

09-41-292568

**SITE ASSESSMENT REPORT
FOR
UNDERGROUND STORAGE TANK**

prepared for

**Hentzen Coatings, Inc.
6937 West Mill Road
Milwaukee, Wisconsin 53218**

GEO MANAGEMENT CONSULTANTS INCORPORATED

Site Assessment Report
for
Underground Storage Tank

Prepared for

Hentzen Coatings, Inc.
6937 West Mill Road
Milwaukee, Wisconsin 53218

by

GEO Management Consultants, Incorporated
9321 North 107th Street
Milwaukee, Wisconsin 53224
(414) 354-7600



Bill E. Davies
Principal Hydrogeologist

42105

State of Wisconsin Site Assessor
Credential Number

December 1998

GEO MANAGEMENT CONSULTANTS INCORPORATED

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REPORT DISTRIBUTION LIST

Number of Copies

Recipient

1 Copy

Mr. Albert L. Hentzen
Hentzen Coatings, Inc.
6937 West Mill Road
Milwaukee, Wisconsin 53218

1 Copy

Ms. Julie Weber
Wisconsin Department of Natural Resources
Remediation and Redevelopment Program
P.O. Box 7921
Madison, Wisconsin 53707

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SITE ASSESSMENT SUMMARY

Tank Removal/Assessment Date: December 9, 1997

Tank Description: 1,500-gallon, coated steel, leaded gasoline underground storage tank ("UST").

Wisconsin Tank I.D. Number: 402003076

Project Site: Hentzen Coatings, Inc.
6937 West Mill Road
Milwaukee, Wisconsin 53218

Legal Description of Project Site: SE 1/4 of NW 1/4, Section 27, T8N, R21E, Milwaukee County, Wisconsin

Tank Owner/Operator: Hentzen Coatings, Inc.
6937 West Mill Road
Milwaukee, Wisconsin 53218
Contact: Mr. Albert L. Hentzen
Phone: (414) 353-4200

Site Assessor: GEO Management Consultants, Incorporated
9321 North 107th Street
P. O. Box 24260
Milwaukee, Wisconsin 53224-0260
Contact: Mr. Bill E. Davies (Wisconsin credential number: 42105)
Phone: (414) 354-7600

Tank Remover: Petroleum Equipment, Inc.
3950 West Douglas Avenue
Milwaukee, Wisconsin 53209
Contact: Mr. Duane Lindhorst (Wisconsin credential number: 42183)
Phone: (414) 466-3000

Tank Cleaner/Disposal: National Tank Service of Wisconsin, Inc.
1813 South 73rd Street
West Allis, Wisconsin
Phone: (414) 257-0030

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SITE ASSESSMENT SUMMARY (Continued)

Analytical Laboratory:

MVTL Laboratories, Inc.
140 East Ryan Road
Oak Creek, Wisconsin 53154-4599
Wisconsin cert. no.: 241283020
Contact: Ms. Joanne Larson
Phone: (414) 764-7005

Tank Contents Disposal:

Waste Management of Wisconsin, Inc.
Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, Wisconsin
(414) 253-8620

1.0 INTRODUCTION

1.1 Site Background

On December 9, 1997, GEO Management Consultants, Incorporated ("GEO Management"), conducted site assessment activities related to the removal of one approximately 1,500-gallon, reported leaded gasoline, underground storage tank ("UST") system located at Hentzen Coatings, Inc. ("HCI"), 6937 West Mill Road in Milwaukee, Wisconsin (the "Site"). The UST was in place and out of service when the property was purchased by HCI in 1974. During the late 1970's, HCI personnel abandoned the UST by pouring pea gravel through the fill port and removing the fill piping. The Site is located in the City of Milwaukee in the SE 1/4 of NW 1/4, Section 27, T8N, R21E. Figure 1 illustrates the general Site location.

1.2 Regional Hydrogeologic Setting

1.2.1 Geology

The geology in the area around the Site consists of unconsolidated glacial deposits overlying Silurian-age dolomite bedrock. The surficial unconsolidated deposits consist predominantly of clays with variable sands and gravels. The thickness of these unconsolidated deposits varies between 50 - 120 feet throughout the surrounding area.

GEO Management conducted a survey of the well logs (provided by the Wisconsin Geological and Natural History Survey) for wells located within 1/4 mile surrounding the Site. The well survey did include several well logs referenced to the area of the Site which generally describe clay and till (with sand and gravel) to depths of approximately 100 - 120 feet with underlying dolomite/limestone to the maximum drilled depth of 183 feet. A representative copy of the driller's log for a well located nearest the Site is included in Appendix A.

1.2.2 Groundwater Occurrence and Flow Direction

Groundwater was not observed at the Site within the UST excavation (approximately 9.5 feet below ground surface ["bgs"]) at the time of UST removal. Based on the site topography and the location of area surface water bodies, the groundwater flow direction of the shallow water table (unconsolidated deposits) is expected to be generally toward the south at the Site. The regional groundwater flow direction in the deeper dolomite bedrock aquifer is generally eastward, toward Lake Michigan.

