENLN ARLINGTON ME. G 11 E ASH ME. 111 ATLANTA CH. F.10 ATLANTA CR. F.10 BA®WOOD LN. E.11 BEAUPRE CT. D.10 BELMONT ST. G.11 BENTWOOD LN. E.11 BERGE AVE. G.11 BERGE AVE. J.10 BRIANWOOD ST. E.11 BROADWE ST. D.12 DADWER ST. D 13 BUFFALD ST. H 13 CALUMET AVE. E.14 CAMOEN CT. F. 10 E CEDAR AVE . J. 10 CEDARMERE CT. J.9 CENTER ST. GIJ CENTENST, G-13 E CHARLESLN, J 9 CHARMEN C-15 CHASMEN, E-11 CHERNY RD, G-11 CHERNY RD, G-11 CHERNY RD, G-11 CHERCEDN, E-14 CLARST, F-14 CLARP AT NO. F-13 CLARP AT NO. F-13 CLEVELAND AVE. N-12 E CLEVELAND AVE. AT 12 CLEVELAND AVE. AT 12 CLEVELAND AVE. AT 12 COLLIGES 31, H-17 COLLIGES 31, H-17 COLLIGES 31, E-17 CONARC (LL ST. H-13 CL EMERSON ST. F.12 EMERSON ST. F.12 EXPO ST. C.16 MARCONT ST. F.11 FERME TEL, L12 FERMER J, ST. H.17 FLETINGTO, S. H.17 FLETINGTO, S. H.17 FLETINGTO, S. H.10-10 FLETINGTO, T. F.11 FLETINGTO, T. F.11 FLEET PUR CT. E.I FOREST CR. E-13 FRAMELINIST, F-14 FRONTAGE ROAD, D FULTON ST. D. 12 GALAX DR. J.10 TLD ST. 0-12 240 VEW LN. D-12 GLENVEW (M. D.)2 GRAND ART, D. 18, F. 11 GRAND (RT, D. 18, F. 11 GRAND (RT, B. 18 GRAND (RT, B. 18 GRAND (RT, G. 10) HALLE, TON ST, G. 14 HANCOCK ST. H 14 HARVEST CL. C. 13 44771 9000 DR . D-11



MANITOWOC

S. .. Isan

Deleted from SUST tracking

tank was abandoned in place (19,000 gal) when active contained denatured ethyl alcohol tank was a former railcar tanker installed undergraind in facility ~ 1930's

TISM RAYE S30

SWYE.

Sailo: Midalo: very fine sandy icam. D-2°6 slopes will drained soil when should of slog sand

tank walls conoded and slight seepage of groundwater into tank Lobserved during anandamment) Gapseal used to plug holes

denotived strip alcond in sail passue bidiemediation, matural microbial actuaty, E+K Hogardous waster Services sugges no justies action

July 27th letter inaccessability to tanks for justices testing (closure samples.)

Clopine committee : Sal appears acceptable because groundwates is encountered. * minumum of 1 monitoring well must be installed near abandiened tank

Gample for VOCS and ethanol

-> permanent monitoring well adapt to the total accorrectioned will affect plant efficiency propose a different method

Want to test only for ethand not full COV

Unly 22, work plan due



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters Solid Waste Office 1125 N. Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448 Telephone #: (414)492-5916 Telefax #: (414)492-5859

George E. Meyer, Secretary William R. Selbig, District Director

September 27, 1994

HERESITE PROTECTIVE COATINGS GEOFFERY LIBAN 822 SOUTH 14TH STREET MANITOWOC, WI 54220

> SUBJECT: Acknowledgement of Receipt/Request for Closure Review Heresite Protective Coatings, 822 S. 14th Street, Manitowoc WDNR ERRP CASE #36-00426

Dear Mr. Liban:

The Department received the above-referenced closure request on September 26, 1994.

Due to staffing levels and the backlog of non-emergency cases, requests for closure are logged and reviewed in the order they are received. After Department review of the case, you will be notified by letter that closure is either approved or that additional work is required.

Department staff will attempt to review your case within 90 days. If you have not received a response by then, please feel free to call me at (414) 492-5921 to inquire about the status of your request.

Sincerely,

Kestalnum

Kristin Nell Hydrogeologist Emergency & Remedial Response Program

cc: James VandenBoom; JVB Engineering 1428 Silver Creek Road; P.O. Box 2095; Manitowoc, WI 54221-2095



RECEIVEDJVB Engineering

SEP 2 6 1994

P.O. Box 2095 Manitowoc, WI 54220 414/683-3393

LMD SOLID WASTE

RECEIVED DNR. SEP 26 1994

September 16, 1994

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Ms. Kristin Nell Lake Michigan District Headquarters P. O. Box 10448 Green Bay, WI 54307-0448

Subject: Heresite Protective Coatings ERRP Case #36-00426

Dear Ms. Nell:

On August 13, 1994, a temporary monitoring well was installed inside the building at Heresite Protective Coatings by M & K Environmental Drilling. This well was located 7' north of the wall between the Coating Department and Shipping Department and 14' east of wall between Shipping Department and filing and grinding area. This location was selected for safety reasons so that the drill rig and the vehicle it was mounted on would not accidentally contact any overhead piping or electrical switch gear.

The depth of the well was 16'-9" below floor with an additional 1" of PVC pipe above the floor. The depth to groundwater was measured with a tape and was found to be 11'-6-1/2". A sample was taken immediately using a Norton polypropylene bailer with teflon ends. This sample was taken just in case a sample could not be obtained later. This sample was collected in two-ounce glass sample containers with plastic caps supplied by the analytical lab. They were acid preserved with HCl and put into a cooler with ice and freeze packs.

The temperature of the groundwater was measured with a glass thermometer and was found to be 19 degrees C. The well was developed by removing four well volumes of water. The water was only slightly turbid and reasonably clear in sample taken. Turbidity increased dramatically during bailing. This was probably due to fine soil particles carried into well by water flow. The water had no detectable odor.

Soil from the drilling was collected and placed into a 55-gallon drum with a plastic liner. This material is still on site. All groundwater removed from the well except for the samples was collected in a five-gallon phenolic lined steel pail and is currently stored on site.

On August 14, 1994, a second groundwater sample was taken with the

bailer. This sample had a very slight turbidity and was almost clear and also had no detectable odor. It was collected in twoounce glass sample containers supplied by CBC. Samples were filled completely so no air bubbles were in sample container and were acid preserved with HCl. They were then placed in cooler with ice and freeze packs for proper storage until conveyance to lab for analysis. The depth to groundwater was measured at 10'-8" and the groundwater temperature was found to be 19 degrees C.

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On August 15, 1994, the cooler with samples was transported to CBC in Oak Creek. The lab was instructed to analyze only the samples collected on August 14, 1994, for the necessary parameters.

Analyses on sample were completed on August 17, 1994, and August 25, 1994, by CBC. Copies of the analytical results and chain of custody form for the samples are attached.

The analytical results are summarized in the attached Table B. The groundwater quality standards that are applicable are summarized in Table A. As can be seen by comparing the two tables, the results for the groundwater sample are well below the standards and in fact, for the ethyl alcohol there is no listed standard.

The only ones even detected were a trace of benzene and 4 ppb of toluene. Benzene is not used on site and although toluene is, it is far more likely that these substances came from upstream groundwater flow from southwest of the site. There are a number of LUST sites, a number of gasoline stations and a number of former gasoline stations southwest of the site.

Based on the results of this testing, we would propose that:

- 1. The DNR formally close out the Case ERRP #36-00426.
- 2. Proper abandonment of the temporary monitoring well according to NR 141 standards take place.
- The groundwater collected from the well development be put down the sanitary sewer that flows to the Manitowoc Waste Treatment Plant.
- 4. The soil collected from the well installation be conveyed to their other plant and spread on bare ground at that site. (Most of present site under hard surface or grass lawn. Material is mostly clay soil and fill materials.)

Before proceeding on anything, we will wait to hear from you. If you have any questions or need more information, please contact me at 414-683-3393. Sincerely,

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Vam anden Boon

Mames VandenBoom, P.E. President

JV:sp

Enclosures: Table A Table B Chain of Custody Form Analytical Results Site & Well Location Maps

Table A

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Groundwater Quality Standards

Substance	NR 140 Table 1 Enforcement Standard (Microgram/Kilogram)	NR 140 Table 1 Preventive Action Limit (Microgram/Kilogram)
Benzene	5	0.5
Ethyl Benzene	700	140.0
Toluene	343	68.6
Xylene (Total)	620	124.0
Ethanol	Not Listed	Not Listed

Table B

Analytical Results

Groundwater Sample

Temporary Monitoring Well #1

Substance	Results Micrograms/Liter	Detection Limit	Method
Benzene	<1*	1	SW 8020
Ethyl Benzene	<1	1	SW 8020
Toluene	4.0	1	SW 8020
0-Xylene	<1	1	SW 8020
Psm-Xylenes	<1	1	SW 8020
Ethanol	<100	100	SW 8015 5

*Note: Detected Below Quantitation Limit

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SAMPLE RECEIPT ACKNOWLEDGEMENT

Received From:

Jim Vandenboom	FAX NO.	
JBV Engineering	Phone No.	414-683-3393
1428 Silver Creek Road		
Manitowoc WI 54220	Client Acct. No.	01010
	Client P. O. No.	PD CHECK # 792
Lab COC No. 12671		
Lab Project No. 09411806	Lab Project Mgr.	Joanne Larson
Lab ID No. Sample Description/Analytes		
94 0009055 GROUNDWATER/SET 2 08/15/94		
SW 8015S, SW 8020,		

COMMENTS

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01 Container Integrity: Meets Standard, Sample Integrity: Meets Standard

> Please Note Sample Information Please call immediately if there are any questions!

When inquiring about your project, please reference Lab COC No. or Project No.

Page 1 of ____

140 East Ryan Road, Oak Creek, WI 53154-4599 • 414-764-7005 • FAX 414-764-0486 • 1-800-422-2195 Client Services Direct Line 414-768-7460 • WI DNR Lab Certification #241283020



Date of Report:	08/31/94
Project Number:	09411806
Lab ID:	94-0009055
Account Number:	1010
Date Collected:	08/14/94 11:45
Collected By :	Client
Date Received:	08/15/94 13:10
C of C Number:	12671
Temperature:	Received on Ice.

Attention: Jim Vandenboom JBV Engineering 1428 Silver Creek Road Manitowoc WI 54220

Sample Desc: GROUNDWATER/SET 2

Co	ontainer	Integrity:	Meets	Standard,	Sample	Integrity:		tandard	
							Det.		Test
				Resu	lt	Unit	Limit	Procedure	Date
ORGANIC									
GC SOLVENT SC	AN								
Ethanol				<100		ug/l	100	SW 8015S	08/25/94
GC VOLATILES									
Benzene				<1.0	C	ug/l	1	SW 8020	08/17/94
Ethylbenzen	ie			<1		ug/l	1	SW 8020	08/17/94
o-Xylene				<1		ug/l	1	SW 8020	08/17/94
P,M-Xylenes	3			<1		ug/l	1	SW 8020	08/17/94
Toluene				4.0		ug/l	1 [.]	SW 8020	08/17/94
Ethanol r	esult is	s semi-quant	titativ	e.					

Please Contact Client Services with any questions. Water samples are disposed of 30 days after receipt; soil samples will be disposed of 6 weeks after receipt; waste samples (non-water, non-soil) will be returned 6 weeks after receipt. N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected. D = Detected below the Quantitation Limit. J = Estimated below the Quantitation Limit. Elevated Detection Limits : @ = Due to matrix interference. # = Due to sample concentration. \$ = Due to sample quantity. + = Due to extract volume.

> Reviewed and Approved by: **NIW** Wes Saferite

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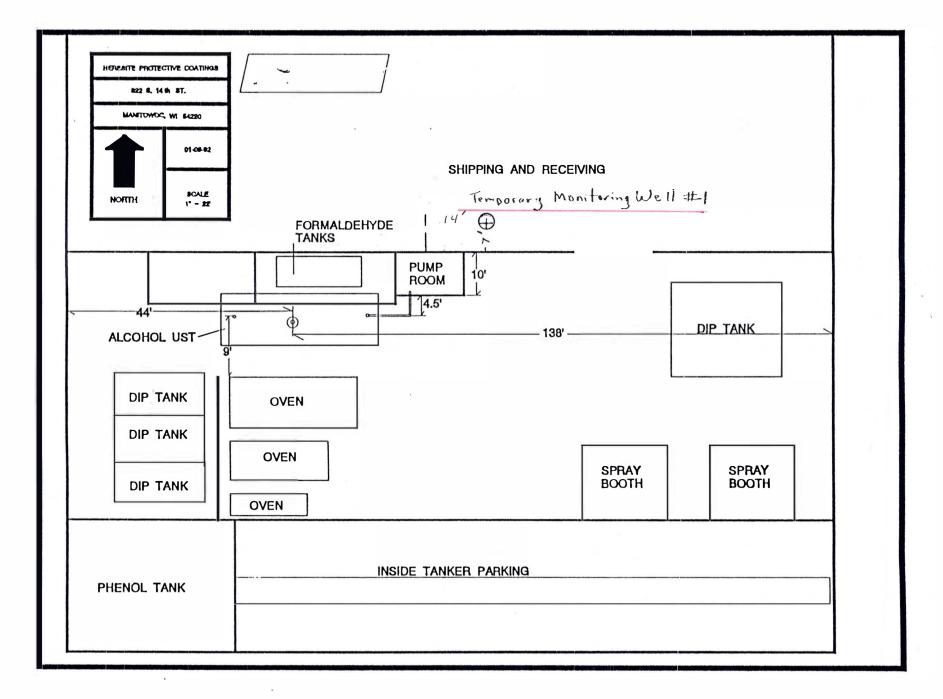
BK

Chain-of-Custody: 12671

THE PEOPLE WE SERVE . . CARE ABOUT THE ENVIRONMENT ;

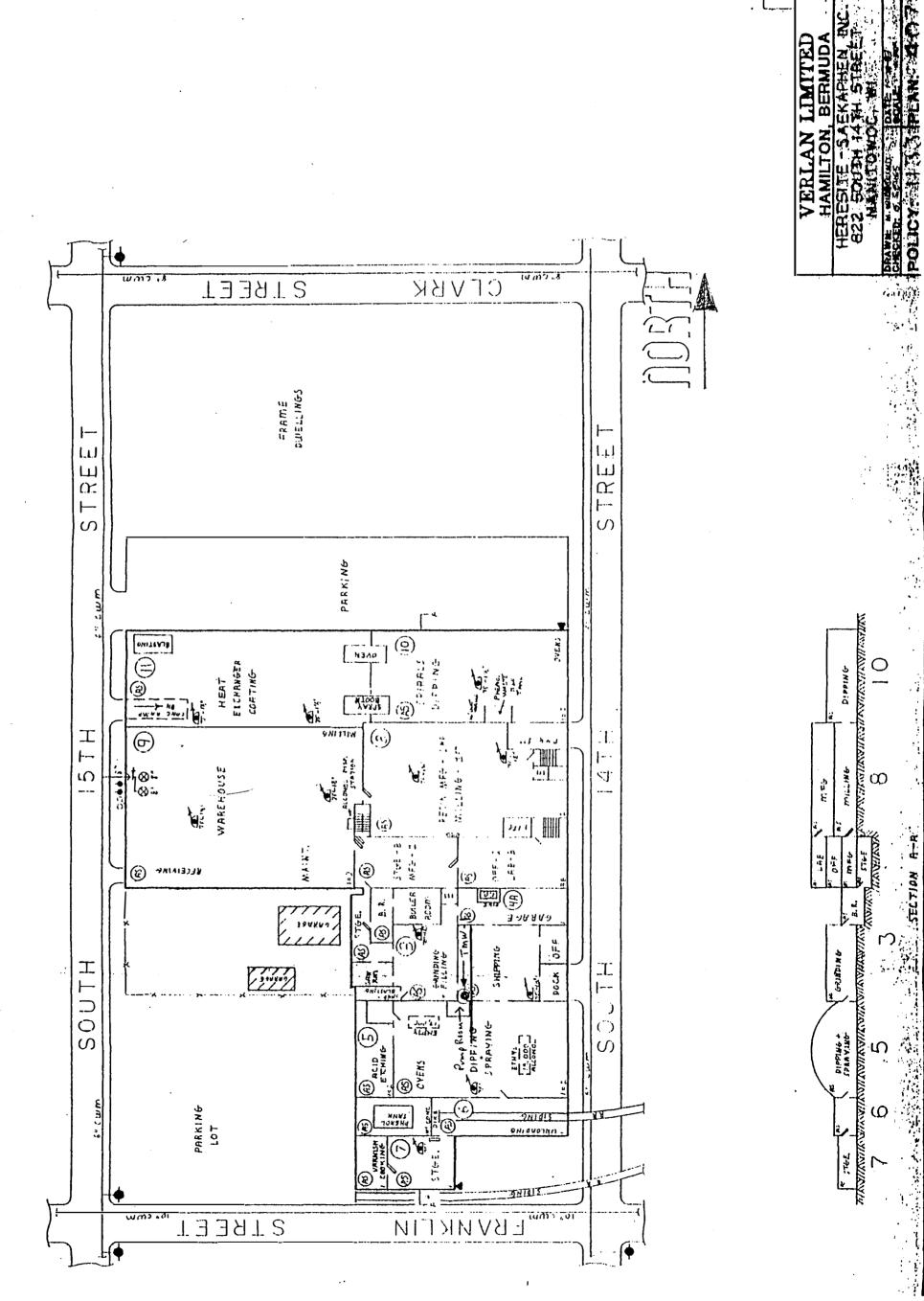
Page ____ of ____ 140 EAST RYAN ROAD OAK CREEK WISCONSIN 53154 0414-764-7005 1-800-422-2195 CLIENT SERVICES 414-768-7460 FAX 414-764-0486

(1) CLIENT: <u>Hereste</u> (JVB Engineering) PROJECT NAME/#: <u>Alichel Tank</u> PROJECT MANAGERS <u>Jim VandenBeern</u> SAMPLER: <u>Jim Vanden Beern</u> P.O. #		STATE	(5) MATRIX ANALYSES REQUESTED (METHODS & DETECTION LIMITS)												S)	LAB USE ONLY					
		NPDES RCRA OTHER	GRAB COMPOSITE	CONTAINERS		WATER (2	TE	rP SLUDGE	ER	OTHER PRESERVATION TYPE		(6) (2) (3) (3) (6) (3) (6) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		C. C		7		J. D/	T # <u>10/(</u> ATE TE #
(2) SAMPLE IDENTIFICATION	DATE	TIME	GRA) #OF		WAT	WAS	S ATWW	OTHER	PRES T	/m : ;	15.5	1 1 1 1 1 1 1 1		1.1			/	(7)	REMARK	S
(1) Groundwater Set 1 S	3/13/94	1/1:5-AM/	X	6		X			Ì	Aciel HEI	\ge	Х	Х	X	Х	Y			Pos A	let Anuly	č e
	3/14/44	//:45 ~ 1 _{PM}	\mathbf{X}	ļ	<u>,</u>	X				Andther	\ge	Х	\mathbb{X}	\boxtimes	\boxtimes				9)55	
(3)		^{,,,,} ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					[<u> </u>	<u> </u>	<u> </u>		
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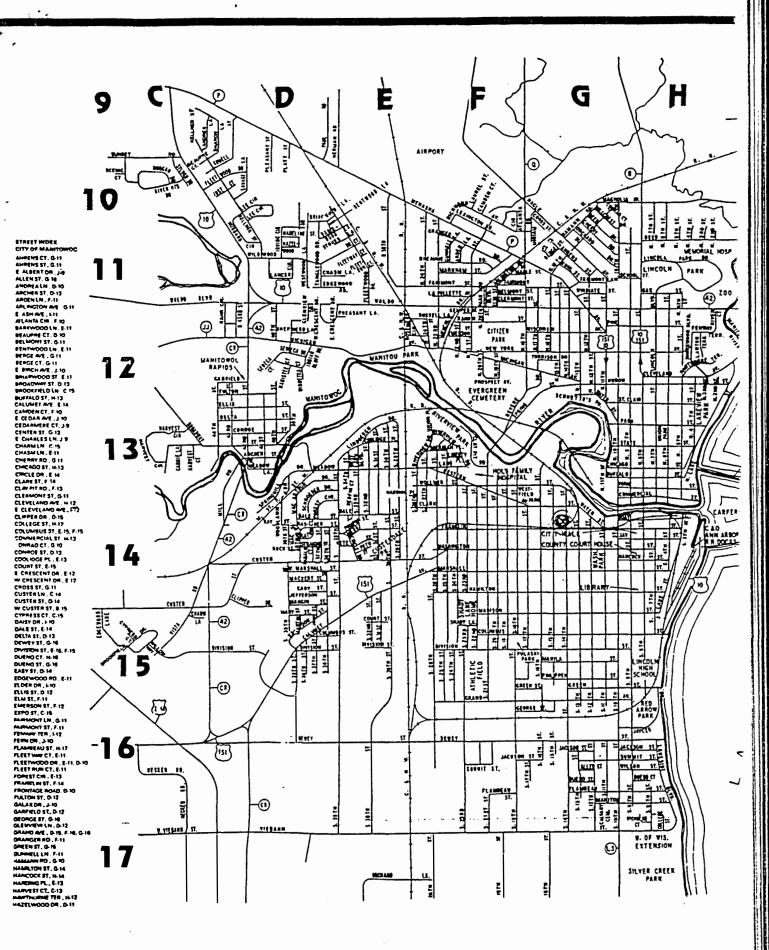
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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters Solid Waste Office 1125 N. Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448 Telephone #: (414)492-5916 Telefax #: (414)492-5859

George E. Meyer, Secretary William R. Selbig, District Director

July 28, 1994

HERESITE PROTECTIVE COATINGS GEOFFERY LIBAN 822 SOUTH 14TH STREET MANITOWOC, WI 54220

> SUBJECT: Heresite Protective Coatings ERRP CASE #36-00426

Dear Mr. Liban:

The Department has received the work plan prepared by James VandenBoom of JVB Engineering.

Currently, no project manager has been assigned to this case for oversight based on the priority ranking and Department caseload. This letter will serve as your "Notice to Proceed" with the work plan. Please be aware that you are required to comply with <u>all</u> applicable statutes and administrative rules including the NR 700 series, Wisconsin Administrative Code (effective May 1, 1994), hazardous waste management and wastewater discharges.

Please be aware that this letter does not represent Department "certification" that any response actions taken at your property, such as site investigation, remedial action or case closure under the ch. NR 700 series, are "approved by the Department," as those terms are used in the "remediated property; purchaser liability" section of the hazardous substance discharge law, s. 144.765, Stats.

Those persons wishing to receive a Department-issued exemption from liability under s. 144.765, Stats., must obtain a separate approval outside those standard approvals granted to sites or facilities as part of the ch. NR 700 response process. Please contact Mark Giesfeldt at (608)267-7562 or Darsi Foss at (608)267-6713 to receive further information of this program. The Department advises persons to contact the Department and receive "pre-approval" for this program at the earliest possible point in the response process, such as before developing the site investigation workplan required by ch. NR 716.

Please submit a letter documenting the progress of this case to the Department within 90 days of receipt of this notice.

If you have questions regarding this matter, please call me at (414) 492-5921.

Sincerely, ust Kristin Nell Hydrogeologist

Emergency and Remedial Response Program

cc: James Vanden Boom; JVB Engineering 1428 Silver Creek Road; P.O. Box 2095; Manitowoc, WI 54221-2095





State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters Solid Waste Office 1125 N. Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448 Telephone #: (414)492-5916 Telefax #: (414)492-5859

George E. Meyer, Secretary William R. Selbig, District Director

July 25, 1994

HERESITE PROTECTIVE COATINGS GEOFFERY LIBAN 822 SOUTH 14TH STREET MANITOWOC, WI 54220

> RE: Heresite Protective Coatings ERRP CASE #36-00426

Dear Mr. Liban:

I am writing to request an update on the status of the above referenced environmental repair case. On June 20, 1994, the Department met with your consultant, Mr. James VandenBoom, to discuss the status of this case. Since this time the Department has not received an update on this case.

Please provide the Department with an letter detailing the status of the above referenced case within 14 days of receipt of this letter. Failure to do so may result in further enforcement actions.

If you have any questions regarding this matter, please contact me at (414) 492-5921.