1.2.3 Groundwater Usage

The nearby area generally consists of industrial and commercial parcels, as well as private residences. The entire area currently relies on the City of Milwaukee municipal water system for its water supply.

2.0 SITE ACTIVITIES

2.1 Tank Removal Activities and Excavation

According to the Wisconsin Department of Commerce ("WDOC") records, the installation date of the UST system is unknown. As reported by representatives of HCI, it is thought that only leaded gasoline was stored in the UST. The UST was constructed of resin-coated steel, measuring approximately six feet in diameter and nine feet in length with the fill piping located above the tank. The bare steel product supply piping extended approximately three feet northeastward to the adjacent dispenser pad. No dispenser was present at the site during or prior to the removal. Figure 2 is the site map showing the former UST, product piping, and dispenser locations.

During the tank removal and cleaning, Mr. Tim Temperly, Inspector with the City of Milwaukee Building Inspection Department, was on-site to observe the activities (WDOC credential number: TI00026). The UST was removed by Mr. Duane Lindhorst (WDOC credential number: 42183) of Petroleum Equipment, Inc. ("PEI") 3950 West Douglas Avenue, Milwaukee, Wisconsin 53209. PEI used a tire mounted backhoe to excavate the overlying and surrounding soils and lift the UST from the excavation. The UST was cleaned above-ground following approval from Mr. Temperly. The former product supply piping extended approximately seven feet and was attached to the base of a concrete pad at the location of the former dispenser at the corner of the adjacent maintenance building (see Figure 3). The opening to this line had been filled with concrete. The former vent pipe had previously been cut below ground.

National Tank Service of Wisconsin, Inc. ("National Tank"), 1813 South 73rd Street, West Allis, Wisconsin 53214, performed on-site UST system cleaning. The contents of the UST included six, 55-gallon drums of pea gravel and water. No sheen or odors were noted within the former UST. The UST was emptied of water and pea gravel by National Tank. The water and pea gravel from the former UST were approved for treatment/disposal at Waste Management of Wisconsin, Inc. Orchard Ridge Bio-Treatment Facility located in Menomonee Falls, Wisconsin. A copy of the disposal manifest for the water and pea gravel contained within the UST is included in Appendix B.

Following removal, the UST was dismantled and disposed of by PEI through Midwest Iron and Metal 6760 North Industrial Road, Milwaukee, Wisconsin 53223. Upon completion of the tank removal and site assessment activities, the excavated soils were placed back in the excavation followed by clean backfill to bring the area to original grade level. All pertinent forms relating to the UST closure (i.e., tank closure checklist [ERS-8951], underground petroleum product tank inventory [ERS-7437], tank cleaning and waste disposal receipts, and tank disposal receipt) are included in Appendix B.

2.2 Site Assessment Activities

The overall site assessment activities were performed by GEO Management following the UST removal on December 9, 1997. Light snow was falling during the UST removal. The temperature during the site assessment activities was approximately 25° F.

All site assessment activities were performed by GEO Management's Wisconsin-credentialed Site Assessor Mr. Bill E. Davies (credential no.: 42105). Immediately following removal of the UST by PEI, duplicate soil samples were collected in native soils at approximately 1 foot below each end of the UST (from approximately 9.5 feet bgs), and from approximately 1.5 feet beneath the former dispenser location. One sample from each location was field screened using a Model 580B Thermo Environmental Instruments Organic Vapor Monitor ("OVM"). The remaining soil samples from each location were immediately placed in the appropriate laboratory supplied containers and in an ice-filled cooler for submittal to the laboratory and subsequent chemical analysis. A total of three soil samples were collected for field screening and laboratory analysis from the former UST and dispenser locations. Soil sample locations are shown on Figure 3. Soil sample collection and field screening procedures are described in Appendix C.

3.0 FINDINGS AND RESULTS

3.1 Field Observation

Prior to the UST removal, no visible surface staining was observed on the unpaved surface. The top of the UST was located approximately 2.5 feet bgs. Beneath the surficial topsoil, the tank bed soils consisted of brown clay to approximately 8.5 feet bgs followed by gravelly sand to the furthest depth of investigation (approximately 9.5 feet bgs). The UST backfill material consisted of sands.

Groundwater was not noted within the UST excavation or underlying gravelly sand soil. No petroleum odors were noted within the UST excavation during removal activities. Petroleum odors were also not noted beneath the former location of the dispenser. Visible petroleum staining was not observed within any of the excavated intervals.

Inspection of the UST system revealed that the former 1,500-gallon coated steel UST was in excellent condition with no holes or rust on the outside of the tank. The inside of the UST was also inspected and exhibited only minor amounts of rust with no pitting or holes. The piping appeared to be in good condition with no visible holes, rust, or pitting. Soil sample field screening results indicated no ionizable organic concentrations ("IOC") within the tested soils.

Prior to removal of the pea gravel and water (apparent seepage of water into the former fill port between the late 1970's to December 1997) from the UST, a water sample was collected to characterize this material. No odor or sheen was noted on this water. The water appeared

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reddish due to the minor interior rusting of the UST. The water sample was submitted to the project laboratory for analysis of gasoline range organics ("GRO"), petroleum volatile organic compounds ("PVOCs") including 1,2-dichloroethane, and total lead.