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Sincerely,

Kristin Nell Hydrogeologist Emergency and Remedial Response Program

cc: James VandenBoom; JVB Engineering 1428 Silver Creek Road; P.O. Box 2095; Manitowoc, WI 54221-2095 .



JVB Engineering

P.O. Box 2095 Manitowoc, WI 54220 414/683-3393

> RECEIVED DNR. JUL 21 1994 LAKE MICH. DIST

July 20, 1994

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Ms. Kristin Nell Lake Michigan District Headquarters P. O. Box 10448 Green Bay, WI 54307-0448

Dear Ms. Nell:

Please find attached the proposed work plan for closeout of the alcohol tank removal done at Heresite Protective Coatings. I will wait to contact the driller and proceed with this project until I hear from you. It will take us several weeks to line up the portable rig required for drilling in the building. Thank you.

Sincerely,

James Varden Boon-

James VandenBoom, P.E. President

JV:sp

Enclosure

WORK PLAN FOR SAMPLING & ANALYSIS TO ALLOW CLOSEOUT OF ABANDONED IN PLACE UNDERGROUND ETHYL ALCOHOL STORAGE TANK AT HERESITE PROTECTIVE COATINGS

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We propose to install a temporary monitoring well per NR 141.29 inside the building at Heresite. The portable truck mounted ring will be obtained by M & K Environmental Drilling and they will install the well. This well is designated TMW-1 on the attached drawings that locate both the well and the site location.

The drilling rig will be brought into the building through the garage area (Building 4A) and be stationed as close as possible to the southwest corner of the Shipping Department near the pump room. This location is northeast of the tank location and should be within 20 feet of the abandoned in place tank. The groundwater flow should be to the northeast to the river so this should be a good location. There is not enough headroom to enter the Coating Department (Dipping & Spraying, Building 5). Both the overhead door for the Shipping Department and the garage will be left open along with the door to the sandblasting booth, which will have its blower started up. This is to prevent buildup of vapors from the engine for safety reasons. The overhead door from Shipping to the Coating Department will be closed for safety reasons when drilling and to prevent sample contamination with organic vapors when sampling is being done.

The well will be installed on a Saturday to prevent interference with production and to enhance safety.

The well will then be developed and sampling will take place on a Sunday or early Monday morning to minimize possible sample contamination by vapors from the Coating Department.

The sample taken will be analyzed for the following parameters by the methods indicated:

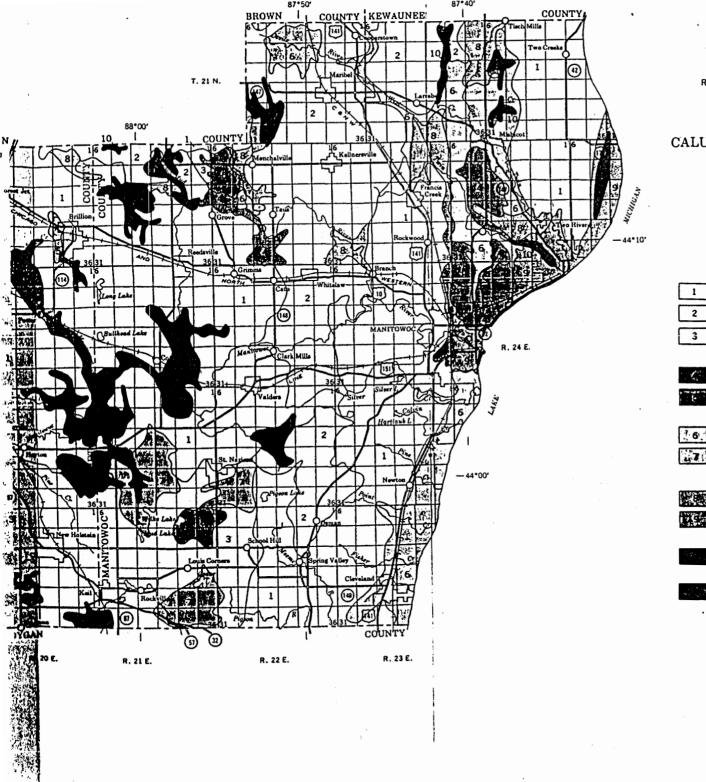
Parameter	Detection Limit	Analytical Method
Ethanol Benzene	5.0 1.0	GC-FID Headspace Technique GC-Method 8020*
Ethylbenzene	1.0	GC-Method 8020*
Toluene Total Xylenes	1.0 3.0	GC-Method 8020* GC-Method 8020*
		Acid Preserved

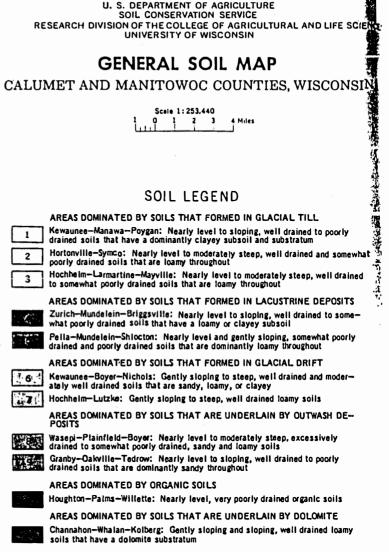
A grab sample of the groundwater from the developed well will be taken. It may be split to take to two environmental laboratories to confirm that the results of the analyses are correct. This will be determined at time of sampling. Sample(s) will be put on ice and forwarded to CBC in Milwaukee and/or Ortek in Green Bay for analysis. Although a single previous sample of sludge and brown liquid from tank closeout contained some ethylbenzene, toluene and xylene and a field blank had traces of these materials, diluted material taken for disposal from tank to Green Bay did not contain these materials above detection limits. There is no reason to suspect that these materials would be in the tank although xylene and toluene are used in other areas on the site.

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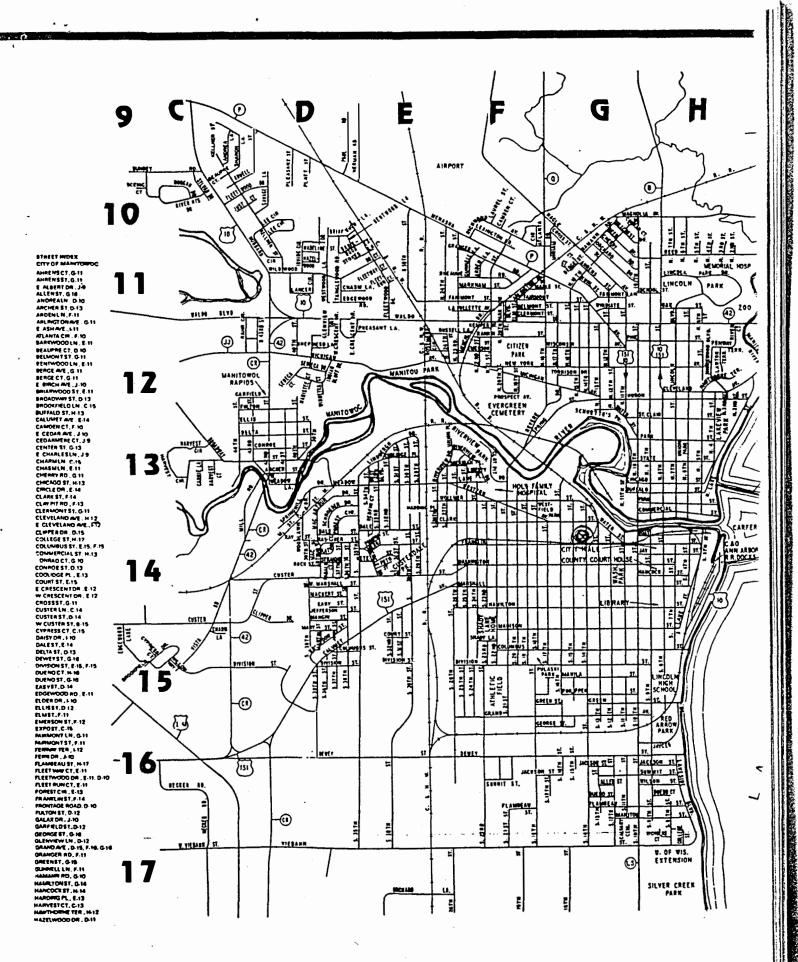
If materials other than alcohol are detected by the new sampling from the temporary monitoring well, the logical assumption would be that they are there from LUST sites or as yet unidentified leaking tank sites upstream of the groundwater floor.





Compiled 1978

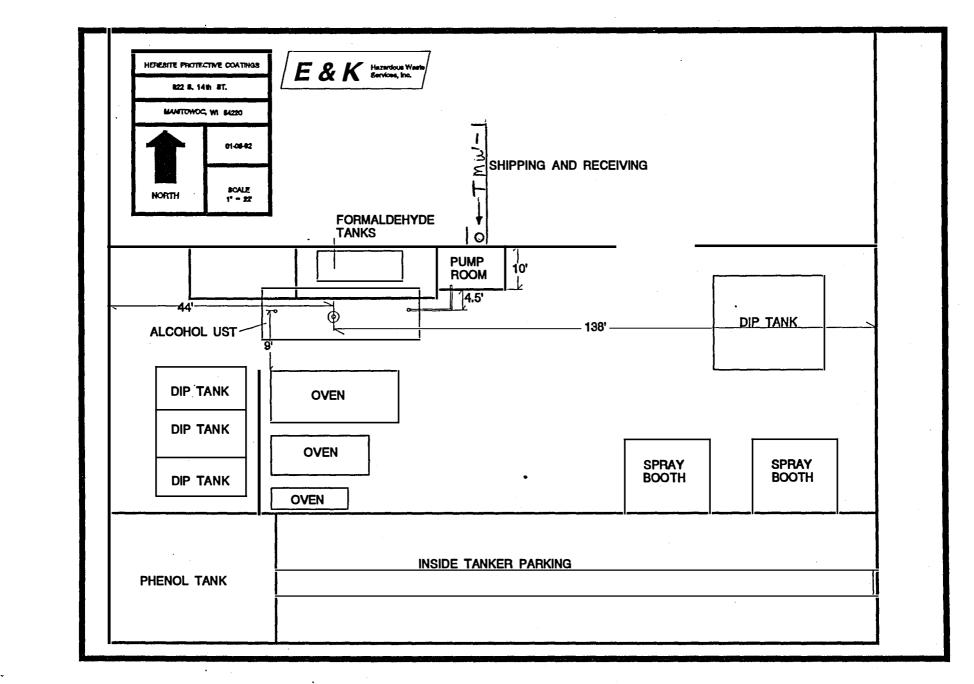




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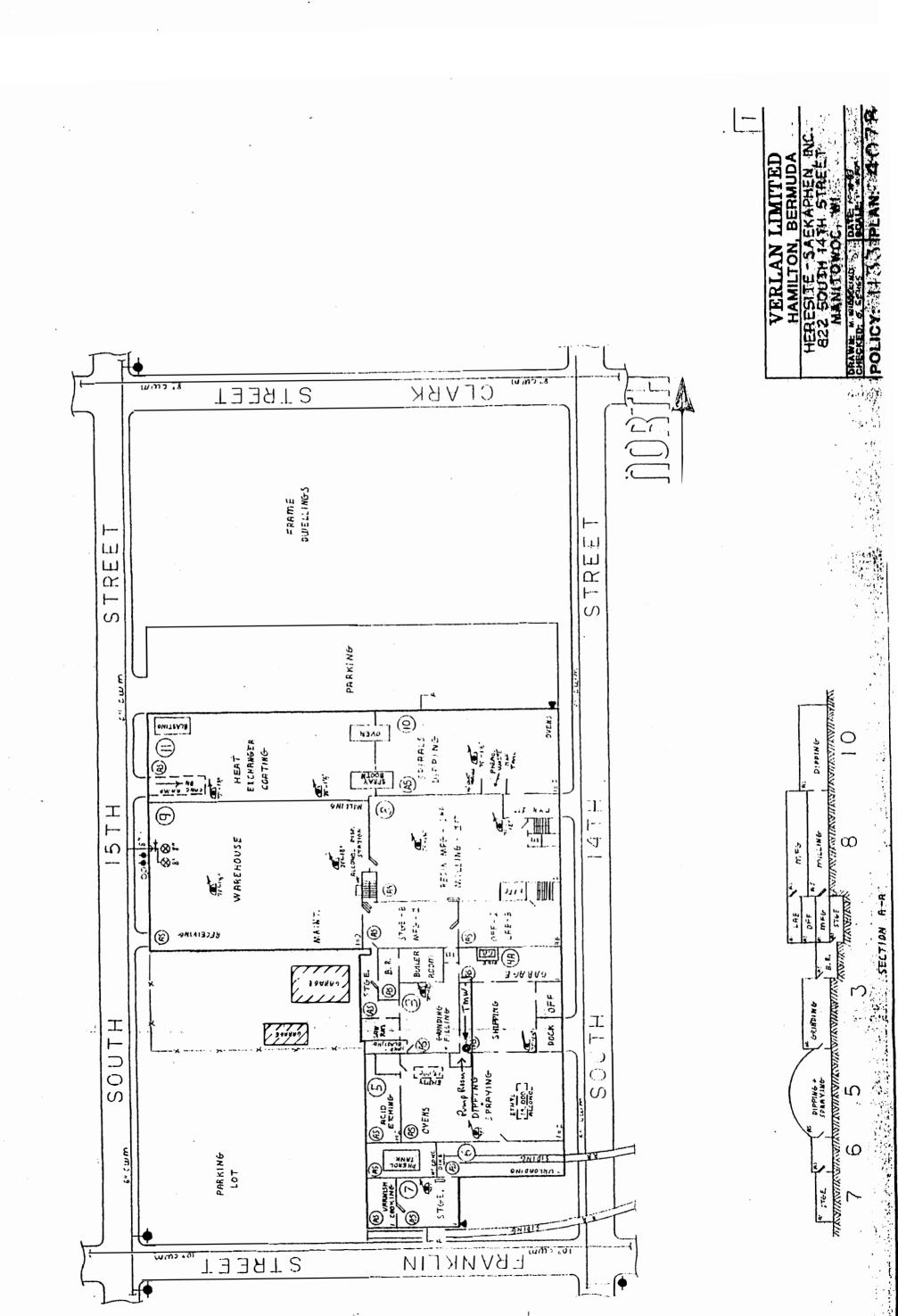
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TELEPHONE LOG

SITE NAME: Heresite Protective Coatings DATE: 6-20-94
SITE NO.: 36-00426 TIME: 030
CONTACT: Janden Boom PHONE NO.: 683-3393
COMPANY/AGENCY: UNB Engineering
COMPANY/AGENCY: <u>UVD</u> Engineering Met with Mr. Vandenboom today to determine what to do about grandwater samples tor this site. He is still planning an putting a work plan together by surge de what samples will be analyzed for Proc and ethand. PVDC may be coming from another source uppadient. WP will explain what method they will be wing. (geoprobe, temperang well, mantaring well)



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters 1125 N. Military Avenue P.O. Box 10448 Green Bay, Wisconsin 54307-0448 TELEPHONE: (414)492-5916 TELEFAX: (414)492-5859

George E. Meyer Secretary

June 17, 1994

HERESITE PROTECTIVE COATINGS GEOFFERY LIBAN, CEO 822 SOUTH 14TH STREET MANITOWOC, WI 54220

SUBJECT: Acknowledgement of Receipt

Facility/Site Name: Heresite Protective Coatings

Project Number: 36-00426

ERRP Tracking Number: 426

Type of Submittal: Consultant Verification

Submitted By: Geoffery Liban

Date Received: June 16, 1994

Received By:

Kristin Nell, Hydrogeologist Emergency and Remedial Response Program

If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608)267-7562 or Darsi Foss at (608)267-6713, in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765, Stats., is available to persons who meet the definition of "purchaser' in s. 144.765 (1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. 716 site investigation at the property.

If you have any questions regarding this matter, please contact me at (414) 492-5921.

Sincerely,

her

Kristin Nell Hydrogeologist Emergency and Remedial Response Program





RECEIVED JUN 1 6 1994 LMD SOLID WASTE RECEIVED DNR



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"Where Quality Is A Tradition"

JUN 16 1994 June 14, 1994 LAKE MICH. DIST

State of Wisconsin DEPARTMENT OF NATURAL RESOURCES P O BOX 10448 GREEN BAY, WI 54307-0448

Attention: Roxanne L. Nelezen Program Assistant Emergency and Remedial Response Program

Re: HERESITE PROTECTIVE COATINGS, INC. ERRP CASE #36-00426

Dear Ms. Nelezen,

Please change your records to show that the proper name for our Company is HERESITE PROTECTIVE COATINGS, INC., somehow the word Heritage has been used in error.

I am writing this letter in response to your letter of May 19, 1994. At that time you requested that we inform you of the consultant we have hired in this matter. The person we have chosen is Jim VandenBoom of JVB Engineering, P.O. Box 2095, Manitowoc, WI 54220. Jim will be getting in touch with you in the near future to make further arrangements. Any specific questions you may have on this project can then be answered by Jim directly depending on the date and time of your meeting. I would assume that we could still adhere to your schedule of furnishing you a work plan by July 22, 1994. Please bring this to Jim's attention at the time of your meeting.

> Sincerely, HERESITE PROTECTIVE COATINGS, INC. Geoffrey C. Liban Chief Executive Officer

GCL/kk

cc: JVB Engineering

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 FAX: (414) 684-0110



George E. Meyer, Secretary William R. Selbig, District Director

May 19, 1994

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES



Lake Michigan District Headquarters Solid Waste Office 1125 N. Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448 Telephone #: (414)492-5916 Telefax #: (414)492-5859

Heritage Protective Coatings, Inc. Geoffery Liban, CEO 822 South 14th Street Manitowoc, WI 54220

> RE: Heritage Protective Coatings, Inc. ERRP CASE #36-00426

Dear Mr. Liban:

The Department has received the request for an extension from Mark Barber. The Department will grant you an extension to hire a consultant and submit a workplan.

By June 21, 1994, please submit written notification of the consultant you have hired.

By July 22, 1994, please have your consultant submit a workplan to address the water contamination in the area of the abandoned tank. Include a request to sample for only ethanol, this option will be reviewed at this time.

I will be transferring within the Department, if you have any questions please contact Kristin Nell at (414)492-5921.

Sincerely,

Roxanne L. Nelezen Program Assistant Emergency and Remedial Response Program

cc: Mark Barber; Heritage Protective Coatings, Inc.





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RECEIVED DNR. MAY 19 1994 LAKE MICH. DIST

May 18, 1994

RECEIVED MAY 1 9 1994 LMD SOLID WASTE

State of Wisconsin Department of Natural Resources Lake Michigan District Headquarters 1125 North Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448

Attention: Roxanne L. Nelezen Program Assistant, Emergency & Remedial Response Program

Reference: ERRP Case #36-00426

Dear Ms. Nelezen:

We received your letter dated April 17, 1994 on April 20, 1994. Due to the fact that the closed tank is located in a vital production area of our plant, a permanent monitoring well would affect plant efficiency. Therefore, we propose a different temporary method be used to obtain the needed groundwater sample(s). Secondly, when in use the tank in question contained only virgin denatured ethanol. We suggest the sample(s) be tested only for ethanol and not the full VOC's. Lastly, E & K Superior, the firm that closed the tank in January 1992, can no longer serve our needs in this area. Therefore, given these three items, we will need an extension to the submittal of a formal work plan to remediate this site.

If you have any questions or comments, please contact Geoffrey Liban, CEO, or myself at (414) 684-6646.

Sincerely,

HERESITE PROTECTIVE COATINGS, INC.

Mark Barber Lab Technician

MB/kml

Enclosure

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 FAX: (414) 684-0110



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters 1125 N. Military Avenue P.O. Box 10448 Green Bay, Wisconsin 54307-0448 TELEPHONE: (414)492-5916 TELEFAX: (414)492-5859

George E. Meyer Secretary

April 17, 1994

Heritage Protective Coatings, Inc. Geoffery Liban, CEO 822 South 14th Street Manitowoc, WI 54220

> RE: Heritage Protective Coatings, Inc. ERRP CASE #36-00426

Dear Mr. Liban:

As you are aware, the Heritage Protective Coatings, Inc. ERRP CASE #36-00426 was recently submitted to the case closeout committee. This panel reviews environmental remediation cases for compliance with state laws, standards, and guidelines to maintain consistency in the closeout of cases. After a careful review, the panel has decided this case cannot be closed at this time.

The committee is requesting further work to insure the water quality. The committee is requiring that a minimum of one monitoring well is placed near the abandoned tank. The sample shall be analyzed for Volatile Organic Compounds (VOC's) and ethanol. If the water quality of the sample is below the ground water standards in NR 140, Wisconsin Administrative Code, this case can again be submitted for closure review.

Within 60 days, please submit a work plan to remediate this site.

If you have any questions regarding the content of this letter, please contact me at (414)492-5921.

Sincerely,

-Roxanne L. Nelezen Program Assistant Emergency & Remedial Response Program

cc: Peter Madden; Superior Environmental Services P.O. Box 1249; Sheboygan, WI 53082-1249



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Lake Michigan District Headquarters 1125 N. Military Avenue P.O. Box 10448 Green Bay, Wisconsin 54307-0448 TELEPHONE: (414)492-5916 TELEFAX: (414)492-5859

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George E. Meyer Secretary

July 29, 1993

Heresite Protective Coatings, Inc. Geoffrey Liban, CEO 822 South 14th Street Manitowoc, WI 54220

SUBJECT: Acknowledgement of Receipt

Facility/Site Name:

ERRP Tracking Number:

Heresite Protective Coatings, Inc.

Final Report and Closure Review Request

Superior Environmental Services, Inc.

36-00426

Type of Submittal:

Submitted By:

Date Received:

July 28, 1993

Peter Madden

Received By:

Wava K. Quandt, Environmental Specialist Emergency and Remedial Response Program

Note: A closure review assessment will be made on this case as requested. Due to a backlog of review requests and Departmental workloads, this case will not be submitted to the Closure Review Panel until their monthly October meeting. If you have any questions, please contact me at (414)492-5921.



THE HOME TEAM ADVANTAGE



RECEIVED NUL 20 103 LND SOLID WASTE

July 27, 1993

Ms. Wava Quant WISCONSIN DEPARTMENT OF NATURAL RESOURCES 1125 N. Military Ave. Green Bay, WI 54307-0448

re: Heresite Protective Coatings (ERRP case #36-00426)

Dear Ms. Quant;

The attached report is being sent to you in response to your letter of April 27, 1993 to Heresite. As we discussed in our telephone conversation a few weeks ago, this report makes the recommendation for a closure based on the nature of the material the tank held (alcohol) and the inaccessibility of the tank for further testing. I spoke with Mr. Geoffrey Liban of Heresite, who gave me permission to release this report to you.

The two people who were involved with this project from E&K (Dean Kelley) and Heresite (Ed Blake) are no longer in the positions they held at the time this project was done. E&K proposed the project to Heresite and carried it out as noted in this report. The conclusions stated in this report were accepted at the time by the representative for Heresite.

If the Department determines that additional action is needed at this site, please contact Mr. Liban at Heresite. For E&K to have further involvement with this project, we will need to arrange for a contract with Heresite.

Sincerely.

Peter Madden Manager of Environmental Services

cc: Mr. Geoffrey Liban, Heresite

enclosure



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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Lake Michigan District Headquarters 1125 N. Military Avenue P.O. Box 10448 Green Bay, Wisconsin 54307-0448 TELEPHONE: (414)492-5916 TELEFAX: (414)492-5859

George E. Meyer Secretary

April 27, 1993

Heresite Protective Coatings, Inc. Goeffrey C. Liban, CEO 822 South 14th Street Manitowoc, WI 54220

RE: ERRP CASE #36-00426.

Dear Mr. Liban:

I have reviewed the Site Assessment and Closure Report completed by E&K Hazardous Waste Services, Inc. for the denatured alcohol Underground Storage Tank (UST) release at Heresite Protective Coatings, Inc.

Before this case can be considered for closure review, several matters must be addressed. The information provided to the Department identifies the contents of the UST as denatured alcohol. Soil and groundwater samples should be analyzed for the parameter which was released. A standard from the actual product released can be compared to the soil sample analysis.

As I explained in our April 25, 1993 telephone conversation, it will be necessary to submit closure samples before this case can be considered for closure review. Although your consultant has recommend passive boiremediation for this release, closure samples will still need to be collected and analyzed to determine whether this is\has been an effective form of remediation.