3.2 Laboratory Results

To more effectively quantify the soil observations made during the site assessment, the duplicate soil samples collected with the field screening samples were submitted to MVTL Laboratories, Inc. (WDNR certification no. 241283020) for laboratory analysis of GRO. The results of the laboratory analyses along with the field screening results are presented in Table 1. The complete laboratory reports and chain-of-custody forms for both the soil and water samples are included as Appendix D.

Review of the laboratory data indicates that GRO was not detected in any of the soil samples collected beneath the ends of the former UST or beneath the former dispenser. Soil sample locations and GRO laboratory results are shown in Figure 3.

The laboratory reports for the water sample collected from inside the former UST are presented in Table 2 and are included in Appendix D. Review of the results of the water sample collected on December 9, 1997 indicate that no GRO was detected within the water sample. Two PVOCs were detected at very low concentrations. Toluene was detected at an estimated concentration of 0.41 micrograms per liter ("µg/l") and 1,2,4-trimethylbenzene was detected at an estimated 0.52 µg/l. These very low concentrations are estimated by the laboratory below the analytical limit of quantitation ("LOQ"). Total lead was also detected at a very low concentration of 2.4 µg/l. These analytical results were used for acceptance of the tank contents (water and pea gravel) at the Waste Management of Wisconsin Orchard Ridge Bio-Treatment Facility.

4.0 CONCLUSIONS AND RECOMMENDATIONS

During the assessment, no odors or staining of soil were noted which might suggest a release from the former UST system. Also, the reported analytical results for the submitted soil samples indicate that GRO was not detected in the soil beneath the former 1,500-gallon UST or beneath the former dispenser. Therefore, based on the analytical results, GEO Management, on behalf of Hentzen Coatings, Inc., respectfully recommends closure of this former gasoline UST site by the WDNR.

5.0 LIMITATIONS OF ASSESSMENT

The assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by Professional Consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The interpretations and conclusions contained in this report are based upon the results of independent laboratory tests and analysis, performed by a state-certified laboratory, intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property. GEO Management Consultants, Incorporated has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

This report is issued with the understanding that it is the responsibility of the Owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

Figures

DRAWING NUMBER	97H20-1
DATE	1/23/98
APPROVED BY	R. R. R.
DATE	1/20/98
CHECKED BY	GFD
DATE	1/20/98
DRAFTED BY	NJS

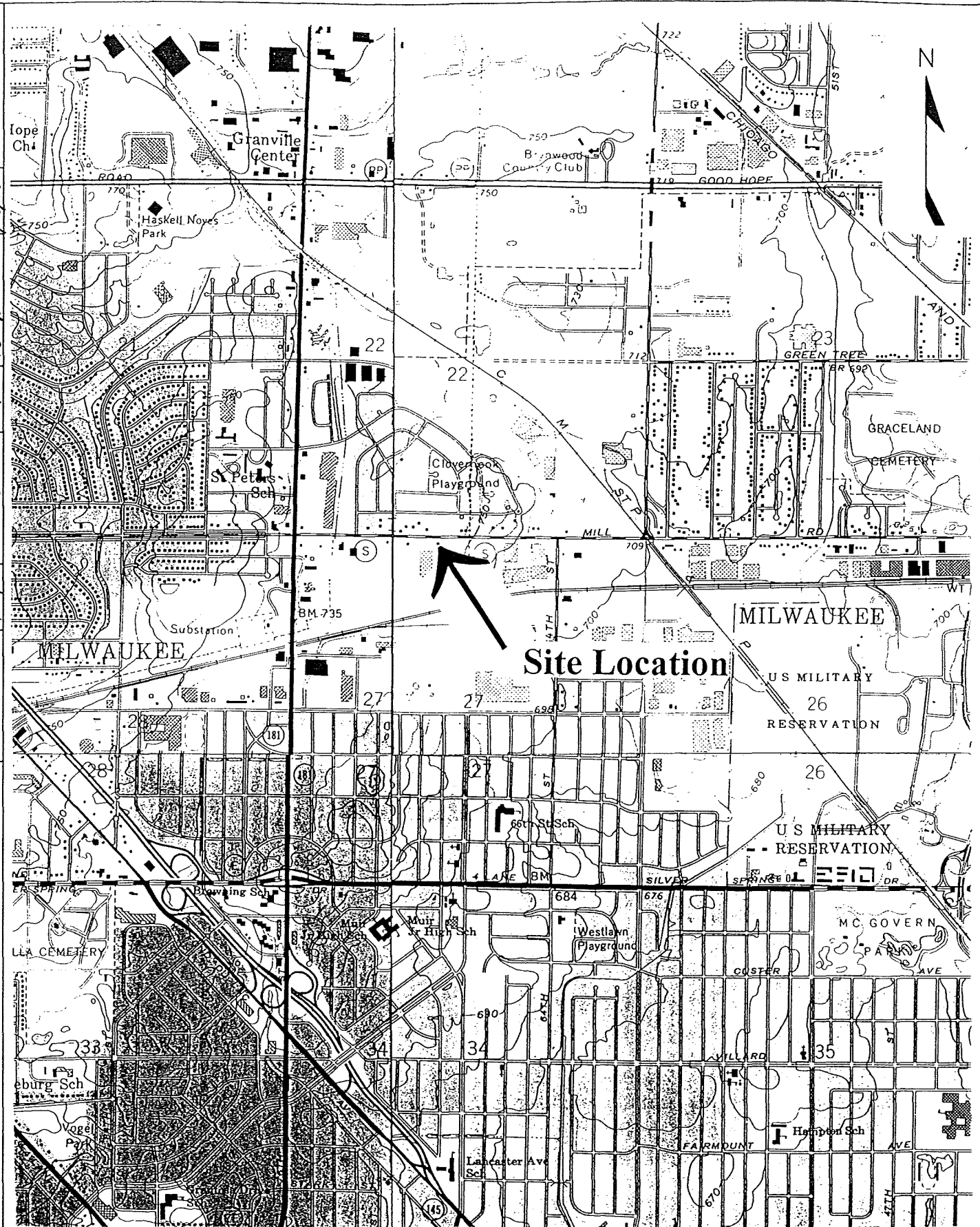
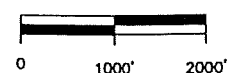