The Executive Summary of this report indicates that groundwater was encountered during the tank removal, and that there was a probability that groundwater had been impacted, yet no groundwater samples were completed. As part of the continued investigation/remediation of this site, groundwater samples should be collected and analytical results submitted to the Department.

The Site Assessment report does not include a chain of custody form. Please submit this document with you final report.

If you have any questions regarding this matter, please call me at the number listed above.

Sincerely,

Way a. Cillancet

Wava Kay Quandt Environmental Specialist Emergency and Remedial Response Program

cc: Peter Madden; E&K Hazardous Waste Services, Inc. 2905 Paine Avenue; PO Box 1249; Sheboygan, WI 53082-1249





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RECEIVED APR 26 1993 LMD SOLID WASTE

April 23, 1993

State of Wisconsin Department of Natural Resources Lake Michigan District Headquarters 1125 North Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448

Attention: Wava Kay Quandt Environmental Specialist, Emergency & Remedial Response Program

Re: Former LUST CASE #36-01178. Heresite Protective Coatings ERRP CASE #36-00426

Dear Ms. Quandt:

We received your letter dated April 20, 1993 on Thursday, April 22, 1993. We believe this matter involves an alcohol tank which was abandoned in our facility in early January of 1992 by E & K Hazardous Waste Systems. In discussions with Peter Madden of E & K he feels there may be some facts which you have not been given. Because of that I have enclosed the following:

- Letter dated August 10, 1992 from our former technical director Edward Blake to Mary Robl of the LUST unit in Green Bay.
- A copy of the tank closure report completed by E & K Hazardous Waste Systems of Sheboygan.

In his letter of August 10, 1992 Ed Blake does mention that the concentrations around the tank were low and that ethyl alcohol is readily biodegradable so that the threat of contamination is low. In addition, he also mentioned that since this tank was located underneath the floor of the production area it is not possible for this concentration to be spread by rain water. The final item is that because of its location it was deemed too expensive to remove the tank from the current location and instead was abandoned in place.

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 TWX: 910-260-2406 FAX: (414) 684-0110 I am hopeful that this information will clarify this matter for you. Please feel free to give us a call should you have further questions. This is the first and only underground tank that we have abandoned. In order to insure that we had done this properly, we enlisted the aid of Dean Kelly and his people at E & K Hazardous Waste Systems. Your timely reply would be appreciated.

Sincerely,

HERESITE PROTECTLYE COATINGS, INC.

Geofftey /d. Liban

Chief Executive Officer

GCL/kml

Enclosure

cc: Peter Madden, E & K Hazardous Waste Systems Thomas Fritzke, Heresite Protective Coatings





"Where Quality Is A Tradition"

August 10, 1992

Wis. Dept. of Natural Resources Leaking Underground Storage Tank Unit 1125 N. Military Ave P.O. Box 10448 Green Bay, WI 54307-0448

Attention: Mary Robl

Re: LMD Unique ID #36-01178

Dear Ms. Robl:

We received Ms. DeBrock's June 10 letter concerning the above Underground Storage Tank.

Please note that this tank was not used to store petroleum products. The tank was used to store denatured ethyl alcohol. The Lower Explosive Limit for this substance is 3.3%. The quantity of material found in the soil samples was 72 mg/kg. Since this level is far below the LEL, no explosion risk exists.

Ethyl alcohol is readily biodegraded into vinegar or carbon dioxide and water. The tank is under the floor of our building, protected from rain water that would carry the alcohol elsewhere. From this standpoint, the site is stable. The best remediation plan for this situation is to allow naturally occurring bacteria to biodegrade the ethyl alcohol.

Please send all correspondence on this matter to: D. Edward Blake P.O. Box 250

Manitowoc, WI 54221-0250

Regards,

HERESITE PROTECTIVE COATINGS, INC.

D. Edward Blake Technical Director

DEB/kmo

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 TWX: 910-260-2406 FAX: (414) 684-0110



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

COPY

Lake Michigan District Headquarters 1125 N. Military Avenue P.O. Box 10448 Green Bay, Wisconsin 54307-0448 TELEPHONE: (414)492-5916 TELEFAX: (414)492-5859

George E. Meyer Secretary

April 20, 1993

Heresite Protective Coatings D. Edward Blake 822 S. 14th Street Manitowoc, WI 54220

> RE: Former LUST CASE #36-01178. Heresite Protective Coatings. ERRP CASE #36-00426.

Dear Mr. Blake:

The Wisconsin Department of Natural Resources (WDNR) Emergency and Remedial Response Program (ERRP) has been notified that soil and/or groundwater contamination was discovered at the above-referenced location. The LUST unit cases are limited to releases of petroleum products. Therefore, this case has been transferred to the ERRP unit for case overview. This case has been currently ranked as an <u>UNKNOWN</u> priority. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

The WDNR proceeds in contamination cases under the authority of s. 144.76, Wisconsin Statutes, commonly referred to as Wisconsin's Hazardous Substance Spill Law. The definition of "hazardous substances" encompasses any waste of a solid, semisolid, liquid, or gaseous form that can cause harm to the environment or human health.

Wisconsin Statute 144.76(2)(a) states: "A person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance shall notify the Department immediately of any discharge not exempt under sub. (9)."

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

Because you possess or control a hazardous substance that has been released to the environment, the Department identifies you as a party responsible for taking the actions necessary to restore the environment. As the responsible party:

1. You will need to hire a qualified environmental, hydrogeologic, or engineering consultant to conduct a remedial investigation of soil and groundwater. A document titled "Selecting an Environmental Consultant" and a Consultant Listing is enclosed for your convenience. Regardless of the priority designation, you are required to proceed with the investigation and clean-up effort.

2. Within 10 days of receipt of this notice, please provide me with a <u>letter</u> containing the name of the consultant you have retained. The consultant that you hire will have 45 days to submit a workplan. Your consultant should send a map of the site location (legal description), the date the investigation will begin, and <u>immediately</u> identify all drinking water wells within 1200 feet of the site.

3. The Department must be notified of any additional information you possess that can aid in determining a priority for this site. The general information the Department requires from you to prioritize cases includes: a description of any documented groundwater or surface water contamination, the site status and years of operation, and any investigation or remediation efforts that have occurred at this site.

4. Upon completion of the investigation, a remedial action(s) necessary to clean up contaminated soil and groundwater will be chosen and implemented. You must dispose of or treat all products, soils, wastewater, or sludges in compliance with



all applicable federal, state, and local laws and regulations.

Due to the Department's workload, it is necessary to prioritize all contamination cases. The system that is being utilized at this time follows this format:

- Case identification а.
- Priority rank (High, Low, and Unknown) b.
- Responsible party notification letter c.
- d. Prescore cases (for potential threat to public health, safety, welfare, and the environment)
- Responsible party hires a consultant...investigation phase begins e.
- f. Remedial design and remedy selection phase (review of design by DNR if high priority)
- Remedial action g.
- h. Long term monitoring/maintenance... if necessary
- i. Close out...this step can only be attained once all remediation is complete and there is no further contamination of soils, groundwater, surface water and air. It is necessary that sampling show no detection exceeding those laws that are applicable to the situation.

High priority sites have assigned WDNR Project Managers who are actively reviewing and approving investigation and remediation plans. Low priority cases do not always have assigned project managers; however, responsible parties are required to proceed with investigation and clean-up efforts.

Unknown cases are those cases which do not have adequate information to rank. These cases are treated as a HIGH until information is obtained to assign a priority. I will answer any questions that you may have on this case, however, I am not a project manager for this case.

If you consider any previous investigation and/or clean-up effort to be sufficiently complete you must provide a detailed report with analytical documentation justifying your position. The Department will make a final determination if close-out of this case can be considered.

Your cooperation in this matter will be appreciated. If you have any question in regard to the contents of this letter, please call me at the number located on the letterhead.

Sincerely,

Walk Gland

Wava Kay Quandt **Environmental Specialist** Emergency & Remedial Response Program

Enc: Site Investigation Checklist Selection Criteria Consultant List

ac. Etk Put madein



State of Wisconsin $\$ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny Secretary

File Ref:

2-17-93

This is not a petroleum LUST case! The UST contained Lenatured ethanol (CH3CH2OH). If anything, it's an ERF case.

However, ethand is pretty benign, so I would evaluate whether any action is needed. There's plenty of real problems to work on.

- Matt Hostok



ESTABLISHED 1935

"Where Quality Is A Tradition"

Licensee of

August 10, 1992

RECEIVED DNR

AUG 1 2 1992

LAKE MICHIGAN DISTRICT

Wis. Dept. of Natural Resources Leaking Underground Storage Tank Unit 1125 N. Military Ave P.O. Box 10448 Green Bay, WI 54307-0448

Attention: Mary Robl

Re: LMD Unique ID #36-01178

Dear Ms. Robl:

We received Ms. DeBrock's June 10 letter concerning the above Underground Storage Tank.

Please note that this tank was not used to store petroleum products. The tank was used to store denatured ethyl alcohol. The Lower Explosive Limit for this substance is 3.3%. The quantity of material found in the soil samples was 72 mg/kg. Since this level is far below the LEL, no explosion risk exists.

Ethyl alcohol is readily biodegraded into vinegar or carbon dioxide and water. The tank is under the floor of our building, protected from rain water that would carry the alcohol elsewhere. From this standpoint, the site is stable. The best remediation plan for this situation is to allow naturally occurring bacteria to biodegrade the ethyl alcohol.

Please send all correspondence on this matter to: D. Edward Blake

P.O. Box 250 Manitowoc, WI 54221-0250

Regards,

HERESITE PROTECTIVE COATINGS, INC.

D. Edward Blake Technical Director

DEB/kmo

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 TWX: 910-260-2406 FAX: (414) 684-0110



Cerroll D. Besedny Secretary 1125 N. Military Avenue P.O. Box 10448 Green Bay, WI 54307-0448 TELEFAX 414-492-5913

CERTIFIED MAIL/RETURN RECEIPT REQUESTED

June 10, 1992

Mr. D. Edward Blake Heresite Protective Coatings 822 S. 14th Street Manitowoc, WI 54220

RE: Petroleum Contamination from Underground Storage Tank System Heresite Protective Coatings, 822 S. 14th Street, Manitowoc LMD Unique ID #36-01178

Dear Mr. Blake:

The Wisconsin Department of Natural Resources (WDNR) was notified on June 3, 1992, that petroleum contamination was discovered at the above-referenced location. Based on the limited site-specific information provided, this case has been assigned to the <u>UNKNOWN PRIORITY</u> rank group until further information is received to rerank it. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Releases from underground storage tanks regulated under Subtitle I of the Resource Conservation and Recovery Act require compliance with the provisions of 40 CFR, Parts 280 and 281. The Environmental Protection Agency (EPA) has the authority to take enforcement action at any time, but will generally not take actions against parties cooperating with the state. The WDNR proceeds in LUST cases under the authority of s. 144.76, Wisconsin Statutes, commonly referred to as Wisconsin's Hazardous Substance Spill Law. The definition of "hazardous substance" as found in s. 144.01(4m), Stats., includes petroleum products.

Wisconsin Statute 144.76(2a) states: "A person who possesses or controls a hazardous substance or who causes the discharge of a hazardous substance shall notify the Department immediately of any discharge not exempt under sub. (9)."

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state."

Because you possess or control a hazardous substance that has been released to the environment, the Department identifies you as the party responsible for taking the actions necessary to restore the environment. The conditions present at this site pose a potential threat to human health and/or the environment. You are required to immediately identify any risks or explosive vapors and/or well contamination. You are required to conduct an investigation to determine the extent of contamination, the potential for groundwater impacts, and the remedial

action(s) necessary to clean up contaminated soil and groundwater. You must dispose of or treat all products, soils, wastewater, or sludges in compliance with all applicable federal, state, and local laws and regulations. All groundwater remediation projects which discharge to surface or groundwater (including all discharges to storm sewers) must be covered by a WPDES Discharge Permit. The only discharges not requiring a permit are those to a sanitary sewer; however, in those cases, the treatment facility receiving the discharge and the owner of the sewer system must be contacted for approval. An application must be submitted as early as possible to allow time for needed monitoring or additional data collection prior to discharge. The permit will contain discharge limits for pollutants of concern, along with sampling frequency and test methods.

Before any contaminated soil can be treated or disposed, an "Application to Treat or Dispose of Petroleum Contaminated Soil" must be completed and approved by the DNR; however, prior approval by the DNR is not necessary if soil is to be buried at a landfill. Until the contaminated soils can be treated or disposed of, they should be stored on an impermeable surface, bermed to prevent runoff and runon, and covered with an impermeable cover material such as plastic.

The Department requests that you hire a qualified environmental hydrogeologic or engineering consultant and that, within 120 days, your consultant should complete the initial site investigation and submit a site investigation report, to include a recommendation for future remedial investigation/action. Based on the information in the report, we will be able to reran the case. If groundwater is suspected to be impacted, please notify your WDNR project manager immediately, as this may cause the case to be ran ed as a high priority—in which case, approval from your WDNR project manager may be required prior to implementing any remediation program; also, all wells within 1200 feet should be identified on a site map and those closest to the site should be sampled.

You are encouraged to contact the Department of Industry, Labor & Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund may reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem. Failure to comply with these requirements could subject you to further enforcement action.

Due to the workload and staffing levels, at this time no WDNR project manager has been assigned to this case. However, all correspondence and reports should be forwarded to the following address:

Wisconsin Department of Natural Resources Leaking Underground Storage Tan Unit Attn: Mary Robl 1125 N. Military Avenue, PO Box 10448 Green Bay, WI 54307-0448

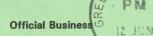
All correspondence and reports should be identified with the assigned LMD unique ID number.

Sincerely,

Janis m. Debrock

Janis M. DeBrock, Program Assistant Leaking Underground Storage Tan Unit

cc: DILHR, 2331 San Luis Place, Green Bay, WI 54304
 Fred Ringle / Dean Kelley, E & K Hazardous Waste Services, Inc., 2905 Paine Avenue, Sheboygan, WI 53081



PM

100%

UNITED STATES POSTAL SERVICE



PENALTY FOR PRIVATE USE, \$300

Print your name, address and ZIP Code here

M. Robl

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DEPARTMENT OF NATURAL RESOURCES
LAKE MICHIGAN DISTRICT HEADQUARTERS
1125 NORTH MILITARY AVENUE
P. O. BOX 10448
GREEN BAY. WI 54307-0448
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 SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that return this card to you. Attach this form to the front of the mailpiece, or on the back is does not permit. Write "Return Receipt Requested" on the mailpiece below the artition and the date of delivery. Article Addressed to: Heresite Protective Coatings Attn: Mr. D. Edward Blake 822 S. 14th Street Manitowoc, WI 54220 Re: Heresite Protective Coating LMD ID #36-01178 	f space 1. Addressee's Address cle number. 2. Restricted Delivery on delivered Consult postmaster for fee. 4a. Article Number P P 860 375 035 4b. Service Type Insured Registered Insured XX Certified COD Express Mail Return Receipt for
5. Signature (Addressee) 6. Signature (Agent) /	8. Addressee's Address (Only if requested and fee is paid)
PS Form 3811 , November 1990 ± U.S. GPO: 1991–287	OG6 DOMESTIC RETURN RECEIPT

P 860 375 035

	Certified N	lail Receipt					
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	Sent to	8 85 25					
	Mr. D. Edward Bl	ake					
	Street & No.						
	822 S. 14th St.						
	P.O., State & ZIP Code						
	Manitowoc, WI	54220					
	Postage	\$					
1	Certified Fee						
116 111	Special Delivery Fee						
No. Inc.	Restricted Delivery Fee						
066	Return Receipt Showing to Whom & Date Delivered						
Form 3800, June 1990	Return Receipt Showing to Whom, Date, & Address of Delivery						
	TOTAL Postage & Fees	\$					
	Postmark or Date						
	Re: Heresite Protective						
E	Coatings						
PS	LMD ID #36-01178						



ESTABLISHED 1935

"Where Quality Is A Tradition"



May 27, 1992

RECEIVED JUN 0 3 1992 LMD SOLID WASTE

Wisconsin Department of Natural Resources Underground Storage Tank Program 1125 N Military Road Green Bay WI 54307

Gentlemen:

Enclosed is a report from E&K Hazardous Waste Services, Inc. concerning the closure of an underground storage tank that was previously used for the storage of denatured ethanol.

If you have any questions concerning this project, please contact me at 414-684-6646.

Regards,

HERESITE PROTECTIVE COATINGS, INC.

. Edward Blake

D. Edward Blake Technical Director

DEB/slm

Enclosure

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 TWX: 910-260-2406 FAX: (414) 684-0110

RECEIVED

JUN 0 3 1992 LMD SOLID WASTE

Site Assessment and Closure Report for:

Underground Storage Tank Closure at

Heresite Protective Coatings, Inc. 822 S. 14th Street Manitowoc, WI 54220

JANUARY 8, 1992

Prepared for:

Mr. D. Edward Blake Heresite Protective Coatings, Inc. 822 S. 14th Street Manitowoc, WI 54220

Prepared by:

E & K Hazardous Waste Services, Inc. 2905 Paine Avenue Sheboygan, WI 53081

May 7, 1992

Fred Ringle

Fred Ringle Project Assistant

_

m. Celler Dean Kellev

Dean Kelley Project Manager

Introduction

This report presents the results of E & K Hazardous Waste Services Inc. activities in connection with the cleaning and closure in-place of one 19,000 gallon denatured ethanol underground storage tank at 822 S 14th Street in Manitowoc, Wisconsin.

The tank closure was performed at the request of D. Edward Blake, Technical Director, Heresite Protective Coatings, Inc. 414-684-6646. E & K Hazardous Waste Services, Inc. monitored soil conditions at the site and performed the closure of the tank. Diagrams depicting the locations of the UST and the adjacent surroundings are presented in Appendix 5. A United States Geological Survey map and a City of Manitowoc map are located in Appendix 1. The completed Wisconsin Department of Industry, Labor and Human Relations (DILHR) Underground Petroleum Product Tank Inventory Form (SBD-7437) is presented in Appendix 2. The Wisconsin Department of Industry, Labor and Human Relations to close the tank in place, a copy of the authorization is also included in Appendix 2. Fire Department personnel from the City of Manitowoc were notified prior to the tank closure of the impending action. No Fire Department personnel were on site at the time of the closure.

Executive Summary

Soil samples were collected to determine if contamination of the soil had occured at the site. Laboratory analyses indicated that a low level of ethanol had been released from the underground storage tank. Groundwater was encountered at the site and there is a potential that groundwater has been contaminated by the release from the tank.

Scope of Work

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

- Pumping, degassing, cleaning, and ultimate closure of the UST.
- Containerization and Disposal of wastes generated in cleaning the tank.
- Obtained soil samples that were representative of the site.
- Submitted samples for analysis.
- Compiled the necessary data to complete this report.

Tank and Site History

The site is a manufacturing facility which produces high quality coatings for various industrial needs. The 19000 gallon tank was used for storage of denatured ethanol used in the manufacturing process. The owner of the property has no actual knowledge of the past history of the tank prior to its installation at the facility. The tank is assumed to be a former railcar-tanker which was retrofitted and installed for use as an underground storage tank back in the late 1930's.

Site Location, Topography, and Soils

The facility is located at 822 S. 14th Street in Manitowoc, Wisconsin. The site lies in Township 18 North, Range 24 East, in the City of Manitowoc (SW 1/4, of the NE 1/4, Section 30).

The native soils at this site are mapped as Nichols very fine sandy loam in the Soil Survey of Calumet and Manitowoc Counties, Wisconsin (July 1978). This soil typically formed in sandy deposits and is characterized by zero to two percent slopes. The soil consists of well drained soils that have a subsoil of silty sand.

Site Activities

The 19000 gallon tank which was closed during this project had been used to provide storage for denatured ethyl alcohol used in the manfacturing processes at this facility. Prior to closure, an inspection of the facility and sampling of the tank contents for an analytical baseline was conducted by E & K personnel on December 19, 1991.

On January 6, 1992 the tank was opened and the contents were pumped out into a semi-tanker. Color Photographs of the tank location in the facility and its proximity to other aboveground storage tanks in the plant are contained in Appendix 4.

The tank bed was located on the interior south side of the building (See Appendix 5, Site Map). After pumping the contents of the tank, which generated approximately 2500 gallons of liquid, E & K technicians using evacuator fans, ventilated the tank monitoring the lower explosive limit of the vapors. Ventilation was purformed prior to and during tank entry and cleaning. On January 7, 1992 the interior of the tank was inspected and physically cleaned by E & K Technicians. The tank was entered following E & K confined space entry safety procedures. The tank walls were drilled through and soil samples were taken with a stainless steel soil probe/trier. The soil was moist which indicated groundwater was present in the area of the tank. As required in ILHR 10 for tank closure in place, three soil samples were taken, one from each end of the tank and one from the center base of the tank. Additionally, a sample of the tank cleanout material which had been previously drummed was taken for waste disposal purposes. (See the Chain of Custody in Appendix 3.) During inspection, the tank walls were found to be very corroded and slight seepage of groundwater into the tank was observed. E & K technicians sealed the seeping areas of the tank walls with "GAP SEAL", an inert silicone patching compound, prior to the filling procedure. Once the tank was cleaned and samples were taken, preparations were made for filling the tank.

Samples were placed in a cooler and packed with ice for storage and transport to a WDNR Certified Laboratory. Due to the fact the tank was used to store denatured ethyl alcohol, no headspace samples were taken.

Soil and Waste Sampling Procedures

Soil samples were taken in native soil at the midpoint of the tank on each end and at the center base of the tank. The soil samples were placed into Teflon-capped glass jars and cooled by placing them in a cooler filled with ice. The soil samples were transported to E & K and subsequently shipped to ORTEK Environmental Laboratories, a Wisconsin-certified laboratory in Green Bay, Wisconsin.

Samples were handled according to EPA protocol, including chain-of-custody procedures. A copy of the chain-of-custody is included in Appendix 3. Sample results are included in Table 1. Additional sampling and analytical work was performed in order to facilitate disposal of the liquid and sludge which had been pumped out of the tank prior to cleaning and sampling. Since the material was an alcohol, disposal was sought at a waste water treatment plant. Green Bay

Metropolitan Sewage District approved disposal at their facility on the condition that the waste be diluted 10 to 1 prior to delivery at the facility.

Analytical Results

Analytical results for the samples are shown on Table 1. Sampling points are shown on the site map in Appendix 5.

Date Sampled	Sample Number	Description	Detection Limit	Conc. Detect.
12-19-91	EK8742	Alcohol Std.	800 mg/1 Ethnl	990,000 mg/1
12-19-91	EK8739	Tank Contents Ethnl & Water	1000mg/l Ethnl TRPH	180,000 mg/1 97.0 mg/1
12-19-91	EK8741	Field Blank	5.0 mg/1 Ethnl	ND
12-19-91	OFW	Trip Blank	5.0 mg/1 Ethnl	ND
01-07-92	EK8808	Soil-CTR	0.1mg/kg Ethnl	ND
01-07-92	EK8809	Soil-W	0.8mg/kg Ethnl	72 mg/kg
01-07-92	EK8810	Soil-E	0.5mg/kg Ethnl	12 mg/kg
01-07-92	EK8811	Tank Sludge	510mg/kg Ethnl	47,000 mg/kg
01-07-92	EK8811	Tank Sludge	Flash Point	>210 F
01-16-92	EK8831	Alcohol/Water Diluted 10-1 (SN: EK8739)	200 mg/l Ethnl 5 ug/l Benzene 5 ug/l E. Benz 5 ug/l Toluene 15 ug/l Xylenes	17,000 mg/1 ND ND ND ND
01-16-92	EK8832	Field Blank	5.0 mg/1 Ethnl	ND

Table 1
Analytical Results for Site
Heresite Protective Coatings, Inc. Manitowoc, Wisconsin

The results of the soil sample analysis, as shown on Table 1, indicate that there is denatured ethyl alcohol contamination in the soil at this tank site. Laboratory analysis report sheets are located in Appendix 6.

Disposal

Upon receipt of Disposal Approval at Green Bay Metropolitan Sewage District (GBMSD), all wastes generated during the tank cleaning process were transported under Straight Bills of Lading and disposed of at the GBMSD. Copies of the transportation documentation is located in Appendix 7.

Tank Closure Activities

Upon completion of tank cleaning and sampling operations, the tank was filled with sand as permitted by DILHR. Sand was blown into the tank via two inch discharge hoses from semi-trailers. The ends and sides of the tank were filled first and then the center of the tank was filled.

Conclusions

Denatured ethyl alcohol contamination was detected in the soil adjacent to the underground storage tank which was closed in place at this facility.

Recommendations

E & K Hazardous Waste Services, Inc. recommends that due to the fact that low levels of ethyl alcohol was detected in the soil and ethyl alcohol is easily degraded by microbial activity, no additional remedial activity is recommended at this site.

APPENDIX 1

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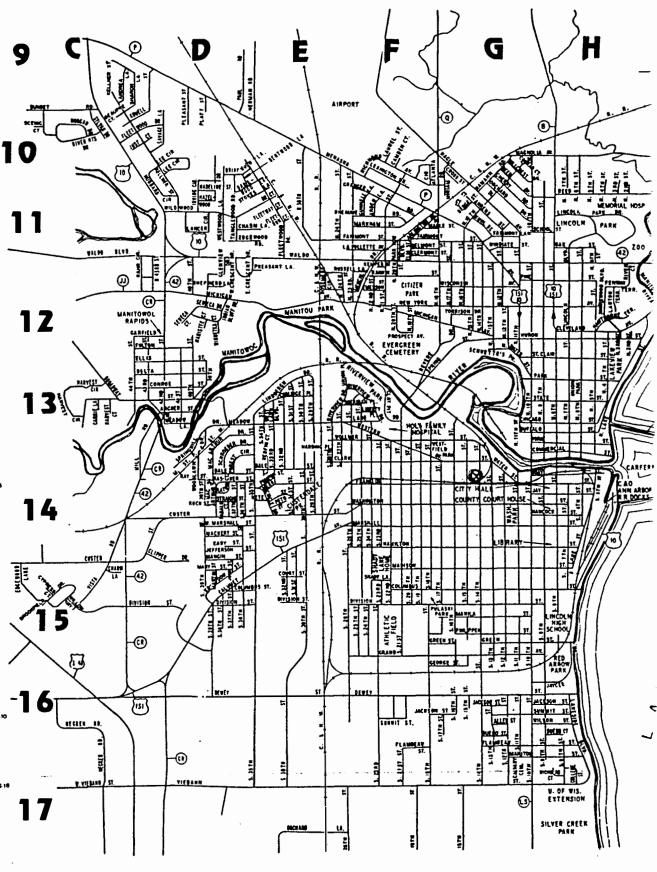
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City of Manitowoc and USDA Soils Maps

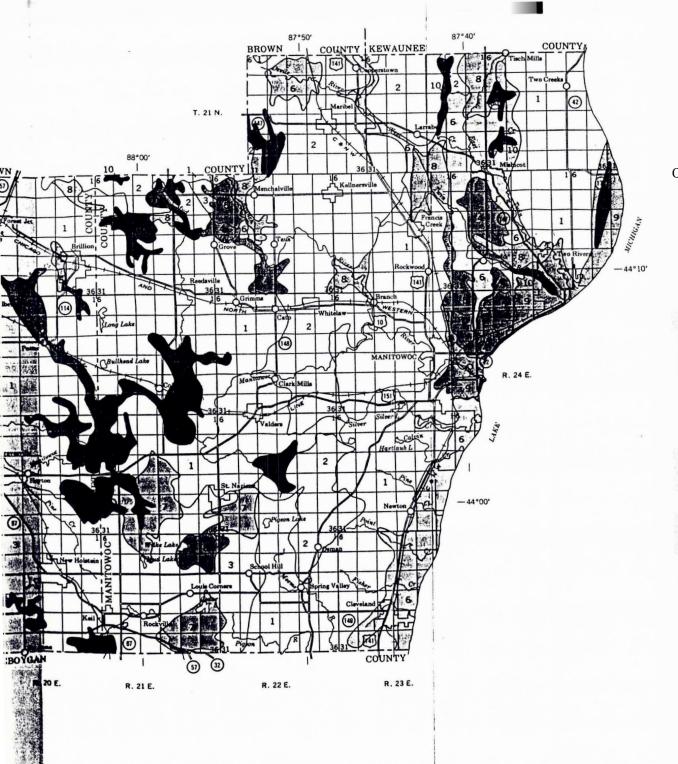
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MANITOWOC

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U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE RESEARCH DIVISION OF THE COLLEGE OF AGRICULTURAL AND LIFE SCIEN UNIVERSITY OF WISCONSIN

GENERAL SOIL MAP

CALUMET AND MANITOWOC COUNTIES, WISCONSIN

Scale 1:253.440 1 0 1 2 3 4 Miles

SOIL LEGEND



Channahon-Whalan-Kolberg: Gently sloping and sloping, well drained loamy soils that have a dolomite substratum

Compiled 1978

APPENDIX 2

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Tank Closure Forms & D.I.L.H.R. Correspondence

Wisconsin [Department of Industry,
Labor and H	luman Relations

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	ed By Sec. 102.14	2, Wis. Stats. T	elephone (608) 267-5280
Underground tanks in Wisconsin that Please see the reverse side for additio with at least 10 percent of its total vo each tank. Send each completed forr this tank by submitting a form?	nal information on this lume (included piping) l n to the agency designa YES	program. An unc ocated below gro ted in the top righ	derground storage ta bund level. A separa ht corner. Have you	ank is defined as any tank ate form is needed for previously registered
	Closed - Tank Removed	- •	ership Where Tank Lo	at Providing Fire Coverage cated:
3. 🙀 Abandoned No Product (empty)	 Closed - Filled With Inert Material Out of Service - Provide D 	(Indicate new (below) ate:		anitowoc FD.
A. IDENTIFICATION: (Please Print) 1. Tank Site Name	Site Add			Site Telephone No.
<u>Heresite Protective Coatin</u>	gs, Inc. 822			(414)684-6646
City 📋 Village	Town of:	State WI	Zip Code 54220	County Manitowoc
Manitowoc 2. Owner Name (mail sent here unless indica Somo	ted otherwise in #3 below)			s indicated otherwise in #3)
City Village	Town of:	State	Zip Code	County
3. Alternate Mailing Name If Different Than	#2	Alternate Mailing St	treet Address If Different	From #2
City Village	Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or yea	rs old) 5. Tank Capacity (ga 19,000	llons) 6. Tank Man Unknow	ufacturer's Name (if know 'N	wn)
B. TYPE OF USER (check one): 1. □ Gas Station 2. □ E 5. ☑ Industrial 6. □ C	Bulk Storage Government Other (specify):	3. 🔲 Utility 7. 🗌 School		Mercantile Residential
3. 🔲 Coated Steel 4. 🗌 8	Cathodically Protected and Coa Fiberglass Steel - Fiberglass Reinforced Pla	5.	Other (specify):	· · · ·
Approval: 1. 🗌 Nat'l Std. 2. 🗌 UL 3.			Is Tank Do	uble Walled? 🗌 Yes 🙀 No
	If yes, identify type:		Spill Conta	
Tank leak detection method: 1. Automat tightness testing 5. Interstitial monitor	ing 6. 💽 Notrequired at pr	esent 7. 🗌 Manu		ng 4. Inventory control and or tanks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. ☑ Bare Steel 2. □ Cathodically Protect 4. □ Fiberglass 5. □ Other (specify):			· · · ·	9. 🗌 Unknown
Piping System Type: 1. Pressurized piping 3. Suction piping with	with: A. 🗌 auto shutoff; B. 🗌 check valve at pump and insp		restrictor 2. 🗌 Suction	piping with check valve at tank
Piping leak detection method: used if pressuria 3.		Vapor monitoring Line Leak Detector	2. 🗌 Interstitial m 6. 🗌 Not Required	
Approval: 1. 🗌 Nat'l Std 2. 🗌 UL 🔤	8. 🗌 Other:		Double Walled	: 🛛 Yes 💭 No
E. TANK CONTENTS				
1. Diesel 2. D I		3. 🔲 Unleaded		
5. Gasohol 6. 0 9. Unknown 10. 1		7. 🗌 Empty 11. 🔲 Waste Oil		Sand/Gravel/Slurry Propane
13. D Chemical * Denatured -Ethan		14. C Kerosene		
* If # 13 is checked, indicate the chemical name		—		
If Tank Closed, Give Date (mo/day/yr):		Has a site assessme	nt been completed? (see	a reverse side for details)
01-08-92		1103 0 3100 0330331110	¥es ☐ No	
If installation of a new tank is being reported, i	ndicate who performed the ir	stallation inspection:		
1. 📋 Fire Department 2. 🔲		3. 🗌 Other (ider		
Name of Owner or Operator (please print):			Indicate Whether:	
<pre></pre>			··•• /	r 🗌 Operator
Signature of Owner or Operator:	A 1		Date Signed:	
× 1 home I fut	ste		<u>+ 5-13-9</u>	2

SBD-7437 (R. 12/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

CHECKLIST FOR UNDERGROUND

TANK CLOSURE

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

each	site	closu	ıre.	

Complete one form for

	DENTIFICATION: stallation Name	(Please Print)			2. Owner N	ame						
HERSSITS PROTECTIUE CONTINUES						RESTTE	Pa			A. A		
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3.	<u></u>								<u> </u>	<u> </u>		
<u>4.</u>		- <u> </u>										
5		<u> </u>						·				
6.								L				
Notific	ate which product b Waste oil; 13-Chemin ation was provided to al permits were obta	o the local autho	orities 15 days in	n advance o	of closure dat	te						
	k applicable box			tatements	in Section	ns B - E.				nover	Inspecto	
	EMPORARILY OU Product Removed	T OF SERVIC	E						<u>ve</u>	rified	Verified	1
١.	a. Product lines dra	ained into tank (d	or other contain	er) and resu	ulting liquid re	emoved AN	D				п	П
	b. All product remo										ă	ö
	c. All product remo								Ξ.	. =	ō	ō
	Fill pipe, gauge pip									/ 🗆 N		
	All product lines at										g	
	Dispensers/pumps Vent lines left open	•	locked and pow							И 🗌 N И 🔲 N		
	Written inspector a					••••••	••••	• • • • • •				U
•.	is effective until	·	-						ПΥ	и <u>П</u> и		
7.	Inventory form filed	by owner indica								/ 🗍 N	ō	ō
C. C	LOSURE BY REM	OVAL										
1.	Product from piping	drained into tai	nk (or other con	tainer).								
	Piping disconnected								ıD			
	3. All liquid and residue removed from tank using explosion proc									/ 🗆 N		
 All pump motors and suction hoses bonded to tank or otherwise grounded. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. 												
5.	NOTE: DROP TUE THE USE OF AN E	E SHOULD NO							. Ц1	(🗆 N		
	Vent lines left conne	ected until tanks										
	Tank openings tem											
	Tank atmosphere re Tank removed from								U Y	И П N		
10.	to prevent moveme								ים	И П N		

			Remover	Inspector	NA
		LOSURE BY REMOVAL (continued)	Verified	Verified	MA
	12.	Tank labeled in 2" high letters after removal but before being moved from site			
	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			Ō
	15.	Site security is provided while the excavation is open.			
D	. C	LOSURE IN PLACE			
	4	NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS.			
		Product from piping drained into tank (or other container). Piping disconnected from tank and capped or removed.			П
	3.	All liquid and residue removed from tank using explosion proof pumps or hand pumps	Μ Υ ΠΝ		
		All pump motors and suction hoses bonded to tank or otherwise grounded			Р
	J.	NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.			
		Vent lines left connected until tanks purged.			X
	7.	Tank openings temporarily plugged so vapors exit through vent		Ē	
		Openings cut in tank top if necessary to introduce inert material.		Ā	
	10.	Solid inert material (sand) cyclone boiler slag, pea gravel recommended) introduced and tank filled.		Ы	Н
	11.	Vent line disconnected or removed.			ŏ
_	12.	Inventory form filed by owner with Safety and Buildings Division indicating closure in place	N D V X		
E.		LOSURE ASSESSMENTS NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10. Individual conducting the assessment has a closure assessment plan (written) which		_	_
	2	is used as the basis for their work on the site		Ц	Ц
		Are there strong odors in the soils?			
		Was a field screening instrument used to pre-screen soil sample locations?		Н	Н
		Was a closure assessment omitted because of obvious contamination?		Ō	ŏ
	6.	Was the DNR notified of suspected or obvious contamination?			
	7	Agency and office contacted: Contamination suspected because of: Odor Soil Staining Free Product Sheen On Groundwa	ter 🗖 Field I	Instrument T	Test
-					
∎		ETHOD OF ACHIEVING 10% LEVEL DESCRIPTION			
	Ø	Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of	of 12 feet abo	ve around.	
		Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.		0	
	Dr	y ice			
		Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed or area. Dry ice evaporated before proceeding.	over the great	test possible	e tank
	Ine	ert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE.	THE TANK	MAY NOT	BE
		ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT			
		Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank			
	_	Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing	device grou	nded.	
	Ta	nk atmosphere monitored for flammable or combustible vapor levels.	monitored -		เสสเร
((H	Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained be			ladie
	J	ground.			
G	NC	DTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW			
Э.					

I. INSPECTOR INFORMATION

Inspector Name (print)

Inspector Signature

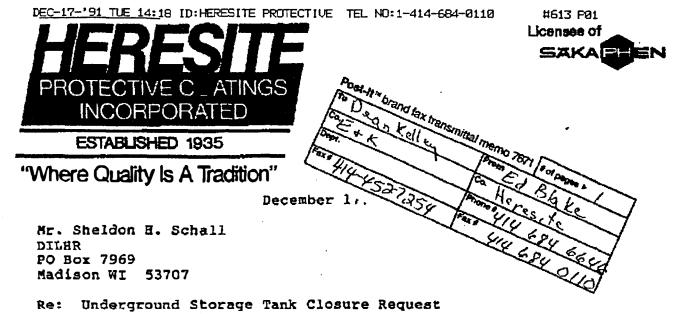
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Inspector Certification No.

FDID # For Location Where Inspection Performed Inspector Lelephone Number

Date Signed

SAFETY AND BUILDINGS



to Close in Place

Dear Chief Schall:

This letter is to notify you of our impending closure of two underground storage tanks at Heresite Protective Coatings, 822 South 14th Street, Manitowoc, Wisconsin. The tanks are 18,000 gallons in size and contain Denatured Ethyl Alcohol. Due to the undue hardship that removal of the tanks would create, we request authorization to close the tanks in place in accord with ILBR 10.732(2)(b).

We have retained the services of E & K Bazardous Waste Service, Inc., a licensed and insured tank removal contractor whose offices are located at 2905 Pain Avenue, Sheboygan, Wisconsin, to perform the necessary services.

E & K's certified peresonnel will perform the required site assessment and cleaning prior to closure of the tanks.

We will be substituting 320 gallon Stainless Steel Liqua-tainers (tote tanks) for storage of our Denatured Ethyl Alcohol. These tote tanks are D.O.T. 57 approved for the transportation of flammable materials. Our supplier has over 200 of these units currently in service. By scheduling weekly deliveries, we expect to have a maximum of three or four totes on hand at any one time. These totes will be stored in our warehouse that was previously declared as our flammable liquids storage area.

If you have any questions regarding the activities, please contact Dean Kelley, Project Manager at B & K at 414-458-6030 or me at 414-684-6646.

Regards,

HERESITE PROTECTIVE COATINGS, INC.

Thomas L. Fritzke

President

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 TWX: 910-260-2406 FAX: (414) 684-0110

TLF/slm

#445 P01

State of Wisconsin \ Department of Industry, Labor and Human Relations

201 E. Washington Avenue Madison, WI. 53702

FAX COVER SHEET

Press pen firmly when completing.

Date Sent: an TO: Venn Fax #:

Pages Sent (excluding this cover):

From: SHELDON SCHALL

Fire Protection Section

Fax #: 608 267-0592

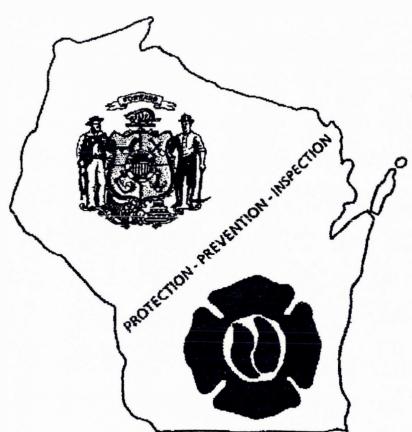
Voice #: 608 266-0956

Special Instructions (optional):

in stares 2000 of ETOH You Jourse men

If there mere any problems with the transmission or not all pages were received, please contact sender immediately at above voice telephone number.

ADM-8170 (N. 04/89)



STATE OF WISCONSIN Department of Industry, Labor & Human Relations "Fire Protection & Underground Storage Section Safety and Buildings Division (608) 265-0956

APPENDIX 3

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Chain of Custody

ESK HAZARDOUB WASTE SERVICES, INC. GENERAL HAULING, INC.

CHAIN OF CUSTODY RECORD

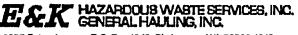
2905 Paine Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-6030 Fax (414)452-7254

2.

3.

4.

									70	ORT	EK	A
Sam	ect No	Site: _&	Hereste Protection 13,863 22 51457 manual Boyal S- / Ch		lengs 	Ana	lytical Paque					S. Part
Date	Time	Sample I.D.	Description				1. 3. S.	Source	Sample Procedure	Composit Of Grab	Prese	vation Method
1/2/91	3:20 Pm	8808	SOIL SAMPLE ET	D			1403	TANK Fill	TRYER	GRAD	PLACED	ON ICS@4:15
1/3/91	323 em	8809	SOIL SAMPLE				1-402	100	TRER	CRAB	11	//
7/91	3:25 PM	8810	SOIL SAMPLE	Ð			1-402 CL	TANK FILL	TREER	CRAB	11	/1
1/91	3:30 PM	8811	BROWN LIQUIA+ SC	иосе			I-GF A	2-0m	<u></u>	GRAB	<u> </u>	")
								Additio	-	gency Contactor Comments	ct #1-800-688-4005	
1	uom_	Gelberta	1-8-92	8:25 AL	-Je	inc	Hu	ty				



CHAIN OF CUSTODY RECORD

.

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

Clier Prole	nt: Set No		HERESITE PROT. 13,863	ECTIUS O	Cott	TN 6:	s	Analyti	cel Pieque	eted ///	· · · ·			Bal
Sam		Site: 🧟	22 S 14 ST DUANE S	MANITO	WOC	7					•			
Date	Time	Sample I.D.	Description		7	[.]			1.3 A.	Source	e Sample Procedure	Compo Of Grab	Preservatio	n Method
1/8/42	2:00	8811/	CLEAR LIG	<u></u>					2 AQT	TANKER	Carl	CRAB	on vie @	3:15
			·								. •			
			· .											
	Relinquist	1 il Land	Custody Date: 	Time	e:		Recei	ved by:	Gint	<u></u>	Additic	,		900-688-4005

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ESC GENERAL HAULING, INC.

CHAIN OF CUSTODY RECORD

10

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

				E ARUT.	Centr	NG	s				lytic /	el Reques		
•	ollog		13863 E F K					\neg		\mathbf{Y}	./			
Sam				у, Р.	DITTE	Pe	Line -	3/,	$\langle \rangle$	/	/			
Date	Time	Sample I.D.	Descri	iption		\mathbb{Z}	Ň	Ľ	\square	\square	\angle	A A A A		
Yill yez			F ALCON	, GROWNE tol MIXT		X	×					3	10 to 1 dilution of coliwasa surple Court HCE (pHZ)	
Y14/92	3:35	(3)3L	FIELD	BLANK		×	×					l	Field Blank Comp SAME	
														-
						<u> </u>	ļ							
L	l	1	. I	Custody	Trans	fer	S	I	l	I	I	J	Emergency Contact #1-800-688-40	05
Relinquished by: Date: Time: Received by: Additional Comments: 1. <u>Alcan Kelley</u> <u>1-16-93</u> <u>3:50 pm Advice thinty</u> <u>Per Standard attached for Ethonol</u>														
1	flan	<u>, und</u>	<u>.</u>	1 <u>-16-92</u>	5:5	p	n	10	N	<u>c</u>	19	<u>ur</u> (1 Ver standard attached to cie of	••••••
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4		<u></u>												

APPENDIX 4

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Color Photographs of Site

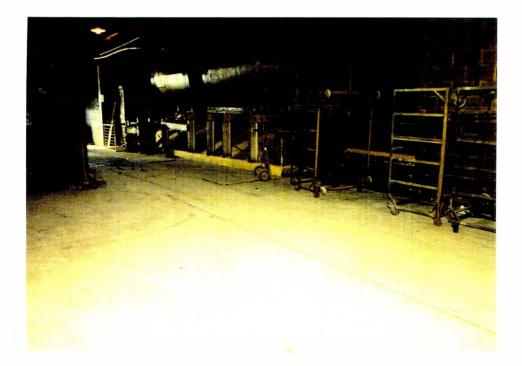


Photo Number 1 Date 01-06-92

Description: Denatured Ethanol UST Tank located under concrete floor between processing oven and aboveground paraformaldehyde storage tanks. Photo taken facing west.



Photo Number 2 Date 01-06-92

Description: Facing east over the UST tank bed.

E&K Hazardous Waste Services, Inc. Project No. 13863 Dean M. Kelley Project Manager Customer: Heresite Protective Coatings, Inc.



Photo Number 3 Date 01-06-92

Description: Exposure of Top of Tank showing entry manhole through which tank cleaning and filling with sand occured.

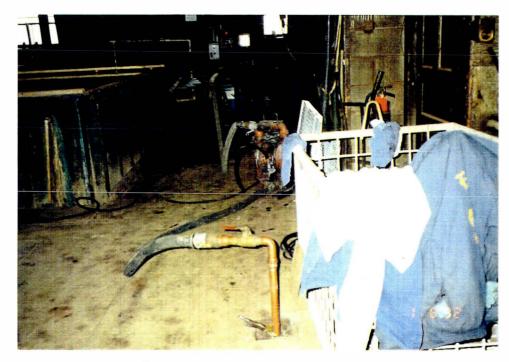


Photo Number 4

Date 01-06-92

Description: Pumping contents of the tank prior to entry, cleaning and closure in-place.

E&K Hazardous Waste Scrvices, Inc. Project No. 13863 Dean M. Kelley Project Manager Customer: Dico, Inc. APPENDIX 5

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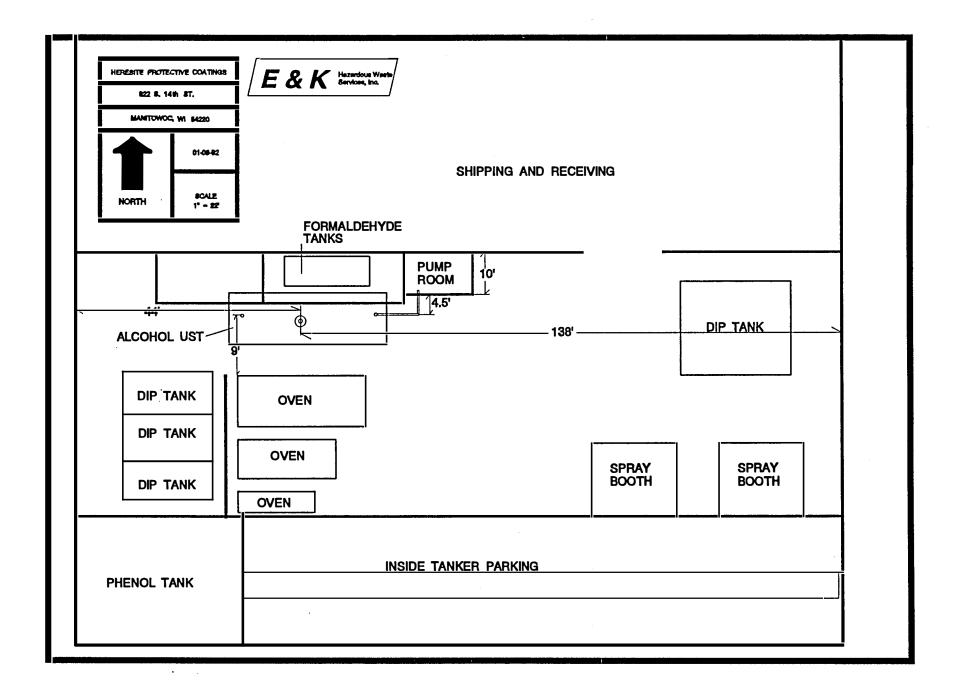
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Site Map



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Appendix 6

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Laboratory Analytical

ENVIRONMENTAL LABORATORY		
2496 West Mason Street	P.O. Box 12435	

13863/DK 1.14-92

414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249

JANICE HINTZ

(414) 458-6030

Wisconsin Certification No. 405099530

Sample ID: EK8742 Sample Desc: ALCOHOL STD Date Collected: 12/19/91 Date Received: 12/20/91 Job #: 13863

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	800	990,0 00

ND = Not Detected

ATTENTION: TELEPHONE:

Comments: Lab Sample ID: 9112206 - 121370 Date Analyzed: 01/03/92 Analyzed by GC-FID Headspace Technique. Concentration greater than theoretical but since it was for confirmation only it was not retested at a greater dilution.