FIGURE 1

SITE LOCATION

HENTZEN COATINGS, INC.
6937 WEST MILL ROAD
MILWAUKEE, WISCONSIN 53218

SCALE
1" = 2000'



SOURCE: USGS QUADRANGLE MAPS



GEO MANAGEMENT
CONSULTANTS INCORPORATED
Representing clients with environmental concerns.

DRAFTED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	DRAWING NUMBER
NTS	1/12/98	BED	1/20/98	<i>[Signature]</i>	1/23/98	97H20-2



WEST MILL ROAD

ASPHALT
PAVEMENT

PARKING

GRASS COVERED

STORAGE

SHOP

ASPHALT

FORMER DISPENSER LOCATION

FORMER 1,500-GALLON
UNDERGROUND STORAGE TANK

GRASS

ASPHALT

GATE

MAIN FACILITY

FIGURE 2

SITE FEATURES

HENTZEN COATINGS, INC.
6937 WEST MILL ROAD
MILWAUKEE, WISCONSIN 53218

SCALE (feet)



DRAFTED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	DRAWING NUMBER
NTJ	1/20/98	BED	1/20/98	R-AT	1/23/98	97H20-3

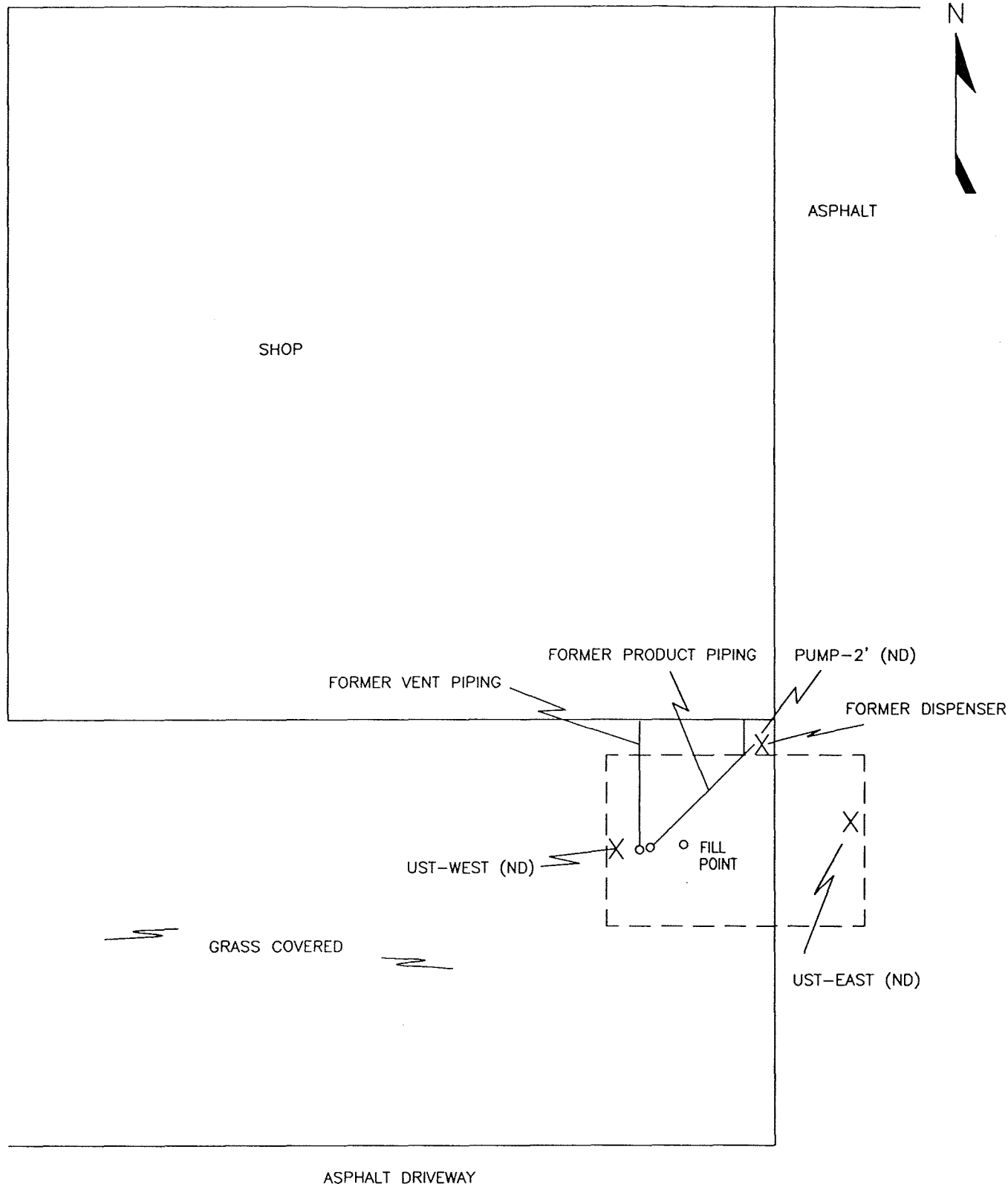
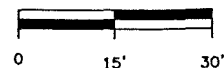