Signed:

Date: 1-7-72



.

13863/2 1-10-92

414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

P.O. Box 12435

- SAMPLE ANALYSIS REPORT -

To: E & K HAZARDOUS 2905 PAINE AVE P O BOX 1249 SHEBOYGAN WI 53082-1249

Attn: JANICE HINTZ

Batch ID : 9112200 Our lab # : 121348 Your sample ID: EK-8739 Sample Matrix : WATER

Report Date: 01/07/92

COLLECTION INFORMATION

Date/Time/By: 12/19/91 DG/CT Location : 13863-HERESITE

Lab#		Result Units
	Total Recoverable Petrol Hydrocarbons	· · · · · · · · · · · · · · · · · · ·

1A Signed

92 Date _ Date

Signed

	R 1	IE	Κ	
ENVIRONMENTAL LABORATORY				
2496 West Mason Street				

 414-498-2222 FAX: 414-498-4067

P.O. Box 12435

Green Bay, WI 54307-2435

CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249

JANICE HINTZ

TELEPHONE: (414) 458-6030

Wisconsin Certification No. 405099530

Sample ID: EK8739 Sample Desc: GROUNDWATER Date Collected: 12/19/91 Date Received: 12/20/91 Job #: 13863

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	1000	180,000
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ND = Not Detected

Comments: Lab Sample ID: 9112200 - 121348 Date Analyzed: 01/03/92 & 01/06/92 Analyzed by GC-FID Headspace Technique.

Signed:

the

Date: <u>1-7-92</u>



414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249

JANICE HINTZ

TELEPHONE: (414) 458-6030

Wisconsin Certification No. 405099530

Sample ID: EK8741 Sample Desc: FIELD BLANK Date Collected: 12/19/91 Date Received: 12/20/91 Job #: 13863

ETHANOL ANALYSIS

P.O. Box 12435

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	5.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9112200 - 121349 Date Analyzed: 01/03/92 Analyzed by GC-FID Headspace Technique.

he Signed:

Date: 1-7-97



414-498-2222 FAX: 414-498-4067

P.O. Box 12435

Green Bay, WI 54307-2435

CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249

TELEPHONE: (414) 458-6030

JANICE HINTZ

Wisconsin Certification No. 405099530

Sample ID: TRIP BLANK Sample Desc: OFW Date Collected: 12/19/91 Date Received: 12/20/91 Job **#:** 13863

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	5.0	ND
		ی بی بی بی در بند مند بی بی بی بی بی بی مند

ND = Not Detected

Comments: Lab Sample ID: 9112200 - 121350 Date Analyzed: 01/03/92 Analyzed by GC-FID Headspace Technique.

Signed: A-bhl

Date: 1-7-97

AD'	Τςι	12865707
	AL LABORATORY	414-498-2222 FAX: 414-498-4067
2496 West Maso	n Street P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: ADDRESS:	E & K HAZARDOUS 2905 PAINE AVENUE	Wisconsin Certification No. 405099530
	P O BOX 1249 SHEBOYGAN WI 53082-1249	Sample ID: EK8808

Sample Desc: SOIL - CTR Date Collected: 01/07/92 Date Received: 01/09/92 Job #: 13863/HERESITE PROTECTIVE COATING

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	<i>i</i>	CONCENTRATION mg/kg
Ethanol	0.1		ND

ND = Not Detected

ATTENTION: JANICE HINTZ

TELEPHONE: (414) 458-6030

Lab Sample ID: 9201044 - 121730 Comments: Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

D-the Signed:

Date: /- 22-92

1.3K1,3/DK

ENVIRONMENTAL LABORATORY	13863/05 1-28-92 414-498-2222 FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: 2905 PAINE AVENUE P O BOX 1249	Wisconsin Certification No. 405099530
SHEBOYGAN WI 53082-1249	Sample ID: EK8809 Sample Desc: SOIL - W
ATTENTION: JANICE HINTZ	Date Collected: 01/07/92
TELEPHONE: (414) 458-6030	Date Received: 01/09/92 Job #: 13863/HERESITE PROTECTIVE COATING

ETHANOL ANALYSIS

PARAMETER 	DETECTION LIMIT	CONCENTRATION mg/kg
Ethanol	0.8	72

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121731 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

ENVIRONMENTAL LABORATORY	13863/DK 1-28-91 414-498-2222 FAX: 414-498-4067
2496 West Mason Street P.O. I	Sox 12435 Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: 2905 PAINE AVENUE P O BOX 1249	Wisconsin Certification No. 405099530
SHEBOYGAN WI 53082-12	49 Sample ID: EK8810 Sample Desc: SOIL - E

ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-6030 Sample ID: EK8810 Sample Desc: SOIL - E Date Collected: 01/07/92 Date Received: 01/09/92 Job #: 13863/HERESITE PROTECTIVE COATING

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg
Ethanol	.5	12

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121732 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

D. the • Signed:

Date: <u>1-22-92</u>

ΘR^{-}	ТЕК
ENVIRONMENT	AL LABORATORY
2496 West Mason	Street

P.O. Box 12435

13863/ DK 128-92

414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

CLIENT: E & K HAZARDOUS ADDRESS: 2905 PAINE AVENUE P O BOX 1249 SHEBOYGAN WI 53082-1249

JANICE HINTZ

TELEPHONE: (414) 458-6030

Wisconsin Certification No. 405099530

Sample ID: EK8811 Sample Desc: BROWN LIQUID & SLUDGE Date Collected: 01/07/92 Date Received: 01/09/92 Job #: 13863/HERESITE PROTECTIVE COATING

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg
Ethanol	510	47,000

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121733 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

11

Date: 1-22-92



414-498-2222 FAX: 414-498-4067

P.O. Box 12435

Green Bay, WI 54307-2435

E & K HAZARDOUS CLIENT: ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249

JANICE HINTZ

TELEPHONE: (414) 458-6030

Wisconsin Certification No. 405099530

Sample ID: EK8811 Sample Desc: BROWN LIQUID & SLUDGE Date Collected: 01/07/92 Date Received: 01/09/92 Job **#:** 13863

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION ug/l
Benzene	10	ND
Ethylbenzene	10	210 Paz
Toluene	10	1400 ^E S
Total Xylenes	30	۶ 960 و 2

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121733 Date Analyzed: 01/14/92 & 01/15/92 Analyzed by GC Method 8020. . .

Signed: Doll

Date: 1-2782



111 198 2222 TAX: 111 498 1957

CIEEN BAY, WL. 94102.4419

P.U. B81 12435

- SAMPLE ANALYSIS REPORT -

TO: E & K HAZARDOUS 2905 PAINE AVENUE PO BOX 1249 SHEBOYGAN WI 53082-1249

ATTN: JANICE HINTZ

Batch ID:9201044Report Date:01/30/92Our Lab #:121733Your Sample ID:SAMPLE-8811Sample Matrix:BROWN LIQUID AND SLUDGE

COLLECTION INFORMATION

Date/Time/By: 01/07/92 15:30 BS/CE Location: HERESITE 13863

Lab#	Test		esult Units
		>	

11 Signed! Signed:

Date:	2-14-72
Date:	

Revision, 02/14/92, vrg



ATTENTION: JANICE HINTZ

TELEPHONE: (414) 458-6030

414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

P.O. Box 12435

Wisconsin Certification No.

CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249 Wisconsin Certification No. 405099530

Sample ID: 8832 (2) FIELD BLANK Sample Desc: GW Date Collected: 01/16/92 Date Received: 01/18/92 Job #: 13863

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	5.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9201123 - 122086 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

the

Date: 1-22-92

ORTEK	13863/DK 1-28-92
	414-498-2222
ENVIRONMENTAL LABORATORY	FAX: 414-498-4067 D. Box 12435 Green Bay, W1 54307-2435
2496 West Mason Street P.C	
CLIENT: E & K HAZARDOUS	Wisconsin Certification No.
ADDRESS: 2905 PAINE AVE	405099530
SHEBOYGAN WI 53082-	1249
,	Sample ID: 8832
	Sample Desc: FIELD BLANK
ATTENTION: JANICE HINTZ	Date Collected: 01/16/92
TELEPHONE: (414) 458-6030	Date Received: 01/18/92
	Job #: 13863/HERESITE PRO.COAT

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION ug/l
Benzene	1.0	ND
Ethylbenzene	1.0	3.3
Toluene	1.0	4.7
Total Xylenes	3.0	11

ND = Not Detected

Comments: Lab Sample ID: 9201123 - 122086 Date Analyzed: 01/20/92 Analyzed by GC Method 8020.

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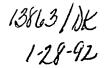
Signed:

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Defl ÷.... .

Date: 1-27-92

Quer. 20132



ENVIRONMENTAL LABORATORY	414-498-2222 FAX: 414-498-4067
2496 West Mason Street	P.O. Box 12435 Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: 2905 PAINE AVE SHEBOYGAN WI 530	
	Sample ID: 8831 Sample Desc: DILUTED WATER & ALCOHOL MIXTURE
ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-6030	Date Collected: 01/16/92 Date Received: 01/18/92 Job #: 13863/HERESITE PRO.COAT

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION ug/l
Benzene	5.0	ND
Ethylbenzene	5.0	ND
Toluene	5.0	ND
Total Xylenes	15	ND

ND = Not Detected

Comments: Lab Sample ID: 9201123 - 122085 Date Analyzed: 01/20/92 & 01/21/95 Analyzed by GC Method 8020. Contains High Levels of Non-Target Compounds

Signed: D-Chan

Date: 1-27-92



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ATTENTION: JANICE HINTZ

TELEPHONE: (414) 458-6030

414-498-2222 FAX: 414-498-4067

Green Bay, WI 54307-2435

E & K HAZARDOUS CLIENT: ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249

Wisconsin Certification No. 405099530

Sample ID: 8831 (1A, 1B, 1C) Sample Desc: DILUTED GW & ALCOHOL MIXTURE Date Collected: 01/16/92 . Date Received: 01/18/92 Job #: 13863

ETHANOL ANALYSIS

P.O. Box 12435

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	200	17,000

ND = Not Detected

Lab Sample ID: 9201123 - 122085 Date Analyzed: 01/20/92 Comments: Analyzed by GC-FID Headspace Technique.

Signed:

D-the Date: 1-22-92



Appendix 7

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Transportation Documentation

ALTERNATE STF	RAIGHT BILL OF LADI	NG-SHORT FORM		Shipper	No	·····
ິ Shipping Order Copy		92		Carrier	No	
	K Gentrea		ENC	Date		-
TO: GREENBAY M	ETROPULITAN)	FROM	-DESITE	Por	TINE COM	uks Tar
Consignee StwacsE Street 2231/N. G Destination GRIEN BAN	MINCY	Street &	bzz S	14	TH ST	INGS, INC
Destination GRIEN BAY	1 UL Zip Code 5	4307 Origin Mi	INITOWO	<u>ر</u>	WI Zip Co	xde.54220
Houte:	/ · · · · · · · · · · · · · · · · · · ·	/			cle No.	
Units	Kind of Packaging, Description Special Marks and Exce	ptions	(Su	Veight Ibject to rection)	RATE	CHARGES
(NON-REGULAT	z=S_WASTEWATE	- & ALCOHOL	<u>.</u>			
450 GALLONS						
·	learner	11-1001 2				<u> </u>
	TRAKET	# 13863	[<u> </u>
	· · · ·					1
						Tago
REMIT C.O.D. TO: ADDRESS	COD Amt: S	C.O.D. FEE: PREPAID D COLLECT D	<u> </u>		AL S	
Note-Where the rate is dependent on required to state specifically in writing the agr of the property. The agreed or declared value of the property stated by the shipper to be not exceeding	value, shippers are Subject to Se end or declared value delivered to the signor shall sign is hereby specifically The carrier sl	ection 7 of the conditions, if this shi consignee without recourse on the cor the following statement. half not make delivery of this shipme and all other charges.	nsignor, the con-	f heck Approp	FREIGHT CHARG priate Box:	
\$ per		(Signature of Consignor.)	[Freight	prepaid	Collect
RECEIVED, subject to the classifications and b	wfully filed tariffs in effect on the date of		rty described above in a	apparent good or	der, except as noted fC	unit for and condition of
contents of packages unknowni, marked, consigne proverty under the contract lagrers to carry to its any of, saidproperty over all or any portion of said terms and conditions in the governing classificatio Shipperhereby certifies that he is foundar with	usual place of delivery at said destination, if bute to destination and as to each party at a in on the date of shipment.	on its mute, otherwise to deliver to anot any time interested in all or any of said pro	hercarrier on the route operty, that every servic	to saiddestinati Is to be performer	n. It is mutually agreed a d hereinder shall be sub	is to each carrier of all or ject trialithe bill of Indian
assigns.	mone cardina and recently and constants in the				on your support and act	Advectory on the state of the
SHIPPER CUT A	1231	CARRIER PER			Z	1
PER V+ TOPS ♥ FORM № 3841 .	()			DAT		
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	ALTERNATE STRAIGHT BILL OF LADING—SH	ort form	Shipper	• No	
Shipping	Order Copy		Carrier	No	
	E &K GONERAL HALL (Name of Carr	ING, INC	Date	2/25/	72
TO: Consigned Street Destination Route:	GREENBAY VETRO SOWAGE DISTRICT 2231 N. QUINCY OFFICEN BAY, WI Zip Code 54307	FROM: Shipper Heresin Street BZZ Origin MANIT	WOC U	14 ST	65, INC. 0de 54220
No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions		Weight (Subject to Correction)	RATE	CHARGES
ARA	NON-REGULATED WASTEWATER & ALCO	HoL			
	GALLONS PROJECT = 3	863			
required to ste of the property	ate specifically in writing the agreed or declared value delivered to the consignee withor y. signor shall sign the following s	•	be on- Check Appro	RGES:	SES
stated by the s	shipper to be not exceeding pert of freight and all other of	following of this shipment without p virges. « e of Consignor.)		prepaid	Collect
contents of pac property under any of, said prop terms and cond	subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this stages unknown), marked, consigned, and destined as indicated above which said carrier(the wi the contract lagrees to carry to its usual place of delivery at said destination, if on its route, oth per typer all or any portion of <u>said route</u> to destination and as the ach party at any time interest thisms in the governing classification on the date of shipment. thy cartifies that he is familiar with all the bill of lading terms and conditions in the governing classification of the said of the said conditions in the governing classification of the said the said conditions in the governing classification of the said the said classification of the said terms and conditions in the governing classification of the said the said terms and conditions in the governing classification of the said terms and conditions in the governing classification of the said terms and conditions in the governing classification on the date of said terms and conditions in the governing classification of the said terms and conditions in the governing classification of the said terms and conditions in the governing classification of the said terms and conditions in the governing classification of the said terms and terms and the said terms and terms and the said terms and terms and terms and the said terms and terms and the said terms and the said terms and t	ord carrier being understood throughc erwise Lo deliver to annther carrier on ad in all or any of said property, that ev	out this contract as meanin the route to said destinatio ery service to be performed	ig any person urcorpor n. It is mutually agreed I hereunder shall be sul	ation in possession of the as to each carrier of all on nject to all the bill of lading

HIPPER	CARRIER	10001
ER	PER	DATE 2/28/92
OPS P FORM No. 3841		

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			HORT FORM		Shij	oper 190	
ping Order Copy						rier No	
	EXKG	Name of Ca	uling,	JUC.	Dat	e_ <u></u> 3-	12.92
: GREEN BAY nsignee Sewage	- DISTRICT	:	FROM: Shipper	CARSIT	F PROT	CTIVE CON	TINGS, IM
eet 2231	N QUINCY		I Street	22-2 1		57	
stination GREEN BAY	· WI	Zip Code 54307	Origin M	ANITOP	UDC, WI	- Zip	Code 54220
ute:					\	/ehicleNo.	
No. pping nits /	Special Ma	ng, Description of Artic arks and Exceptions	•		Weight (Subject to Correction	RATE	CHARGES
NON-REC	SULATED W	ASTEWATER &	ALCOHOL				<u></u>
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GALLON		· · · · · · · · · · · · · · · · ·	· ·				· · ·
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/		PROJECT	13863				
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AIT D. TO: DRESS	COD An	nt: S	C.O.D. FEE: PREPAID D COLLECT D	\$	1	TOTAL \$ CHARGES:	
red to state specifically in Writing t property. agreed or declared value of the pr d by the shipper to be not excluding per	roperty is hereby specifically	signor shall sign the followin The carrier shall not mak ment of freight and all other	g statement, e delivery of this shipn • charges.	-	Bay-	propriate Box: light prepaid	Collect
CFIVED, subject to the classification	ns and lawfully Died tariffs in eff		ure of Consignor.) his Bill of Lading, the oro	pertydescribe	above in apparent o	ood order, except as not	ed (contents and condition
nts nl packages unknown), maried, cc rty under the contract) agrees to carr , said property over all or any portion o , and c. nditions in the governing clas pper hereby certifies that he is familia 19.	ry to its usual place of delivery at of saidr-ute to destination and a ssification on the date of sbjpmi ar with all the bill of lading terms	: said destination, if on its route, c as to each party at any time inter ent.	therwise to deliver to an ested in all or any of said p	other carrier on riperty, that ev I terms and cor	the route to said des very service to be peri iditions are hereby ag	tination. It is mutually agr formed hereunder shall be	eed as to each camefof all subject to all the bill of ladi
	magaz		CARRIER	_Vm			
<u>~~~~</u> Y	nong-		PEH	·	<u> </u>		12-74
5 9 FORM No. 3841	<i>v</i>			· • •			LITHO. in U.S.A.
	luerga	· · · · · · · · · · · · · · · · · · ·	CARRIER PER	Von	Jung	DATE 3-	

	ALTERNATE STR	KAIGHT BILL	UF LADING-SH		Shippe	er No	······
Shippina (Order Copy				Carrie	r No	
		EXK Go	NERAL HAULI	NG INC	Date_		-92
	-	100×10	NERAL HAULII	rier)			
TO: Consignee	GREENBAY U	•	Siwace DISTRICT	FROM:	PENTECTIVA	E COATINGS	, the
Street	2231 N	QUINCY			S 14 TH	ST	
Destinatio	ON GREENBAY	WI	Zip Code 54 307	Origin MANIT	uwoc, 1	· · · · · · · · · · · · · · · · · · ·	ode 54220
Route:			•			nicle No.	
No. Shipping Units			ng, Description of Article arks and Exceptions	!S	Weight (Subject to Correction)	RATE	CHARGES
	NON- REGU	47.5 11	JASTE WATER	the second			
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remit C.O.D. To: Address		COO Ar	mt: \$	C.O.D. FEE: PREPAID		TAL \$ ARGES:	_
	ne the rate is dependent on Ite specifically in writing the agr			e conditions, if this shipment is to out recourse on the consignor, the		FREIGHT CHARG	ES
of t e property			signor shall sign the following	statement.	Check Appr	opriate Box:	
	shipper to be not exceeding	is nei en specifica in	ment of freight and all other c	délivery of this shipment without harges.		•id	
\$	per	•	(Signatur	e of Consignor.)	L Freigh	it prepaid	
contents of pack property under t any of, saidprop terms and cood	kages unknown), marked, consigne the contract) agrees to carry to its erty over all or any portion of said n itions in the governing classificatio	d, and destined as indici usual place of delivery a pute to destination and on on the date of shipm	If ect on the date of the issue of this ated above which said partier (the w it said destination, if on its route, of as to eccupie in a tray time interes pent.	s Bill of Lading, the property describe nord carrier being understood through nerwise to deliver to another carrier o feitin all or fingol said pro	nout this contract as mean In the route to Said destina every service tobe perform	ning any person or corpora Lion. It is mutually agreed a ned hore under shall be suc	tion in possession of the is to Pach carrier of all or pot to all the bill of lading
SHIPPER	ERKA				K		
PER	- Don Jun	Y		~	DA DA	TE 3-/	8-92
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ALTERNATE STRAIGHT BI	ILL OF LADING—SH	IORT FORM	Shipper	- No	
Shipping Order Copy			Carrier	No	·····
EAK	GENTEAL HANK	LING. INC	Date	3-26	-92_
TO: GREENBAY METROPOLI Consignee Sewage D	TAN ISTRICT	FROM: Shipper H-RESIT	PROTECTIVE	COATING	s, IINC.
Destination GREEN BAY WI	ulca .	Street 872	woc, w	H ST DI Zip C cle No.	ode 54220
Units Special	aging, Description of Article Marks and Exceptions		Weight (Subject to Correction)	RATE	CHARGES
NON - REGULATED 350 GALLONS	WASTEWATER	- F. ALCOHOL			
	floster.	4_13863_			-
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REMIT C.O.D. TO: ADDRESS COD	Amt: \$	C.O.D. FEE: PREPAID D COLLECT D \$	тот сна	AL \$ ARGES:	۱.
Note Where the rate is dependent on value, shippers' required to state specifically in writing the agreed of declared vi of the projecty. The agreed or declared value of the property is hereby specific stated by the shipper to be not exceeding \$perper	alue delivered to the consignre with signor shall sign the following	delivery of this shipment without	con- Check Approj	FREIGHT CHAR priate Box: prepaid	GES
RECEIVED, subject to the classifications and lawfully filed tariffs	•	e of Consignor.) s Bill of Lading, the property describe	dabove in apparent cood or	rder, except as noted (contents and condition of
contents of Packages unknown), marked, consigned, and destined as in		• • • •	•••••		

contents of packages unknown, marked, consigned, and destined as indicated above which said carrier the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract lagrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to annther carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any privation of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed here unknews shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	()	EtK	_	CARRIER	$\wedge \wedge$	1 /
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ALTERNATE STRAIGHT BIL	L OF LADING—SH	ort form	Sh	ipper No	
Shipping Order Copy	UNEAL HAULIN	G . D.K.	Ca Da	rrier No te	192
TO: GREEN BAY METROPOLITAN Consignee SEWAGE DISTRICT Street 2231 N Qu Destination GREEN BAY, WI Route:	Zip Code <u>54</u> 507	FROM: Shipper HERESITE Street 822 S Origin MANITOW	oc, q		Dode 5 9 220
	ing, Description of Article Marks and Exceptions ASTE WATLE &		Weight (Subject) Correctio	to RATE	CHARGES
300-GALLONS	PROJECT # 1.	3863			
REMIT C.O.D. TO:	· · · · · · · · · · · · · · · · · · ·			TOTAL \$	
Note—Where the rate is dependent on value, shippers an required to state specifically in writing the agreed or declared valu of the property. The agreed or declared value of the property is hereby specificall stated by the shipper to be not exceeding	e delivered to the consignee with signor shall sign the following	CULLECI conditions, if this shipment is to be out recourse on the consignor, the con- statement. delivery of this shipment without pay	. Check A	CHARGES: FREIGHT CHAR Appropriate Box: reight prepaid	IGES
S per	If ect on the date of the issue of this cated above which said carrier (the at said destination, if on its mute, oth 1 as to each part yat any time interest ment.	ord carrier being underst.ood throughout erwise to deliver to another carrier on the ted in all or any of said property, that every	pove in apparent this contract as route to said de y service to be pe	ignod order, except as noted s meaning any personne corp estination. It is mutually agree enformed hereunder shall be s	fcontents and condition of pration in possession of the d as to each carrier of all or ubject to all the bill of lading