FIGURE 3
SOIL SAMPLING LOCATIONS
AND ANALYTICAL RESULTS

HENTZEN COATINGS, INC.
6937 WEST MILL ROAD
MILWAUKEE, WISCONSIN 53218

--- FORMER 15,000 GALLON UST
X - SOIL SAMPLING LOCATION
(ND) - CONCENTRATION OF GRO
ND - NONE DETECTED

SCALE (feet)



Tables

**Table 1. Soil Sample Analytical Results⁽¹⁾, 1,500-Gallon Gasoline UST,
Hentzen Coatings, Inc., 6937 West Mill Road, Milwaukee, Wisconsin.**

Sample Number	UST-West	UST-East	Pump-2'
Sample Depth (feet)	9.5	9.5	2
Headspace Reading (i.u.) ⁽²⁾	0	0	0
GRO⁽³⁾	<1.3	<1.3	<1.4

⁽¹⁾ - Results reported as milligrams per kilogram on a dry weight basis.

⁽²⁾ - Instrument units.

⁽³⁾ - Gasoline Range Organics.

hentzencoatings\ust\soiltabl.xls

Table 2. UST Contents - Water Sample Analytical Results⁽¹⁾, 1,500-Gallon Gasoline UST, Hentzen Coatings, Inc., 6937 West Mill Road, Milwaukee, Wisconsin.

Sample Number Sample Date	UST Water 12/9/97
<u>PVOCs</u>⁽²⁾	
1,2-Dichloroethane	<0.44
Benzene	<0.31
Toluene	0.41 J
Ethylbenzene	<0.35
p,m-Xylenes	<0.73
o-Xylene	<0.36
Methyl tert-butyl ether	<0.29
1,3,5-Trimethylbenzene	<0.38
1,2,4-Trimethylbenzene	0.52 J
GRO⁽³⁾	<20
Total Lead	2.4

⁽¹⁾ - Results reported as micrograms per liter or parts per billion.

⁽²⁾ - Petroleum Volatile Organic Compounds.

⁽³⁾ - Gasoline Range Organics.

J - Concentration estimated by laboratory below the Limit of Quantitation ("LOQ")

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Appendices

Appendix A

Representative Water Well Log

Well # 2

WELL CONSTRUCTION REPORT

WISCONSIN STATE BOARD OF HEALTH

WELL DRILLING DIVISION

MAR -1 1940

Note: Section 32 of the Wisconsin Well Drilling Sanitary Code, having the force and effect of law, provides that within thirty days after completion of every well the driller shall submit a report covering all essential details of construction to the State Board of Health on a form provided by the Board.

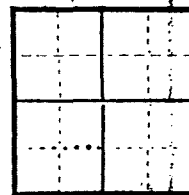
Owner Arthur J. Schmidt Driller Jake Oswald
 Street or RFD R#10 - Sta 7 Bx 398 Post Office Milwaukee Wis
 Post Office Milwaukee wis Date Feb 2-1940 Permit No. 82

LOCATION OF PREMISES

Milwaukee County Granville Town

The square below represents a section of land divided into 40 acre tracts. Mark the position of the premises in the section.

Mill Road 1/2 mile East of Wauwatosa
 Describe further by subdivision, plat, district, lake, lot,



N 1/2 Sec. 27

1st House near Mill road on R. Hand
 block, nearest principal highway, etc., whichever apply.