SHIPPER		CARRIER		
PER		PER	DATE	
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ALTERNATE STRAIGHT BILL OF LADING-SHO	ORT FORM	Shipper No.	
Shipping Order Copy Hg Z		Carrier No.	
EAK General they	UNG THE	Date	
(Name of Carr		Uate	
TO: GREEN BAY METROPOLITAN Consignee SEWAGE SISTRICT	FROM: Shinner Urgr Sur	- Annon 1	- COATING, INC.
	Street 822 S.	14 TH S	
Destination GREEN BAY, WI Zip Code 54-307	Origin MANMOWO		Zip Code 54220
Róute:		Vehicle N	
No. Shipping Units No. Shipping Special Marks and Exceptions	3	Weight (Subject to Correction)	RATE CHARGES
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REMIT C.O.D. TO: ADDRESS COD Amt: \$	C.O.D. FEE: PREPAID D COLLECT D	TOTAL CHARGE	\$ S:
required to state specifically in writing the agreed or declared value delivered to the consignee witho of the property.	elivery of this shipment without pay-	FREIC Check Appropriate	GHT CHARGES e Box:
\$per	-	Freight prep	aid Collect
RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this	e of Consignor.) Bill of Lading the property described abo	l	cent as poted (contents and coordition of

contents of packages unknowni, marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any persons corporation in possession of the property unifer the contract) agrees to carry to its usual place of delivery at said destination. If on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property, over all or any purtien of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certilies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER		CARRIER		
PER		PER	DATE	4-07-92
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TO: GREENBAY MET Consignee SEWAGE Street ZZ3/ M Destination GREENBAY Route:		n of Articles ptions EWATER & ALCOH	/C. Date	BATE	54220
TO: GREENBAY MET Consignee SEWAGE Street Z231 M Destination GREENBAY Route: No. Shipping Units NON - REG	Kind of Packaging, Description Special Marks and Exception WATED WAST	FROM: Shipper Herer Street 827 Origin MANI n of Articles ptions EWATER & ALCOM	SITE PROTEC S 147 TO WOC TO WOC Veight (Subject to	TIVE COATING TH ST WI Zip Cod ehicle No.	55,_ <i>tuc</i> 10:54220
TO: GREENBAY MET Consignee SEWAGE Street Z231 M Destination GREENBAY Route: No. Shipping Units NON - REG	Kind of Packaging, Description Special Marks and Exception WATED WAST	FROM: Shipper Herer Street 827 Origin MANI n of Articles ptions EWATER & ALCOM	SITE PROTEC S 147 TO WOC TO WOC Veight (Subject to	BATE	
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Shipping Units NON - REG	Kind of Packaging, Description Special Marks and Exce GULATED WASTE	n of Articles ptions EWATER & ALCOH	(Subject to	BATE	
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165 GALLONS		•			
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REMIT	<i>!</i> //	C.O.D. FEE:	·		
C.O.D. TO: ADDRESS	COD Amt: \$			IOTAL SCHARGES:	
of the property. The agreed or declared value of the property is stated by the shipper to be not exceeding \$perper	is hereby specifically The carrier sh	n the following statement. hall not make delivery of this shipment wit and all other charges.	ithout pay-	propriate Box: ight prepaid	Collect
• pr		(Signature of Consignor.)			
RECEIVED, subject to the classifications and la contexts of packages unknown), marked, consigned, property under the contract lagrees to carry to its u any of, said property over all or any portion of saidro- terms and conditions in the governing classification Shippenhereby certifies that he is familiar with all assigns.	d, and destined as indicated above which sai usual place of delivery at said destination, if d pute to destination and as to each party at a on on the date of shipment.	id carrier (the word carrier being understood th on its route, otherwise to deliver to another car anytime interested in all or any of said property.	throughout this contract as m Irrier on the route to said dest I, that every service to be perfo	neaning any person or corporati ination. It is mutually agreed as prmed hereunder shall be subje	ion in possession of 1 to each carrier of al act to all the bill of lad
SHIPPER		CARRIEB, EX	FK HAUL		
PER		PER	Meiles	DATE 4.23.92	-
TOPS 🚭 FORM No. 3841	\bigcirc		\bigcirc	Ln	THO. in U.S.A.
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BADGER M	BILL OF LADING-SHORT FORM-Original-Not Negotiable the classifications & tariffs in effect on the date of issue of this Original Bill of Lading. NING CORPORATION, SHIPPER (297, Fairwater, Wisconsin 53931 "An Innovative Company Providing- Dependable Service and Quality"		54984
	Fairwater DATE Jan 8 19 92		
understood throughou another carrier on the property, that every ser rail or a rail-water ship	d below, in apparant good order, except as noted (contents and condition of contents of packages unknown), marked, or t this contract as meaning any person or corporation in pomeraion of the property under the contract) agrees to carry to route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of sai trice to be performed hereunder thall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading ment, or (2) in the applicable motor carrier classification or tariff this is a motor carrier shipment. Shipper hereby certi se on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and his assigns.	o its usual place of deimery at said destina d route to destination, and at to each party sat forth (1) in Uniform Freight Classifica fies that he is familiar with all the ter and the said terms and conditions ar	tion, if on its route, otherwise to deliver to r at any time interested in all or any of said tion in effect on the date hereof, if this is a ms and conditions of the said bill of
Consigned to	E & K to Heresite Protective Coating		/
Destination	Manitowoc State of WI.		
Route	Troctor No. 592	····	·
Delivering Ca	rrier <u>BMC</u> Troilor No		
No. Packages	DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	SHIPPER'S WEIGHT	Subject to Section 7 of conditions of applicable bill of lading, if this ablument is to be delivered to the
	T-L Grade TANK FILL GROSS	79500	Subject to Fection 7 of conditions of applicable bill of Indians If this antiment is a he delivered to the constract whose or antimers and the constract whose or antimers and the the following relevants the following relevants in the the relevant shifts and make delivery
	Bags TARE	27300	of this shipmest without payment of freight and sil other lawful charter. BADGER MINING CORP.
	Car # NET	52200	
	Special Instructions:		(Signature of Consignor)
	In:	26 TON	write or stamp here, "To be Prepaid"
	Out:		
	Sample/Analysis Required THE LOADED WEIGI NOT EXCEED THE	IT OF THIS VEHICLE DOES LICENSED LIMIT.	Received \$ to apply in prepayment of the charges on the property described hereon,
	Weighmaster's Signature KLALL	···· · · · · · · · · · · · · · · · · ·	
	Tank # Driver's Signature	Kins	Agent or Cashier
	ed for this shipment conform to the specifications set forth in the hox maker's certificate thereon and all of I Classification." "Shipper's imprint in lieu of stamp; not a part of bill of Lading approved by the		The signature here acknowledges only the amount prepaid.
NOTE where the rate The agreed or decla	ves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is dependent on value, shippers are required to state specifically in writing the agreed or declared value of th red value of the property is hereby y the shipper to be not exceeding per	is "carrier's or shipper's weight." e property.	Charges Advanced:
BADGER MINING P. O. Box 97, Foi	CORP., SHIPPER invoter, WI 53931	Signature Allianc the	lita
. <i>•</i>	CONTAN CAUSE DISEASE AGENCY FVALUA (1991, T EXTERNA	WADDING PROUSTRIAL IS FREE SILCA. AVOID BREATHING DUST FROM FELATIO LUNG HAJATI GALCOSSI. EXCESSOR INHAI MCLIDING SILCOSSI. BACESSOR HAIAI NGTI RESEARCH ON CANCER HARD HAS EVALUA INGT IFE CANCERCENT <u>DISOURCE</u> WITH A HAT LIARRE S <u>SILCOST DISOURCE</u> WITH A	THIS PRODUCT, PROLONGED EXPOSURE MAY

INSPECTION REPORT

The undersigned, employ	red by	7	,
and operating vehicle/n			, does hereby
certify that he has the	roughly and complete	ely inspected and/or cleaned	as required the
payload area including	all hoses, product l	ines, tanks and related equi	.pment and certi -
fies that the same are	free of contaminants	; the undersigned does hereb	y except full
responsibility and liab	ility for any produc	t contamination which may he	reafter occur
with respect to the Bad	ger Mining Corporati	on product being loaded into	such vehicle
upon execution hereof.			
Dated this	day of	_, 19	

Signature of Driver

Ron Davi Printed Name of Driver

•

STRAIGHT	BILL OF LADING-SHORT FO	RM ⁻ Original-Not Negotiable		5/000
	INING CORPORATION, SH	II PPFR		<u>54983 54983 </u>
	v 97, Fairwater, Wisconsin 5	"An Innovative Company Providino"	Log '	· • • • • • • • • • • • • • • • • • • •
		_8192		
understood throughou another carrier on the Property, that every se- rail or a rail-water ship lading, including tho accepted for himself	It this contract as marining any person or corporation in provents to asid destination. It is mutually appead, as to each direct to be performed hereunder shall be subject to all the termment, or [2] in the applicable motor carrier classification or is and his assigns.	,	o its usual place of delivery at said destinat I route to destinetion, and ar to each party set forth [1] in Uniform Freight Classificat lies that he is familiar with all the terr and the said terms and conditions ar	tion, if on its route, otherwise to deliver to at any time interested in all or any of said tion in effect on the date hereof, if this is a ms and conditions of the said bill of
Consigned to	E & K To Heresite		· · · · · · · · · · · · · · · · · · ·	<u> </u>
Destination	Manitowoo	State of Wiskonsin	· · · · · · · · · · · · · · · · · · ·	
Route		Tractor No		
Delivering Ca		Troilor No		
No. Packoges	DESCRIPTION OF ARTICLES, S	PECIAL MARKS, AND EXCEPTIONS	SHIPPER'S WEIGHT	Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the
	T-L Grade TANK FILL	, GROSS	79800	Subject to Section 7 of conditions of applicable bill of lading, if this alignment is to be delivered to the consignet, the condition aball sign the following the const the following the const The carrier shall not make delivery
	Bags F-6.5141	TARE	26500	of this abloment without perment of freight and ell stars lawful charges. BADGER MINING CORP.
,	Car #	NET ,	53.300	
	•	Special Instructions:		(Signature of Consignor) If charges are to be prepaid,
	ln:			write or slamp here, "To be Prepaid"
	Out:			
	Somple/Analysis Required	THE LOADED WEIGH NOT EXCEED THE	IT OF THIS VEHICLE DOES LICENSED LIMIT.	Received \$to apply in prepayment of the charges on the property described hereon.
		Weighmaster's Signature		
· · · · ·	Tank # <u>10</u>	Driver's Signature	<u>m</u> :	Agent or Caxhier
Convolidated Freigh	t Classification," "Shipper's imprint in lieu of s	et forth in the box maker's certificate thereon and all of tamp; not a part of bill of lading approved by the i	interstate Commerce Commission	The signature here acknowledges only the amount prepaid,
NOTL Where the rate The agreed or deck		w requires that the bill of lading shall state whether it expecifically in writing the agreed or declared value of th per		Charges Advanced:
BADGER MINING P. O. Box 97, Fo	CORP., SHIPPER	Â		50

INSPECTION REPORT

Per _____

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4

Receiver's Signature_

The undersigned, employed by <u>BMC</u>	· ,
and operating vehicle/rig number 888 - B-20	, does hereby
certify that he has thoroughly and completely inspected and/or	cleaned as required the
payload area including all hoses, product lines, tanks and rela	ted equipment and certi-
fies that the same are free of contaminants; the undersigned do	es hereby except full
responsibility and liability for any product contamination whic	h may hereafter occur
with respect to the Badger Mining Corporation product being loa	ded into such vehicle
upon execution hereof.	
•	

Dated this	day of <u>tenuary</u>	, 19 <u>92</u>
CP/M	· * .	X
Signature of Driver	·	Printed Name of Driv

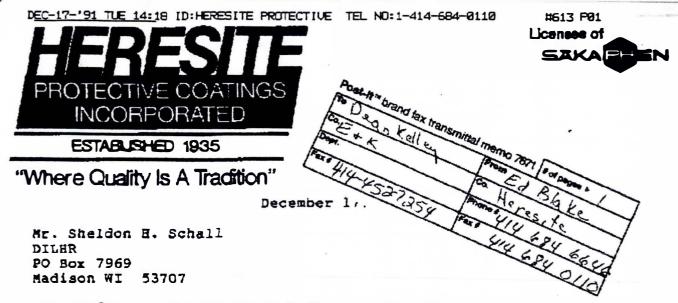
Printed Name of Driver

WARNING INDUSTRIAL SILCA SAND CONTAINS FREE SILCA, AVOID PREATHING DUST FROM THIS PRODUCT, PRECINCED EXPOSITIE MAY CAUSE DELAYED LUNG SILCOSSI, REVEATING DUST INDU THIS PRODUCT, PRECINCED EXPOSITIE MAY DESASE, BULLOWG SILCOSSI, REVEATING DUST MAY INSULT BY AGENCY FOR RESEARCH ON CANCER BARCH AND VALUE OF ANOLOGRAPHS ON THE EVALUATION OF THE CANCERDENTY RISK OF CHINCLES TO MANARY SICA AND SOME SILCATES 11907, THAT THERE IS "SUFFICIENT DODING" WITH RESERVENT OF CHINTSTALLINE SILCA TO EXPERIMENTAL ANNARY AND INTERVIEWED WITH RESERVENT OF CHINTSTALLINE SILCA TO EXPERIMENTAL ANNARY AND INTERVIEWED WITH RESERVENT OF CHINTSTALLINE SILCA TO

BADGER A	BILL OF LADING-SHORT FORM-Original-Not Negotiable to the classifications & tariffs in effect on the date of issue of this original Bill of Lading. AINING CORPORATION, SHIPPER	C-BECCA	<u>54982</u>
P. O. Bo	ox 97, Fairwater, Wisconsin 53931 Dependable Service and Quality		/
	Tairly to DATE 17 19 92	:	
enderstood through enother carrier on th property, that every rail or a rait-water st lading, including th accepted for himse		o Its usual place of delivery at said destina I route to destination, and ar to each party set forth (1) in Uniform Freight Classifica lies that he is familiar with all the ter and the said terms and conditions ar	ition, if on its route, otherwise to deliver to y at any time interested in all or any of said ttion in effect on the data hereof, if this is a rms and conditions of the said bill of
Consigned t	<u>EAR to Herealt</u>	e l'note	otive (anting
Destination_	Manitowoc State of UIT		<u>(/</u>
Route	Troctor No		
Delivering C	Carrier Gin C Troilor No	· · · · · · · · · · · · · · · · · · ·	
No. Packares	DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	SHIPPER'S WEIGHT	Bubjert bp Rection 7 of conditions of applicable bill of lading if this shipment is to be delivered to the consignee without recourse on the consignor, the contraves shall size
	T-L Grade Arik Fill GROSS	80000	The carries shall not make delivere
•	Bags TARE	27300	of this abioment without payment of freight and all other lawful charges. BADGER MINING CORP.
	Car # NET	.52700	
	Special Instructions:	7/2 35	(Signature of Consignor)
			If charges are to be prepaid, write or stamp here, "To be Prepaid"
	Out:		
		I IT OF THIS VEHICLE DOES LICENSED LIMIT.	Received \$to apply in prepayment of the charges on the property described hereon.
	Weighmaster's Signature	·····	
	Tank #	Am.	Agent or Cashler
Consolidated Freig	used for this shipment conform to the specifications set forth in the box maker's certificate thereon and all of ght Classification." "Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the i	nterstate Commerce Commission."	The signature here acknowledges only the amount prepaid.
NOTE Where the re The agreed or dec	noves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it ate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of th lared value of the property is hereby by the shipper to be not exceeding per	is "carrier's of shipper's weight." e property.	Charges Advanced:
	G CORP., SHIPPER Fairwater, WI 53931	Signature Ulla: Stel	hite-
	CAUSE D USSASE ACOUNT	WARNING INDUSTRIAL IS FRE SILCA. AVOD BRATH-GD UUST FROM ALVATO LING KLUTY SELCTOSS VE INHA INCLUDING SILCUTSS. PREMARCHARS'S AND TO RESEARCH ON CANCER AND HAS EVALU TO RE CARCHOOCHICTY MISK OF DE MICH ANT THERE & SILDERTITY CHECKER (THIN THE INTAL AMBALLS' AND <u>LINTS INDERTE</u> " WITH MI	THIS PRODUCT, PROLONGED EXPOSURE MAY LATION OF DUST MAY RESULT IN RESPRATORY PULMONARY FRENOSIS. THE INTERNATIONAL ATTO IN VOLUME 1, MONTABLE AND THE
	INSPECTION REPORT		
Th	e undersigned, employed by		•
	d operating vehicle/rig number	, d	loes hereby
	rtify that he has thoroughly and completely inspected and		•
	yload area including all hoses, product lines, tanks and		
-	es that the same are free of contaminants; the undersigne		
re	sponsibility and liability for any.product contamination	which may hereafte	er occur
	th respect to the Badger Mining Corporation product being	• •	
	on execution hereof.		
	- · · · · ·		
	Dated this day of	, 19	
	and the second		

Printed Name of Driver

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Re: Underground Storage Tank Closure Request to Close in Place

Dear Chief Schall:

This letter is to notify you of our impending closure of two underground storage tanks at Heresite Protective Coatings, 822 South 14th Street, Manitowoc, Wisconsin. The tanks are 18,000 gallons in size and contain Denatured Ethyl Alcohol. Due to the undue hardship that removal of the tanks would create, we request authorization to close the tanks in place in accord with ILBR 10.732(2)(b).

We have retained the services of E & K Hazardous Waste Service, Inc., a licensed and insured tank removal contractor whose offices are located at 2905 Pain Avenue, Sheboygan, Wisconsin, to perform the necessary services.

E & K's certified peresonnel will perform the required site assessment and cleaning prior to closure of the tanks.

We will be substituting 320 gallon Stainless Steel Liqua-tainers (tote tanks) for storage of our Denatured Ethyl Alcohol. These tote tanks are D.O.T. 57 approved for the transportation of flammable materials. Our supplier has over 200 of these units currently in service. By scheduling weekly deliveries, we expect to have a maximum of three or four totes on hand at any one time. These totes will be stored in our warehouse that was previously declared as our flammable liquids storage area.

If you have any questions regarding the activities, please contact Dean Kelley, Project Manager at B & K at 414-458-6030 or me at 414-684-6646.

Regards,

HERESITE PROTECTIVE COATINGS, INC.

Thomas L. Pritzke

President

TLF/slm

822 SOUTH 14th ST., MANITOWOC, WISCONSIN 54220 (414) 684-6646 TWX: 91D-260-2406 FAX: (414) 684-0110

JAN-02-'92 THU 14:05 ID: SAFETY & BUILDING	S TEL ND: 628/267-2592 #445 P01
State of Wisconsin \ Department	of Industry, Labor and Human Relations
	201 E. Washington Avenue Madison, WI. 53702
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ELK MAZ WATC	Fire Protection Section
Shilinggan, WF	Fax #: 608 267-0592
Fax #: 414 - 452 - 7254	Voice #: 608 266-0956
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STATE OF WISCONSIN Department of Industry, Labor & Human Relations Fire Protection & Underground Storage Section Safety and Buildings Division (608) 266-0956

APPENDIX 3

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Chain of Custody

FER HAZARDOUB WASTE SERVICES, INC.

2905 Paine Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-8030 Fax (414)452-7254

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CHAIN OF CUSTODY RECORD

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

CHAIN OF CUSTODY RECORD

2905 Paine Avenue P.O. Box 1249 Sheboygan, WI 53082-1249 Phone (414)458-8030 Fax (414)452-7254

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E&	HAZARD	IOUS WABTE SERVICES, INC. L'HAULING, INC.
2905 Payla A	P.O. Box 1	1249 Sheboyden, WI 53082-1249 130 Fay (414)452-2254

CHAIN OF CUSTODY RECORD

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APPENDIX 4

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Color Photographs of Site



Photo Number 1 Date 01-06-92

Description: Denatured Ethanol UST Tank located under concrete floor between processing oven and aboveground paraformaldehyde storage tanks. Photo taken facing west.



Photo Number 2

Date 01-06-92

Description: Facing east over the UST tank bed.

E&K Hazardous Waste Services, Inc. Project No. 13863 Dean M. Kelley Project Manager Customer: Heresite Protective Coatings, Inc.



Photo Number 3

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Date 01-06-92

Description: Exposure of Top of Tank showing entry manhole through which tank cleaning and filling with sand occured.

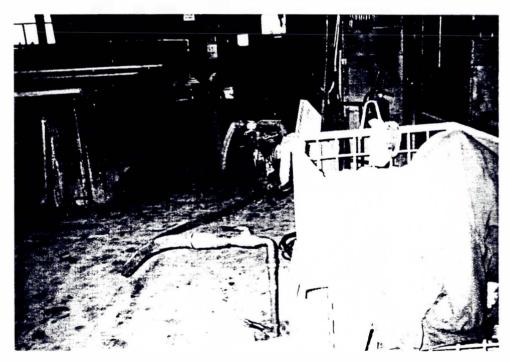


Photo Number 4

Date 01-06-92

Description: Pumping contents of the tank prior to entry, cleaning and closure in-place.

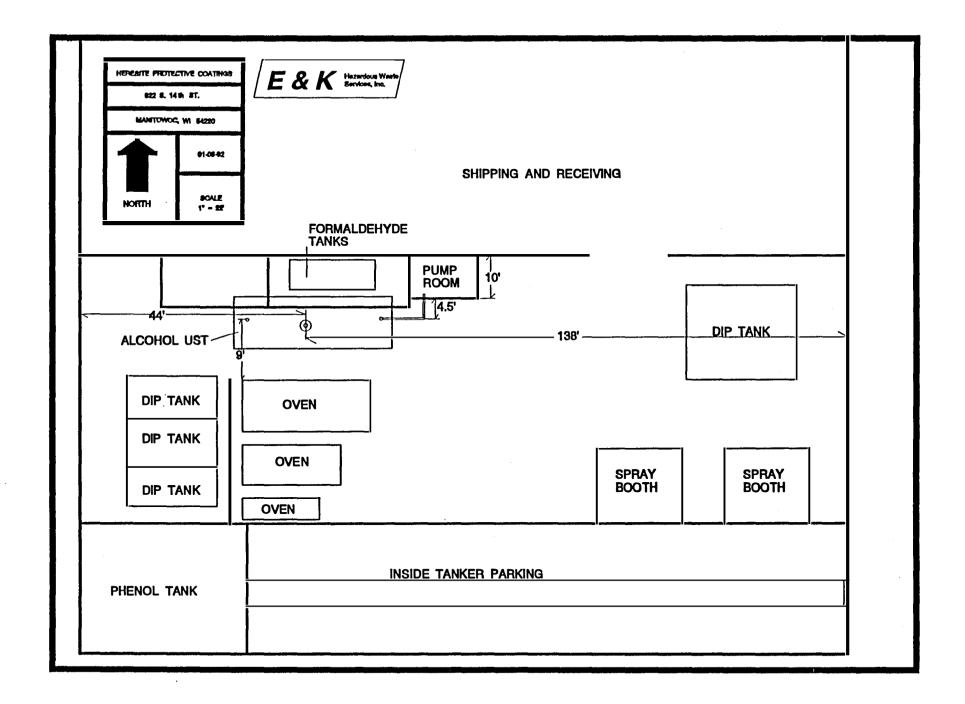
E&K Hazardous Waste Services, Inc. Project No. 13863 Dean M. Kelley Project Manager Customer: Dico, Inc.

APPENDIX 5

Site Map

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Appendix 6

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Laboratory Analytical

ORTEK	13863/JK 1.14-92 414-498-2222
ENVIRONMENTAL LABORATORY	FAX: 414-498-4067
	ox 12435 Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-12	Wisconsin Certification No. 405099530
	Sample ID: EK8742 Sample Desc: ALCOHOL STD
ATTENTION: JANICE HINTZ	Date Collected: 12/19/91
TELEPHONE: (414) 458-6030	Date Received: 12/20/91 Job # : 13863

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	. 800	990,000

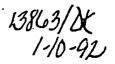
ND = Not Detected

Comments: Lab Sample ID: 9112206 - 121370 Date Analyzed: 01/03/92 Analyzed by GC-FID Headspace Technique. Concentration greater than theoretical but since it was for confirmation only it was not retested at a greater dilution.