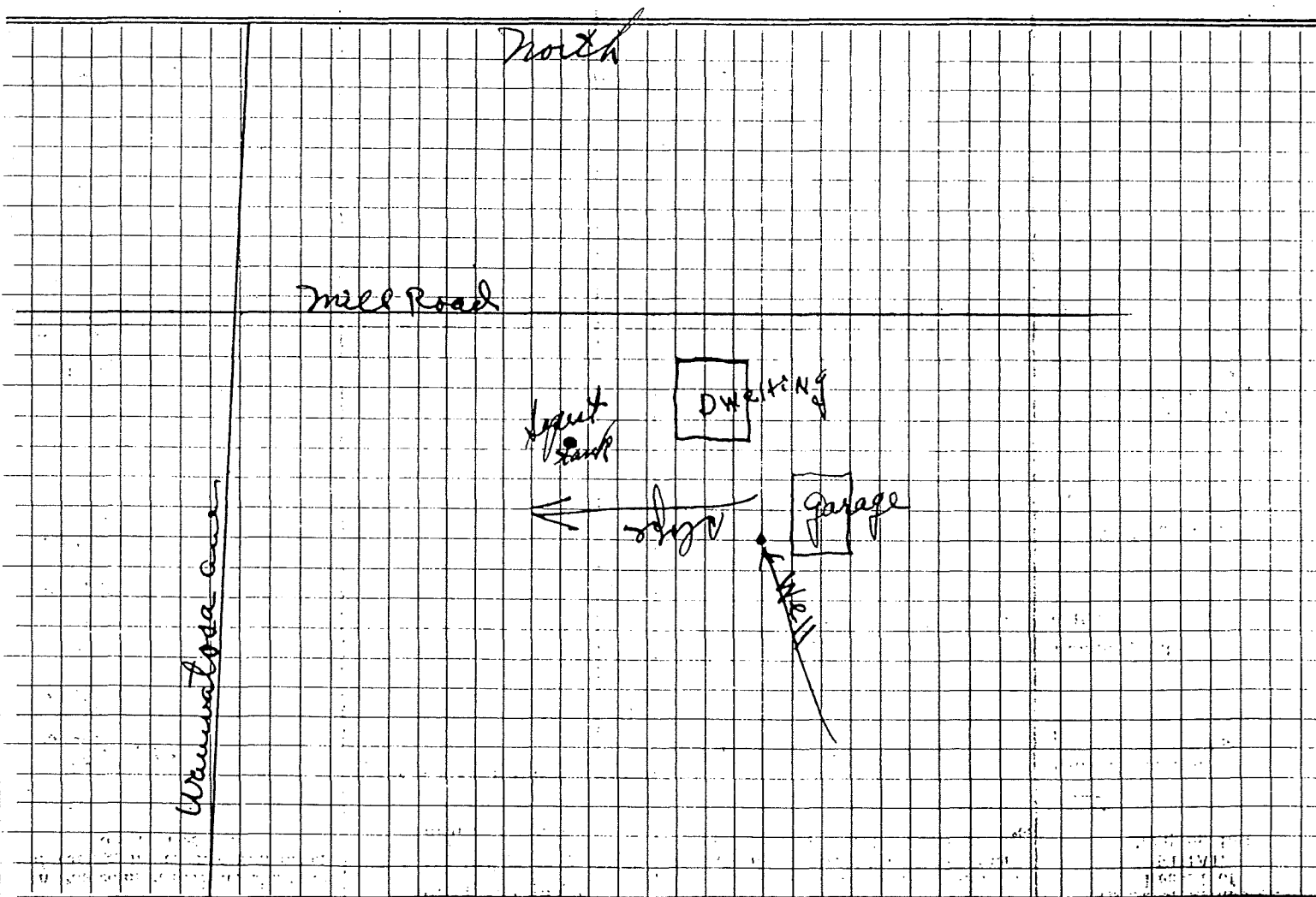
Twp. 8

side of mill road going east

Range 21 { E

DIAGRAM OF PREMISES

See discussion and illustration in Part III Well Drilling Code. In making the diagram in the space below consider 10 ft. as the distance between lines. Be sure to indicate NORTH.



Appendix B
Tank Closure Forms

Complete one form for each site closure.

CHECKLIST FOR TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:

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

CHECK ONE:
☒ UNDERGROUND
☐ ABOVEGROUND
FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE N/A BOX

Wisconsin Department of Commerce
ERS Division
Bureau of Storage Tank Regulation
P.O. Box 7969
Madison, WI 53707

A. IDENTIFICATION: (Please Print) Indicate whether closure is for: ☒ Tank System ☐ Tank Only ☐ Piping Only

1. Site Name <u>HENTZEN COORINGS</u>		2. Owner Name	
Site Street Address (not P.O. Box) <u>6937 W. Mill Rd.</u>		Owner Street Address	
<input checked="" type="checkbox"/> City <u>Milwaukee</u>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: State Zip Code
State <u>Wisc</u>	Zip Code <u>53218</u>	County <u>milw</u>	County Telephone No. (include area code) ()
3. Closure Company Name (print) <u>PETROLEUM EQUIP INC</u>		Closure Company Street Address <u>3950 W. DOWLING AVE</u>	
Closure Company Telephone No. (include area code) (<u>414</u>) <u>466-3000</u>		Closure Company City, State, Zip Code <u>Milwaukee Wisc 53209</u>	
4. Name of Company Performing Closure Assessment <u>GEO Management Consultants Inc</u>		Assessment Company Street Address, City, State, Zip Code <u>9321 N. 107TH ST. MILWAUKEE WI 53224</u>	
Telephone # (include area code) (<u>414</u>) <u>354-7600</u>	Certified Assessor Name (print) <u>Bill E. Davies</u>	Assessor Signature <u>Bill E. Davies</u>	Assessor Certification No. <u>42105</u>

Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents*	Closure Assessment
1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1500	02	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N

* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 10-Premix; 11-Waste Oil; 13-Chemical (indicate the chemical name(s) or number(s)); 14-Kerosene; 15-Aviation.

Written notification was provided to the local agent 15 days in advance of closure date. ☒ Y ☐ N ☐ NA
All local permits were obtained before beginning closure. ☒ Y ☐ N ☐ NA

Check applicable box at right in response to all statements in Sections B-E.

B. TEMPORARILY OUT OF SERVICE

Written inspector approval of temporary closure obtained, which is effective until (provide date) _____

	Remover Verified	Inspector Verified	NA
1. Product Removed	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Vent lines left open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Inventory form filed indicating temporary closure.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL

1. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.			
6. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL (continued)

- | | Remover
Verified | Inspector
Verified | NA |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------|
| 11. Tank labeled in 2" high letters after removal but before being moved from site. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE. | | | |
| 12. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. Inventory form ERS-7437 filed by owner with the Department of Commerce indicating closure by removal. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Site security is provided while the excavation is open. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> |

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.

- | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------|-------------------------------------|
| 1. Product from piping drained into tank (or other container). | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Piping disconnected from tank and removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. All liquid and residue removed from tank using explosion proof pumps or hand pumps. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. All pump motors and suction hoses bonded to tank or otherwise grounded. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. ... | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT. ABOVE GRADE. | | | |
| 6. Vent lines left connected until tanks purged. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. Tank openings temporarily plugged so vapors exit through vent. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) see Section F. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9. Tank properly cleaned to remove all sludge and residue. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Vent line disconnected or removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Inventory form filed by owner with the Department of Commerce indicating closure in place. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

E. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.

- | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------|--------------------------|
| 1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Do points of obvious contamination exist? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there strong odors in the soils? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Was a field screening instrument used to pre-screen soil sample locations? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Was a closure assessment omitted because of obvious contamination? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Was the DNR notified of suspected or obvious contamination? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Agency, office and person contacted: _____ | | | |
| 7. Contamination suspected because of: <input type="checkbox"/> Odor <input type="checkbox"/> Soil Staining <input type="checkbox"/> Free Product <input type="checkbox"/> Sheen on Groundwater <input type="checkbox"/> Field Instrument Test | | | |

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- ☒ Eductor Or Diffused Air Blower
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.
- ☐ Dry Ice
Dry Ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area.
Dry ice evaporated before proceeding.
- ☐ Inert Gas (CO₂ or N₂) **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 opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.
- ☐ Tank atmosphere monitored for flammable or combustible vapor levels.
Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

3. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

I. REMOVER/CLEANER INFORMATION

<u>DUANE LINDHORST</u>	<u>[Signature]</u>	<u>42183</u>	<u>12-9-97</u>
Remover Name (print)	Remover Signature	Remover Certification No.	Date Signed

INSPECTOR INFORMATION

<u>T. Tempel</u>	<u>[Signature]</u>	<u>70746</u>
Inspector Name (print)	Inspector Signature	Inspector Certification No.
<u>City of Michigan</u>	<u>286-2590</u>	<u>12/9/97</u>
FDID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed

TANK INVENTORY FORM ERS-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE CHECKLIST

DEPT OF COMMERCE/BUREAU OF STORAGE TANK REGULATION

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Department of Commerce
ERS Division
Bureau of Storage Tank Regulation
P.O. Box 7969, Madison, WI 53707

WI Tank ID#: _____

Information Required By Section 101.142, Wis. Stats.

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☐ Yes ☐ No If yes, are you correcting/updating information only? ☐ Yes ☐ No

Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)]

This registration applies to a tank that is (check one):			Fire Department providing fire coverage where tank is located:	
1A. <input type="checkbox"/> In Use or	4. <input checked="" type="checkbox"/> Closed - Tank Removed	8. <input type="checkbox"/> Ownership Change (Indicate new owner name in block 2)	<input checked="" type="checkbox"/> City <input type="checkbox"/> Village	
1B. <input type="checkbox"/> Newly Installed	6. <input type="checkbox"/> Closed - Filled with Inert Materials		<input type="checkbox"/> Town of <u>Milwaukee</u>	
2. <input type="checkbox"/> Abandoned with Product	7. <input type="checkbox"/> Out of Service - Provide Date: _____			
3. <input type="checkbox"/> Abandoned No Product (empty) or with Water				
A. IDENTIFICATION (Please Print)				
1. Tank Site Name		Site Address	Site Telephone Number	
<u>HENTZEN COPTINGS</u>		<u>6937 W. Mill Rd.</u>	()	
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		State	Zip Code	County
<u>Milwaukee</u>		<u>Wis</u>	<u>53218</u>	
2. Tank Owner Name		Mailing Address	Telephone Number	
<input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:		State	Zip Code	County
3. Previous Name		Previous site address if different than #1		
4. Tank Age (date installed, if known or years old)		5. Tank Capacity (gallons)	6. If more than one tank is located at facility, please provide tank #	