Signed:

1/1

Date: 17.72





414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

P.O. Box 12435

- SAMPLE ANALYSIS REPORT -

To: E & K HAZARDOUS 2905 PAINE AVE P O BOX 1249 SHEBOYGAN WI 53082-1249

Attn: JANICE HINTZ

Batch ID : 9112200 Our lab # : 121348 Your sample ID: EK-8739 Sample Matrix : WATER

Report Date: 01/07/92

COLLECTION INFORMATION

Date/Time/By:	12/19/91	DG/CT
Location :	13863-HERESITE	

• ·	Test	Result Units
121348	Total Recoverable Petroleum Hydrocarbons	97.0 MG/L

1AC Signed

Signed

-92 Date

Date

ENVIRONMENTAL LABORATORY	414-498-2222 FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249	Wisconsin Certification No. 405099530
ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-6030	Sample ID: EK8739 Sample Desc: GROUNDWATER Date Collected: 12/19/91 Date Received: 12/20/91 Job #: 13863

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	1000	180,000

ND = Not Detected

Comments: Lab Sample ID: 9112200 - 121348 Date Analyzed: 01/03/92 & 01/06/92 Analyzed by GC-FID Headspace Technique.

Signed:

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Dall

Date: 1-7-92

ENVIRONMENTAL LABORATORY		414-498-2222 FAX: 414-498-4067
2496 West Mason Street	P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 5	5 3082-1249	Wisconsin Certification No. 405099530 Sample ID: EK8741
ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-603	30	Sample Desc: FIELD BLANK Date Collected: 12/19/91 Date Received: 12/20/91 Job # : 13863

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	5.0	ND
— — — — — — — — — — — — — — — — — — —		

ND = Not Detected

Comments: Lab Sample ID: 9112200 - 121349 Date Analyzed: 01/03/92 Analyzed by GC-FID Headspace Technique.

Signed:

)- hl

Date: 1-7-97



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414-498-2222 FAX: 414-498-4067

2496 West Mason Street	P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS	5 1	Wisconsin Certification No.
ADDRESS: PO BOX 1249 SHEBOYGAN WI 5		405099530
	8	Sample ID: TRIP BLANK
		Sample Desc: OFW
ATTENTION: JANICE HINTZ]	Date Collected: 12/19/91
TELEPHONE: (414) 458-603	60 . I	Date Received: 12/20/91 Job #: 13863

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ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	5.0	ND
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ND = Not Detected

Comments:	Lab Sample ID:	9112200 - 121350
	Date Analyzed:	01/03/92
	Analyzed by GC-	FID Headspace Technique.

Signed: D-Ahl

Date: 1-7-97

	13863/DK
ORTEK	1-28-92
ENVIRONMENTAL LABORATORY	414-498-2222 FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: 2905 PAINE AVENUE P O BOX 1249	Wisconsin Certification No. 405099530
SHEBOYGAN WI 53082-1249	Sample ID: EK8808 Sample Desc: SOIL - CTR
ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-6030	Date Collected: 01/07/92 Date Received: 01/09/92 Job #: 13863/HERESITE PROTECTIVE COATING

PARAMETER	DETECTION LIMIT	í 	CONCENTRATION mg/kg
Ethanol	0.1		ND

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121730 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

D-Ale

Date: /- 22-92

AD'	ORTEK		13863/ XK 1-28-92	
			414-498-222 FAX: 414-498-406	
2496 West Maso	n Street	P.O. Box 12435	Green Bay, WI 54307-2435	
CLIENT:	E & K HAZARDOUS		Wisconsin Certification No.	
ADDRESS:	2905 PAINE AVENUE		405099530	

ADDRESS. 2	SOD LUTHE RAFINE	403033330
ī	O BOX 1249	
<i>,</i> S	SHEBOYGAN WI 53082-1249	Sample ID: EK8809
		Sample Desc: SOIL - W
ATTENTION:	JANICE HINTZ	Date Collected: 01/07/92
TELEPHONE:	(414) 458-6030	Date Received: 01/09/92
		Job #: 13863/HERESITE

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg
Ethanol	0.8	72

ND = Not Detected

Lab Sample ID: 9201044 - 121731 Comments: Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

I

Dack

Date: ノーここ-タマ

PROTECTIVE COATING

13863/DK 414-198-2222 ENVIRONMENTAL LABORATORY FAX: 414-198-1067 2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435 Wisconsin Certification No. CLIENT: E & K HAZARDOUS 405099530 ADDRESS: 2905 PAINE AVENUE P O BOX 1249 Sample ID: EK8810 SHEBOYGAN WI 53082-1249 Sample Desc: SOIL - E Date Collected: 01/07/92 ATTENTION: JANICE HINTZ Date Received: 01/09/92 TELEPHONE: (414) 458-6030 Job **#**: 13863/HERESITE

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg
Ethanol	.5	12

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121732 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

Ditte

Date: <u>1-22-97</u>

PROTECTIVE COATING

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AR	ТЕК	128-92
	AL LABORATORY	414-498-2222 FAX: 414-498-4067
2496 West Masor	n Street P.O. Box 12435	Green Bay, WI 54307-2435
	E & K HAZARDOUS 2905 PAINE AVENUE P O BOX 1249	Wisconsin Certification No. 405099530
	SHEBOYGAN WI 53082-1249	Sample ID: EK8811 Sample Desc: BROWN LIQUID & SLUDGE
ATTENTION	: JANICE HINTZ	Date Collected: 01/07/92
TELEPHONE	: (414) 458-6030	Date Received: 01/09/92 Job #: 13863/HERESITE PROTECTIVE COATING

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg
Ethanol	510	47,000
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ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121733 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

0-la

Date: 1-22-92

1381231 NK

ENVIRONMENTAL LABORATORY	•	414-498-2222 FAX: 414-498-4067
2496 West Mason Street	P.O. Box 12435	Green Bay, WI 54307-2435
CLIENT: E & K HAZARJ ADDRESS: PO BOX 1249 SHEBOYGAN W		Wisconsin Certification No. 405099530 Sample ID: EK8811 Sample Desc: BROWN LIQUID &
ATTENTION: JANICE HI	NTZ	Date Collected: 01/07/92
TELEPHONE: (414) 458	-6030	Date Received: 01/09/92 Job # : 13863

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION ug/l
Benzene	10	ND
Ethylbenzene	10	210 Any
Toluene	10	1400 ES
Total Xylenes	30	رع 960 ِ

ND = Not Detected

Comments: Lab Sample ID: 9201044 - 121733 Date Analyzed: 01/14/92 & 01/15/92 Analyzed by GC Method 8020.

Signed: Delle

Date: 1-2782



111 100 2022 LAX: 11.1 728 1957 LIFEEN 817, WL 44107-1419

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P.U. 881 12435

- SAMPLE ANALYSIS REPORT -

TO: E & K HAZARDOUS 2905 PAINE AVENUE PO BOX 1249 SHEBOYGAN WI 53082-1249

ATTN: JANICE HINTZ

Batch ID: Report Date: 01/30/92 9201044 Our Lab #: 121733 Your Sample ID: SAMPLE-8811 Sample Matrix: BROWN LIQUID AND SLUDGE COLLECTION INFORMATION

Date/Time/By: 01/07/92 15:30 BS/CE Location: HERESITE 13863

Lab#	Test		sult Units
	Flash Point	>	210 o F

Signed: Signed:

Revision, 02/14/92, vrg

Date: 2-14-72 Date:



ATTENTION: JANICE HINTZ

TELEPHONE: (414) 458-6030

414-498-2222 FAX: 414-498-4067

P.O. Box 12435

Green Bay, WI 54307-2435

CLIENT: E & K HAZARDOUS ADDRESS: PO BOX 1249 SHEBOYGAN WI 53082-1249 Wisconsin Certification No. 405099530

Sample ID: 8832 (2) FIELD BLANK Sample Desc: GW Date Collected: 01/16/92 Date Received: 01/18/92 Job #: 13863

ETHANOL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	5.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9201123 - 122086 Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed:

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Date: 1-22-92

ENVIRONMENTAL LABORATORY	•
2496 West Mason Street	

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414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

13863/08

1-28-92

CLIENT: E & K HAZARDOUS	Wisconsin Certification No.
ADDRESS: 2905 PAINE AVE	405099530
SHEBOYGAN WI 53082-	1249
ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-6030	Sample ID: 8832 Sample Desc: FIELD BLANK Date Collected: 01/16/92 Date Received: 01/18/92 Job #: 13863/HERESITE PRO.COAT

P.O. Box 12435

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION ug/l
Benzene	1.0	ND
Ethylbenzene	1.0	3.3
Toluene	1.0	4.7
Total Xylenes	3.0	11

ND = Not Detected

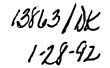
Lab Sample ID: 9201123 - 122086 Date Analyzed: 01/20/92 Comments: Analyzed by GC Method 8020.

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Signed: Delle

Date: 1-27-92

Ouer. 20132



BRTEK	1-28-42
ENVIRONMENTAL LABORATORY	414-498-2222 FAX: 414-498-4067
	O. Box 12435 Green Bay, WI 54307-2435
CLIENT: E & K HAZARDOUS ADDRESS: 2905 PAINE AVE SHEBOYGAN WI 53082-	Sample ID: 8831
ATTENTION: JANICE HINTZ TELEPHONE: (414) 458-6030	Sample Desc: DILUTED WATER & ALCOHOL MIXTURE Date Collected: 01/16/92 Date Received: 01/18/92 Job # : 13863/HERESITE PRO.COAT

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION ug/l
Benzene	· 5.0	ND
Ethylbenzene	5.0	ND
Toluene	5.0	ND
Total Xylenes	15	ND

ND = Not Detected

Comments: Lab Sample ID: 9201123 - 122085 Date Analyzed: 01/20/92 & 01/21/95 Analyzed by GC Method 8020. Contains High Levels of Non-Target Compounds

Signed:

Date: 1-27-92



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414-498-2222 FAX: 414-498-4067 Green Bay, WI 54307-2435

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CLIENT: ADDRESS:	E & K HAZARDOUS PO BOX 1249 SHEBOYGAN WI 53082-1249
ATTENTION	

Wisconsin Certification No. 405099530

Sample ID: 8831 (1A, 1B, 1C) Sample Desc: DILUTED GW & ALCOHOL MIXTURE Date Collected: 01/16/92 Date Received: 01/18/92 Job **#:** 13863

ETHANOL ANALYSIS

P.O. Box 12435

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/l
Ethanol	200	17,000

ND = Not Detected

Lab Sample ID: 9201123 - 122085 Comments: Date Analyzed: 01/20/92 Analyzed by GC-FID Headspace Technique.

Signed: ()-

Date: /-22-92



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Appendix 7

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Transportation Documentation

		ALTERNATE STR	RAIGHT BILL	OF LADING-SH	IORT FORM		Shippe	r No	
	Shipping Order Copy			492	Haz Car			rrier No	
ķ	<u> </u>	-	EXKG	Name of Carrier)					
	Consigner	ZZJVN-G	DISTRIC	.T	FROM: Shipper HERES Street 822	<u>S_</u>	_14	TH ST	UNGS, TAC
1	Destinati	223 N. G ON GELEN BAY	juti_2	Zip Code 54307	Origin MANITO	owo		UT Zip C	odeS4ZZU
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		re the rate is dependent on Ste specifically in writing the agr		Subject to Section 7 of the delivered to the consignee with					
	of the property	-		signor shall sign the following The carrier shall not make) statement. delivery of this shipment without		ck Appro	priate Box:	
)	stated by the s	shipper to be not exceeding		ment of freight and all other charges.			Freight prepaid		Collect.
	DECENCO	cubiert to the classifications and	surfully filed south is off		re of Consignor.) is Bill of Lading, the property describe	d above in pro-	arent mode	rist sycont as ont-of	-
ב ו	contents of par property under any of, said prop ferms, and con	keges unknowni, marked, consigne the contract) agrees to carry to its pertyover all or any portion of saidr ditions in the governigg classificati	d, and destined as indicat instial place of delivery at mute to destination and a nn on the date of shipme	Led above which said carrier(the v said destination, if on its invite, nt is to each party at any time intere- int,	word carrier being understeed through word carrier being understeed through herwise to deliver to another Corrier o sted in all or any of Said property, thate assilication and the Saidherms and co	nut this contra a the mute tas wery service to	act as meani aid destination be performe	ng any person or corpo on, it is natually agreed ad hereindershallbe su	ation in possession of the laste coch carrier of all or bject tri all the bill of Indiae
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	ALTERNATE STRAIGHT	BILL OF LADING-S	Hort Form	Shipper	- No	
Shipping (Order Copy			Carrier	No	
	ESK	Genteran Haus (Name of Ca		Date	_2/28/	92
Street	CREENBAY METRO 2231 N. QU OFFICEN BAY, W	Swace District UNCY Zip Code 54307	FROM: Shipper Hearst Street 822 Origin MANIT	Vehi	14 55	<u>cs, TNC.</u>
No. Shipping Units	Sp	ackaging, Description of Artic scial Marks and Exceptions	atol	Weight (Subject to Correction)	RATE	CHARGES
420	GALLONS	PROJECT # 17	3863			
		······································				
REMIT C.O.O. TO:			C.O.D. FEE: PREPAID		AL s	· · ·
ADDRESS Note - When required to sta of the protects The agreed of stated by the s	The the rate is dependent on value, ship ste specifically in writing the agreed or declar y. or declared value of the property is hereby s shipper to be not exceeding per	red value delivered to the consignee wi signor shall sign the followin pecifically The carrier shall not mak ment of freight and all other	COLLECT 5 the conditions, if this shipment is to thout recourse on the consignor, the o g statement. (e defivery of this shipment without (r charges 4	p be con- Check Appro	ARGES:	GES
contents of pac property under 1 atiy of, said prop terms and cood	subject to the classifications and lawfully filed to trages unknown, marked, consigned, and destin the contract) agrees to carry to its usual place o entypicer all or any portion of <u>said poute</u> to deen blooks in the coverning classification on the dat thy certifies that here familiae with all the bill of la	ariffs in effect on the date of the issue of t eda sindicated above which said carrier [thi [defivery at said destination, if on its rulet. her on and as the each party at any time inter ie of shipment.	this Bill of Lading, the property describer a word carrier being understnod through otherwise Lodeliver to another carrier on ested in all or any of said property, that e	out this contract as mean the mute to said destination very service to be performent	ng any person ir corpor on, it is mutually agreed id hereundershall be su	ration in possession of the as to each carrier of all or hject to all the bill of lading
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	Shipping Order Copy		Ca ie	er No	
	E&K GENINAL HA	ulinia, Tuc.			
	TO: GREEN BAY METROPOLITAN Consignee SEWAGE DISTRICT	FROM: Shipper Henesis Street 822	· · · · · · · · · · · · · · · · · · ·		
-	Street 2231 N QUINCY	Street 822	5 14745	Г	
-	Destination GRCEN BAY WI Zip Code 54307 Route:	Origin MANITU	woc <u>wi</u> Vel	Zip Co hicle No.	de <u>542</u> 26
	No. Shipping Units No. Kind of Packaging, Description of Articl Special Marks and Exceptions	les	Weight (Subject to Correction)	RATE	CHARGES
	NON-REGULATED WASTEWATER &	ALCOHOL			
۔ بر ع	350 GALLONS	<u></u>			
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	required to state specifically in writing the agreed or declared value delivered to the consignee will of the property. signor shall sign the followin	e delivery of this shipment without	con- Check Appr pay-	FREIGHT CHARG	
<u> </u>	S per (Signatu	ure of Consignor.)			
	RECFIVED. Aubject to the classifications and fawfully flyed tarify effect on the date of the issue of the contents of packages unknown), marked, consigned, and destined as undicated above which said carrier (the property under the contract)agrees to carry to its usual place of delwary at said destination, if on its route, o any of, said property over all or any portion of said route to destination and as to each barty at any time interest terms and conditions in the governing classification on the date of supprent. Simpler hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing assigns.	word carrier beingunderstood throug otherwise to deliver to another carrier o ested in all or any of said property, that	phout this contract as mea on the route to said destina every service to be perform	ning any person orcorport ition. It is mutually agreed i ned hereunder shall be sut	ation in possession of the as to each carrier of all or ject to all the bill of lading
U _		CARRIER Nor	1 Juneno		· · · · · · · · · · · · · · · · · · ·
	PER Don Juerger	PER	0 0/	ATE 3-/	2-92
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Shippina	Order Copy				Carrie	• No	
		EAK GO	NERAL HAMLIN	NG INC	Date	3-18	1-92
TO:		Jels fil			<u></u>		
TO: Consigner Street	E_GREENBAY_HE 2231 N	TROPOLITAN	SIWAGE DISTRICT	FROM: Shipper HERESITE Street 827 S	PESTECTIVE	COATINGS ST	, the
	ON GREENBAY,	CUIN CJ	Zin Code 54 307		WOC, W		de 54220
Route:	en oceandry ,				· · ·	icle No.	
No.	1	Kind of Packanin	ng, Description of Article	e	Weight		
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			(Signatur	e of Consignor.)			
contents of par protecty under anyof, said prot terms and con-	:kages unknown), marked.consigne :thecontract) agrees to carry to its pertyover allocanyportionof saidr ditions in the governing classificati	d, and destined as indica usual placeof delivery a outeto destination and on on the date of shipm	ated above which saidparrier (the w t said destination, if on its route, oth as to each which the above time interest ent.	s Bill of Lading, the property described is rord carrier being understood throughn lenwise to deliver to another carrier on th teth in all or prive is and property, that even issuffication and the said terms and cond	it this contract as mean ne route to said destinati ry service to be perform	ing any person or corpora on. It is mic waily agreed a ed have under shall be fild	ition in possession of the ist n recht chrrier of all or ject mail the bill of lading
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_	OGREEN_	<u>N.</u> 3Ay_	WI		ode 54		Street Drigin M	BZ2	<u>ے۔</u> میں			ST Zip Co	xde 54220
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	subject to the classificat	ions and lawfu	illy filed tanffs	sineffection		ignature of l we of this Bill (opertydescr	bedabove				
contents of pac property under any of, saidpoor terms and cond Shipper here	thages unknown), marked, the contract) agrees to ca perty over all or any portio ditions in the governing cl aby certifies that he is fam	consigned, ar arry to its usu n of said route assification o	nd destined as al place of delive to destination in the date of s	indicated abo rery at said de n and as to ea shipment.	ive which said carri Estination, if on its r ch party at any time	ier(the wordt oute, otherwis e interested in	arrier being und seto deliver to a all or any of said	erstood thro inthercame property,the	ighout this r on the rou it every ser	icontractas mé ite to said desti vice to be perfo	aning any per hation. It is my rmed hereund	son oncorpor tually agreed lenshall be su	ation in possession of the as th each carrier of all or bject to all the bill of lading
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	ALTERNATE STR	RAIGHT BILL	OF LADING-SH	ORT FORM	Shipp	er No	
hipping (Order Copy	,			Carri	er No	
	• •	LAK Ga	REAL HAULIN	G INC.		417	197 -
			(Name of Car	rień)	6416	/	10
	LEEN BAL METT		,	FROM:	0.		 75.
Consigner Street	2231 N		NCY	Shipper HERESITE	_ ROTEC	ST	wes_we
	on GREEN BAY	UT	Zip Code 54507	Origin MANITOLD			ode 55220
Route:		,			Ve	hicle No.	
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	re the rate is dependent on ate specifically in writing the ag y.			e conditions, if this shipment is to b out recourse on the consignor, the cor statement.	1.	FREIGHT CHAR(ropriate Box:	SES
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any of, said prop terms and con Sliquer here assigns. SHIPPER	bycertifies that hers familiae with		and conditions in the governing cla	CARRIER		·	LITHO. in U.S.A.

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ALTERNATE STF	RAIGHT BILL	OF LADING-SH	ORT FORM	Si	hipper No.		
Shipping Order Copy		Haz		C	arrier No.		
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		(Name of Carr			ate		
TO: GALEN DAY MET	COPOLITON		FROM:				
Consignee SEWALE			Shipper HERESI	TE ADO	TECTIVA	- Coard	K IN.
	QUINCY		Street 822	<u>5 14</u>	TH S	Y	, <u> </u>
Destination GREEN BAY	117	Zip Code54307	Origin MAN MO		UT	Zip Co	de 54220
Róute:					Vehicle N	-	
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Note-Where the rate is dependent on required to state specifically in writing the agr			ut recourse on the consignor, the	con-		GHT CHARG	ES
of the property The agreed or declared value of the property		signor shall sign the following s	itatement. elivery of this shipment without		Appropriat	e Box:	
stated by the shipper to be not exceeding	is nelecty specifically	ment of freight and all other ch		_			
\$per		(Cinentum)		י ט _	Freight prep	paid	
RECEIVED, subject to the classifications and k	aufully filed tarille is all		e of Consignor.) Bill of Lading, the property describe	ni above in annan	nt anod order e	vcent as noted for	intents and constrained
contents of packages unknown), marked, consigne	d, and destined as indica	ited above which said carrier (the w	ord carrier being understood through	hout this contract	as meaning any	person or corpura	tion in possession of the
Di neerty unifer thecontract) agrees to carry to its any of, said property over all or any portion of said o							
terms and ronditions in the governing classification	on on the date of Shipmi	ent.		-			
Shipper herebycertifies that he is familiar with a assigns.	all the bill of lading terms	and conditions in the governing clas	ssification and the said terms and co	nditions are hereb	y agreed to by th	he shipperand acc	epted forhimself and his
SHIPPER			CARRIER				
PER			PER		DATE	17-17	7-92-
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INSPECTION REPORT

	The undersigned, employed by BMC
;-	and operating vehicle/rig number $SR - B - 20$, does hereby
	certify that he has thoroughly and completely inspected and/or cleaned as required the
	payload area including all hoses, product lines, tanks and related equipment and certi-
	fies that the same are free of contaminants; the undersigned does hereby except full
	responsibility and liability for any product contamination which may hereafter occur
	with respect to the Badger Mining Corporation product being loaded into such vehicle
	upon execution hereof.

Dated this	_8	day of <u>tenugry</u>	,	19 <u>92</u>	_• `	
Signature	1 sn	· .				
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BADGE	GHT BILL OF LADING-SHORT FORM-Original-Not Negotiable bject to the classifications & tariffs in effect on the date of issue of this Original Bill of Lading. R MINING CORPORATION, SHIPPER		54982
<u>P. O</u>	. Box 97, Fairwater, Wisconsin 53931 Dependeble Service and Quality		
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Introduction

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This report presents the results of E & K Hazardous Waste Services Inc. activities in connection with the cleaning and closure in-place of one 19,000 gallon denatured ethanol underground storage tank at 822 S 14th Street in Manitowoc, Wisconsin.

The tank closure was performed at the request of D. Edward Blake, Technical Director, Heresite Protective Coatings, Inc. 414-684-6646. E & K Hazardous Waste Services, Inc. monitored soil conditions at the site and performed the closure of the tank. Diagrams depicting the locations of the UST and the adjacent surroundings are presented in Appendix 5. A United States Geological Survey map and a City of Manitowoc map are located in Appendix 1. The completed Wisconsin Department of Industry, Labor and Human Relations (DILHR) Underground Petroleum Product Tank Inventory Form (SBD-7437) is presented in Appendix 2. The Wisconsin Department of Industry, Labor and Human Relations issued authorization to close the tank in place, a copy of the authorization is also included in Appendix 2. Fire Department personnel from the City of Manitowoc were notified prior to the tank closure of the impending action. No Fire Department personnel were on site at the time of the closure.

Executive Summary

Soil samples were collected to determine if contamination of the soil had occured at the site. Laboratory analyses indicated that a low level of ethanol had been released from the underground storage tank. Groundwater was encountered at the site and there is a potential that groundwater has been contaminated by the release from the tank.

Scope of Work

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

- Pumping, degassing, cleaning, and ultimate closure of the UST.
- Containerization and Disposal of wastes generated in cleaning the tank.
- Obtained soil samples that were representative of the site.
- Submitted samples for analysis.
- Compiled the necessary data to complete this report.
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Tank and Site History

The site is a manufacturing facility which produces high quality coatings for various industrial needs. The 19000 gallon tank was used for storage of denatured ethanol used in the manufacturing process. The owner of the property has no actual knowledge of the past history of the tank prior to its installation at the facility. The tank is assumed to be a former railcar-tanker which was retrofitted and installed for use as an underground storage tank back in the late 1930's.

Site Location, Topography, and Soils

The facility is located at 822 S. 14th Street in Manitowoc, Wisconsin. The site lies in Township 18 North, Range 24 East, in the City of Manitowoc (SW 1/4, of the NE 1/4, Section 30).

The native soils at this site are mapped as Nichols very fine sandy loam in the Soil Survey of Calumet and Manitowoc Counties, Wisconsin (July 1978). This soil typically formed in sandy deposits and is characterized by zero to two percent slopes. The soil consists of well drained soils that have a subsoil of silty sand.

Site Activities

The 19000 gallon tank which was closed during this project had been used to provide storage for denatured ethyl alcohol used in the manfacturing processes at this facility. Prior to closure, an inspection of the facility and sampling of the tank contents for an analytical baseline was conducted by E & K personnel on December 19, 1991.

On January 6, 1992 the tank was opened and the contents were pumped out into a semi-tanker. Color Photographs of the tank location in the facility and its proximity to other aboveground storage tanks in the plant are contained in Appendix 4.

The tank bed was located on the interior south side of the building (See Appendix 5, Site Map). After pumping the contents of the tank, which generated approximately 2500 gallons of liquid, E & K technicians using evacuator fans, ventilated the tank monitoring the lower explosive limit

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of the vapors. Ventilation was purformed prior to and during tank entry and cleaning. On January 7, 1992 the interior of the tank was inspected and physically cleaned by E & K Technicians. The tank was entered following E & K confined space entry safety procedures. The tank walls were drilled through and soil samples were taken with a stainless steel soil probe/trier. The soil was moist which indicated groundwater was present in the area of the tank. As required in ILHR 10 for tank closure in place, three soil samples were taken, one from each end of the tank and one from the center base of the tank. Additionally, a sample of the tank cleanout material which had been previously drummed was taken for waste disposal purposes. (See the Chain of Custody in Appendix 3.) During inspection, the tank walls were found to be very corroded and slight seepage of groundwater into the tank was observed. E & K technicians sealed the seeping areas of the tank walls with "GAP SEAL", an inert silicone patching compound, prior to the filling procedure. Once the tank was cleaned and samples were taken, preparations were made for filling the tank.

Samples were placed in a cooler and packed with ice for storage and transport to a WDNR Certified Laboratory. Due to the fact the tank was used to store denatured ethyl alcohol, no headspace samples were taken.

Soil and Waste Sampling Procedures

Soil samples were taken in native soil at the midpoint of the tank on each end and at the center base of the tank. The soil samples were placed into Teflon-capped glass jars and cooled by placing them in a cooler filled with ice. The soil samples were transported to E & K and subsequently shipped to ORTEK Environmental Laboratories, a Wisconsin-certified laboratory in Green Bay, Wisconsin.

Samples were handled according to EPA protocol, including chain-of-custody procedures. A copy of the chain-of-custody is included in Appendix 3. Sample results are included in Table 1. Additional sampling and analytical work was performed in order to facilitate disposal of the liquid and sludge which had been pumped out of the tank prior to cleaning and sampling. Since the material was an alcohol, disposal was sought at a waste water treatment plant. Green Bay

Metropolitan Sewage District approved disposal at their facility on the condition that the waste be diluted 10 to 1 prior to delivery at the facility.

Analytical Results

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Analytical results for the samples are shown on Table 1. Sampling points are shown on the site map in Appendix 5.

Heresite Protective Coatings, Inc. Manitowoc, wisconsin					
Date Sampled	Date Sampled Sample Number		Detection Limit	Conc. Detect.	
12-19-91	EK8742	Alcohol Std.	800 mg/l Ethnl	990,000 mg/1	
12-19-91	EK8739	Tank Contents Ethnl & Water	1000mg/l Ethnl TRPH	180,000 mg/l 97.0 mg/l	
12-19-91	EK8741	Field Blank	5.0 mg/l Ethnl	ND	
12-19-91	OFW	Trip Blank	5.0 mg/l Ethnl	ND	
01-07-92	EK8808	Soil-CTR	0.1mg/kg Ethnl	ND	
01-07-92	EK8809	Soil-W	0.8mg/kg Ethnl	72 mg/kg	
01-07-92	EK8810	Soil-E	0.5mg/kg Ethnl	12 mg/kg	
01-07-92	EK8811	Tank Sludge	510mg/kg Ethnl	47,000 mg/kg	
01-07-92	EK8811	Tank Sludge	Flash Point	>210 F	
01-16-92	EK8831	Alcohol/Water Diluted 10-1 (SN: EK8739)	200 mg/l Ethnl 5 ug/l Benzene 5 ug/l E. Benz 5 ug/l Toluene 15 ug/l Xylenes	17,000 mg/l ND ND ND ND	
01-16-92	EK8832	Field Blank	5.0 mg/l Ethnl	ND	

Table 1Analytical Results for SiteHeresite Protective Coatings, Inc. Manitowoc, Wisconsin

The results of the soil sample analysis, as shown on Table 1, indicate that there is denatured ethyl alcohol contamination in the soil at this tank site. Laboratory analysis report sheets are located in Appendix 6.

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Disposal

Upon receipt of Disposal Approval at Green Bay Metropolitan Sewage District (GBMSD), all wastes generated during the tank cleaning process were transported under Straight Bills of Lading and disposed of at the GBMSD. Copies of the transportation documentation is located in Appendix 7.

Tank Closure Activities

Upon completion of tank cleaning and sampling operations, the tank was filled with sand as permitted by DILHR. Sand was blown into the tank via two inch discharge hoses from semi-trailers. The ends and sides of the tank were filled first and then the center of the tank was filled.

Conclusions

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Denatured ethyl alcohol contamination was detected in the soil adjacent to the underground storage tank which was closed in place at this facility.

Recommendations

E & K Hazardous Waste Services, Inc. recommends that due to the fact that low levels of ethyl alcohol was detected in the soil and ethyl alcohol is easily degraded by microbial activity, no additional remedial activity is recommended at this site.

APPENDIX 1

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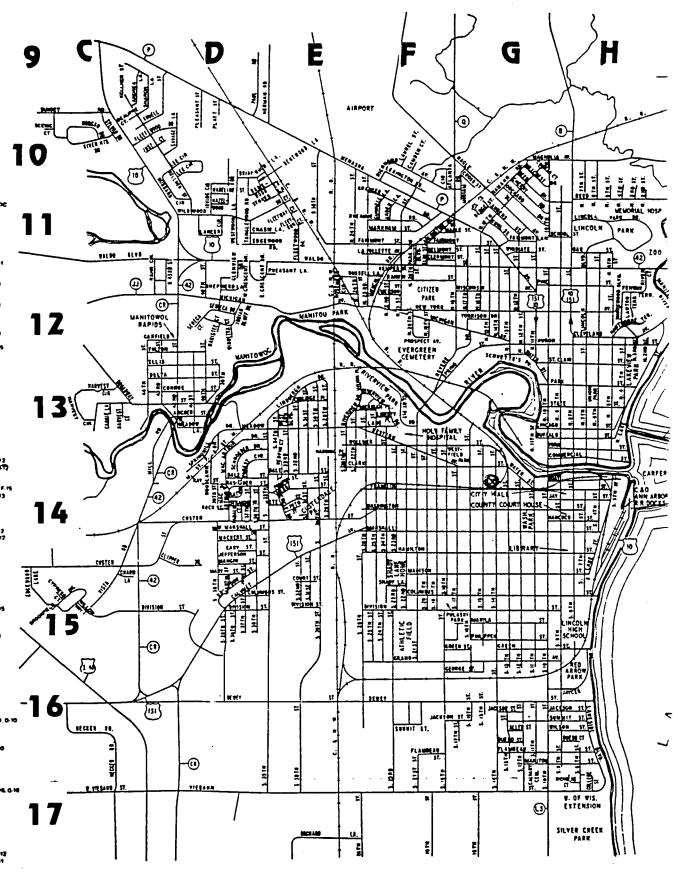
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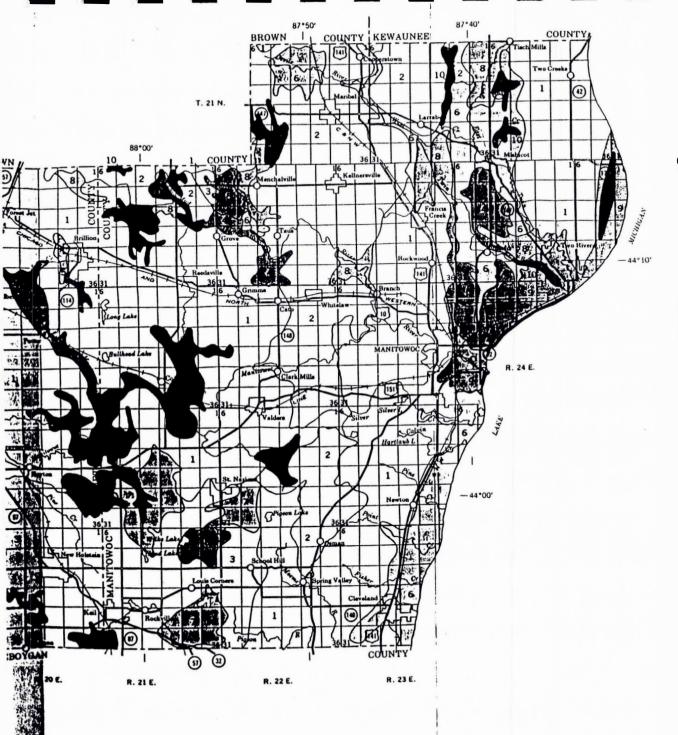
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City of Manitowoc and USDA Soils Maps





MANITOWOC



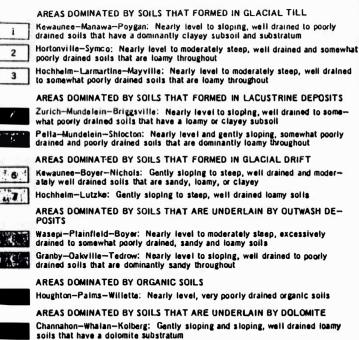
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE RESEARCH DIVISION OF THE COLLEGE OF AGRICULTURAL AND LIFE SCIE UNIVERSITY OF WISCONSIN

GENERAL SOIL MAP

CALUMET AND MANITOWOC COUNTIES, WISCONSIN

Scale 1:253,440 0 1 2 3 4 Miles

SOIL LEGEND



Compiled 1978



APPENDIX 2

Tank Closure Forms & D.I.L.H.R. Correspondence Wisconsin Department of Industry, Labor

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UNDERGROUND

Send Completed Form To: ings Division 3707 08) 267-5280

Labor and Human Relations	-	EUM PRODU		Safe	ty & Buildings Division
For Office Use Only:		INVENTORY		Mad	Box 7969 lison, WI 53707
Tank ID #	Information Require	ed By Sec. 102.14	2, Wis. S [.]		phone (608) 267-5280
Underground tanks in Wisconsin that Please see the reverse side for additio with at least 10 percent of its total vol each tank. Send each completed form this tank by submitting a form?	nal information on this p lume (included piping) lo n to the agency designat	rogram. An und cated below gro ed in the top righ	lergroun ound leve nt corner.	d storage tank I. A separate : . Have you pr	is defined as any tank form is needed for eviously registered
This registration applies to a tank that is (check 1A. In Use or 1B. Newly Installed 4.	one):	3. Changed Own	Fi ership W	re Department Pr /here Tank Locate	oviding Fire Coverage
•	Closed - Filled With	(Indicate new o			
3. 📮 Abandoned No Product (empty)	Inert Material	below)	c	ity of Mani	itowoc FD.
	Out of Service - Provide Da	te:		-	
A. IDENTIFICATION: (Please Print) 1. Tank Site Name	Site Addr				Site Telephone No.
<u>Heresite Protective Coating</u>	$\Box \text{ Town of:}$	<u> 14th Stree</u> State	ZipC	ode	(414)684-6646 County
Manitowoc		WI		4220	Manitowoc
2. Owner Name (mail sent here unless indicat	ted otherwise in #3 below)	Owner Mailing Addr Same	ress (mail si	ent here unless inc	dicated otherwise in #3)
City Village	🔲 Town of:	State	Zip C	ode	County
3. Alternate Mailing Name if Different Than	#2	Alternate Mailing St	treet Addre	ess If Different Fro	m #2
City Village	Town of:	State	Zip C	ode	County
4. Tank Age (date installed, if known: or year	rsold) 5. Tank Capacity (gail 19,000	ons) 6. Tank Man Unknow		Name(ifknown)	· · ·
B. TYPE OF USER (check one):				· · ·	
5. 🙀 Industrial 6. 🗍 G	ulk Storage jovernment)ther (specify):	3. Utility 7. School			Mercantile Residential
3. 🗍 Coated Steel 4. 🗍 F	athodically Protected and Coa iberglass teel - Fiberglass Reinforced Pla	5. (Other (:	specify):	essed Current)
	Other:			is Tank Double	e Walled? 🔲 Yes 🔂 No
Overfill Protection Provided? Yes GNG	If yes, identify type:			Spill Containm	
Tank leak detection method: 1. Automati tightness testing 5. Interstitial monitori	c tank gauging 2. 🗌 Vapo ing 6. 💽 Not required at pre	r monitoring 3. 🗌 esent 7. 🗌 Manu] Groundw Jal Tank Ga	ater monitoring auging (only for ta	4. Inventory control and nks of 1,000 gallons or less)
D. PIPING CONSTRUCTION 1. Street Steel 2. Cathodically Protect 4. Fiberglass 5. Other (specify):	ted and Coated or Wrapped St	eel (A. 🗌 Sacrificial A	Anodes or	B. [] Impressed Cu	urrent) 3. 🔤 • Coated Steel 9. 🔲 Unknown
Piping System Type: 1. Pressurized pipingwith 3. Suction piping with	vith: A. 🗌 auto shutoff; B. 🗍 check valve at pump and inspe		restrictor	2. Suction pip	ing with check valve attank
Piping leak detection method: used if pressuriz 3. Groundwater monitoring 4.] Vapor monitoring] Line Leak Detector] Interstitial monit] Not Required	oring
	. D Other:		C	ouble Walled:	Yes No
E. TANK CONTENTS					
1. Diesel 2. L 5. Gasohol 6. 0		3. 🔲 Unleaded 7. 🔲 Empty			Fuel Oil Sand/Gravel/Slurry
9. Unknown 10. C		11. 🗌 Waste Oil		_	Propane
13. 🔄 Chemical * Denatured Ethand	}1	14. 🗌 Kerosene		_	Aviation
* If # 13 is checked, indicate the chemical nam	ne(s) or number(s) of the chemi	cal or waste.			
If Tank Closed, Give Date (mo/day/yr):		Has a site assessme	nt been co	mpleted? (see rev	verse side for details)
01-08-92				Yes 🗌 No	
If installation of a new tank is being reported, i	ndicate who performed the in	stallation inspection:			
1. 🗌 Fire Department 2. 🗌 🛙	DILHR	3. 🗌 Other (ider	ntify)		
Name of Owner or Operator (please print):			Indicate W		
<thomas fritzke<="" l.="" td=""><td></td><td></td><td></td><td>Owner or</td><td>J Uperator</td></thomas>				Owner or	J Uperator
Signature of Owner or Operator:	-	1	Date Signe	:a:	

SBD-7437 (R. 12/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient

5-13-92

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

CHECKLIST FOR UNDERGROUND

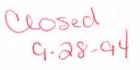
TANK CLOSURE

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

	IDENTIFICATION: (P	lease Print)			2. Owner N	алле					
	···· · · · ·	CTIVE CO	MATINES		\$		PROTE	CTIUS	CCA	TINKS	
	allation Street Address				Owner Stree	t Address					
-x -	<u>822 ≤ /4^{7#}S</u> ^{City} ∐ Villa	7 ane	Town of:			<u>Village</u>	14745: Town of:	/- State		Zio Code	
	<u>πΑλιτοίνος</u> 8 Ζ	590			1 `	Teilinge [L		210 0008	
Sta	le Zi	p Code	County		County		Telephone	-		•	<u></u>
		··· _ · _ · _ · · · · · · · · · · · · ·	MANITC		MANITO		(414		<u>4 -66</u>	<u> </u>	
	Closure Company Name				ipany Street A	-	-			< > < >	
<u>_2-</u> Cor	HAJARYOUS G	de area code)	SRUICES	Certified Ren	Ante nover Name	1405 2	121076	An a	Remove	SCSC/ er Certificatio	n No.
	414) 458-60			1							
	Name of Company Performi	-			Company Stre		-	-			
	LK HAZARAJUS L		Rux29	2905 / Certified Ass	AINE AL	<u>k Sta</u>	socan		Assocs	or Certificatio	
	414) 458-60				GILB	5 D T S OF		•	155555		
	Tank ID #	Closure	Temp. Closu		re In Place			ontents '		ure Asse	ssment
•		1		1							
<u>1.</u> 2.				1			1	/२			
<u>2.</u> 3.		i		 		l	P				
				1			1				
<u>4.</u>			<u> </u>	<u> </u>	<u> </u>		<u> </u>		_		
<u>5.</u>		ļ□						-			-
<u>6.</u>	lights which and dust have			 		A Evel Oik	OF Casaba				
1 1	licate which product by -Waste oil; 13-Chemica	i (indicate the	chemical name	e(s) or numb	ers(s) <u>Arcc</u>	14-ruei Uii;			14-Kero	sene: 15-A	viation.
Notif	ication was provided to	the local autho	rities 15 days	in advance o	of closure da	te			ΩL Y		
	cal permits were obtain								¥Ζ	N []	
	ck applicable box at			statements	s in Section	ns B - E.		Re	emover		
	TEMPORARILY OUT Product Removed	OF SERVIC	E					<u>v</u>	erified	Verified	1
	a. Product lines drain	ned into tank (o	or other contair	ner) and resu	ulting liquid r	emoved, A	ND	🛛			
	b. All product remove	ed to bottom o	f suction line, (OR			 .	🛛	YON		
	c. All product remove 2. Fill pipe, gauge pipe.										
	3. All product lines at th										
4	I. Dispensers/pumps le	ft in place but	locked and po	wer disconne	ected		••••	🛛	YON		
	5. Vent lines left open.					•••••	• • • • • • • • •	🛛	Y D N		
t	 Written inspector app is effective until _ 	roval of tempo	•		cn 			П	Y DN		
7	7. Inventory form filed b	y owner indica	ating temporary						YON		
C.	CLOSURE BY REMO	VAL									
	I. Product from piping of	drained into ta	nk (or other co	ntainer).							
2	2. Piping disconnected	from tank and	capped or rem	noved					YON		
	8. All liquid and residue								Y D N		
	 All pump motors and Fill pipes, gauge pipe 										
	NOTE: DROP TUBE THE USE OF AN ED	SHOULD NO									U
	7. Vent lines left connec	cted until tanks							YON		
	 Tank openings tempo Tank atmosphere rec 								Y DN Y DN		
). Tank removed from e							··· U	ייטיי		U
	to prevent movement							🛛	YON		

		CLOSURE BY REMOVAL (continued)		Remover Verified	Inspector Verified	<u>NA</u>
I		 Tank labeled in 2" high letters after removal but before bei NOTE: COMPLETE TANK LABELING SHOULD INCLUDI FORMER CONTENTS; VAPOR STATE; VAPOR FREEING 	E WARNING AGAINST REUSE;			
1	1	 Tank vent hole (1/8 th " in uppermost part of tank) installed Inventory form filed by owner with Safety and Buildings Div Site security is provided while the excavation is open	I prior to moving the tank from site	ΠY ΠΝ		
).	CLOSURE IN PLACE NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WI OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUI	TH THE PRIOR APPROVAL	<u> </u>		
, I		 Product from piping drained into tank (or other container). Piping disconnected from tank and capped or removed. All liquid and residue removed from tank using explosion p All pump motors and suction hoses bonded to tank or othe Fill pipes, gauge pipes, vapor recovery connections, subm NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THI THE USE OF AN EDUCTOR. 	roof pumps or hand pumps rwise grounded ersible pumps and other fixtures removed.			
	1	 Vent lines left connected until tanks purged Tank openings temporarily plugged so vapors exit through Tank atmosphere reduced to 10% of the lower flammable in Openings cut in tank top if necessary to introduce inert ma Solid inert material sand cyclone boiler slag, pea gravel re Vent line disconnected or removed	vent range (LEL) - <u>see Section F.</u> terial ecommended) introduced and tank filled.	XXXXXXXX × × × × × × = = = = = = = = = = = = = = = = = = =		
, E	•	CLOSURE ASSESSMENTS NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS R	EQUIRED BY REFERRING TO ILHR 10.			
]		 Individual conducting the assessment has a closure assess is used as the basis for their work on the site. Do points of obvious contamination exist? Are there strong odors in the soils? Was a field screening instrument used to pre-screen soil sist. Was a closure assessment omitted because of obvious contamination Was the DNR notified of suspected or obvious contamination Agency and office contacted: 	ample locations? ntamination? on?			
12		7. Contamination suspected because of: Odor Soil Stair	and the second second second second second second second second second second second second second second second	ater 🗌 Field	Instrument 1	rest
	(METHOD OF ACHIEVING 10% LEVEL DESCRIPTION Eductor Or Diffused Air Blower Eductor driven by compressed air, bonded and drop tube Diffused air blower bonded and drop tube removed. Air Dry Ice Dry ice introduced at 1.5 pounds per 100 gallons of tank area. Dry ice evaporated before proceeding. Inert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPM Gas introduced through a single opening at a point near to Gas introduced under low pressure not to exceed 5 psig Tank atmosphere monitored for flammable or combustible va Calibrate combustible gas indicator. Drop tube removed and upper portion of tank. Readings of 10% or less of th ground. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUE	e left in place; vapors discharged minimum of pressure not exceeding 5 psig. capacity. Dry ice crushed and distributed of AN OXYGEN DEFICIENT ATMOSPHERE. IENT the bottom of the tank at the end of the tank to reduce static electricity. Gas introducing por levels. I prior to checking atmosphere. Tank spac the lower flammable range (LEL) obtained be	over the grea THE TANK opposite the g device grou e monitored	test possible MAY NOT vent. Inded. at bottom, m	BE
]]]			•			
I .		INSPECTOR INFORMATION			<u></u>	
Į		Inspector Name (print) Inspect	or Signalure	Inspector Ce	ertification No	0.
].		FDID # For Location Where Inspection Performed Inspect	or Telephone Number	Date Signed		

Department of Natural Resources



I.D. #	
District: <u>Ann</u> County: <u>36</u> Site Name: <u>Accessite Protective Confinge</u> Address: <u>822 S. 121M Street</u> Legal Municipality: <u>Manituwoc</u> T V	Case No.: PMN: FID: Proj. Mgr: <u>S. S. u>
Date of Discovery: 04 1 3 1 93	Date of RP Contact: / /
PRIORITY SCREENING: FUNDING SOURCE: $_$ 1 = High \checkmark 1 = RP $_$ 3 = Low $_$ 2 = LTF \checkmark 4 = Unknown $_$ 3 = EF	ENFORCEMENT AUTHORITY: 1 = Spill Law s. 144.76, Wis. Stats. 2 = Envir Repair Law s. 144.442, Wis. Stats 3 = Hazardous Waste Rules NR 600 Series 4 = Solid Waste Rules NR 500 Series
4 = SF PRE-SCORE 5 = None 6 = Other (Describe In figure) 7 = EPA Emergency Res	Comments) 5 = CERCLA 6 = Abandoned Container s. 144.77, Wis. St $7 = Other$ (Describe in Comments)
PROGRAMS INVOLVED: (L - LEAD S - SUI Aban Containers NR 500 So Lust Spills NR 600 Hazardous Waste Superfund	blid Waste Water Supply Water Resources Mgt
Business Name: foresity Protoching and Owner/Mgr.: D. Educard Blacc Address: 622 S. 1411 Street Man 174 pc 41 54220 Phone: 114 / 684 - celicity	Business Name: Owner/Mgr.: Address: Phone: Ocentest Decesi
Contact Person:	Contact Person: (NOWN IMPACTS (X) POTENTIAL IMPACTS (X)
No Threat Fire/Explosion threat (1) Contaminated Private Well (2) Contaminated Public Well (3) Groundwater Contamination (4) Soil Contamination (5) Direct Contact (10) Contaminated Surface Water (7) Contaminated Air (8) Other (6)	
CONSULTANT INFORMATION: Company: <u>94K</u> Contact Person: <u>91000 Killey</u> Address: <u>2905 Parme Aut</u> Shikuy(1000 killey) Phone: <u>114</u> 7 455-6030 (List additional on separate sheet & attach.)	Company: Contact Person: Address: Phone: /