B. TYPE OF USER (check one)				
1. <input type="checkbox"/> Gas/Retail Sales	2. <input type="checkbox"/> Bulk Storage	3. <input type="checkbox"/> Utility	4. <input type="checkbox"/> Mercantile/Commercial	5. <input checked="" type="checkbox"/> Industrial
6. <input type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential	9. <input type="checkbox"/> Agricultural	10. <input type="checkbox"/> Other (specify):
11. <input type="checkbox"/> Tribal Nation	12. <input type="checkbox"/> Federal Property	13. <input type="checkbox"/> Backup Generator		
C. TANK CONSTRUCTION (check one)				
1. <input type="checkbox"/> Bare Steel				
2. <input type="checkbox"/> Cathodically Protected & Coated Steel (Check one: A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)				
3. <input type="checkbox"/> Coated Steel				
4. <input type="checkbox"/> Fiberglass				
5. <input type="checkbox"/> Other (specify):				
6. <input type="checkbox"/> Lined - Date: _____				
7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite				
9. <input type="checkbox"/> Unknown				
Approval: 1. <input type="checkbox"/> Nat'l Std.			2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other:	
Is tank double walled? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Overfill Protection Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, identify type:			Spill Containment? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Tank leak detection method:				
1. <input type="checkbox"/> Automatic tank gauging				
2. <input type="checkbox"/> Vapor monitoring				
3. <input type="checkbox"/> Groundwater monitoring				
4. <input type="checkbox"/> Inventory control and tightness testing				
5. <input type="checkbox"/> Interstitial monitoring				
7. <input type="checkbox"/> Manual tank gauging (only for tanks of 1,000 gallons or less)				
8. <input type="checkbox"/> Statistical Inventory Reconciliation (SIR)				

D. PIPING CONSTRUCTION				
1. <input type="checkbox"/> Bare Steel				
2. <input type="checkbox"/> Cathodically Protected & Coated Steel (Check one: A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)				
3. <input type="checkbox"/> Coated Steel				
4. <input type="checkbox"/> Fiberglass				
5. <input type="checkbox"/> Other (Specify):				
9. <input type="checkbox"/> Unknown				
Vapor Recovery/Stage II				
4. <input type="checkbox"/> Fiberglass				
6. <input type="checkbox"/> Flexible				
5. <input type="checkbox"/> Other (specify):				
<input type="checkbox"/> CARB #: _____				
<input type="checkbox"/> Operational - Provide Date (mo/day/yr):				
Piping System Type:				
1. <input type="checkbox"/> Pressurized piping with A. <input type="checkbox"/> auto shutoff; B. <input type="checkbox"/> alarm or C. <input type="checkbox"/> flow restrictor				
2. <input type="checkbox"/> Suction piping with check valve at tank				
3. <input type="checkbox"/> Suction piping with check valve at pump and inspectable				
4. <input type="checkbox"/> Not needed if waste oil				
Piping leak detection method: used if pressurized or check valve at tank:				
1. <input type="checkbox"/> Vapor monitoring				
2. <input type="checkbox"/> Interstitial monitoring				
3. <input type="checkbox"/> Groundwater monitoring				
4. <input type="checkbox"/> Tightness testing				
5. <input type="checkbox"/> Line leak detector				
6. <input type="checkbox"/> Not required				
8. <input type="checkbox"/> SIR				
Approval: 1. <input type="checkbox"/> Nat'l Std.			2. <input type="checkbox"/> UL 3. <input type="checkbox"/> Other:	
Is pipe double walled? <input type="checkbox"/> Yes <input type="checkbox"/> No				

E. TANK CONTENTS				
1. <input type="checkbox"/> Diesel				
2. <input type="checkbox"/> Leaded				
3. <input type="checkbox"/> Unleaded				
4. <input type="checkbox"/> Fuel Oil				
5. <input type="checkbox"/> Gasohol				
6. <input type="checkbox"/> Other (Specify):				
7. <input type="checkbox"/> Empty*				
8. <input type="checkbox"/> Sand/Gravel/Slurry*				
9. <input type="checkbox"/> Unknown*				
10. <input type="checkbox"/> Premix				
11. <input type="checkbox"/> Waste/Used Motor Oil				
13. <input type="checkbox"/> Chemical _____				
14. <input type="checkbox"/> Kerosene				
15. <input type="checkbox"/> Aviation				
(Indicate chemical name and number)				

* If 7, 8, 9, or 13 is chosen, this tank is NOT PECFA eligible.

If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr):		Has a site assessment been completed (see reverse side for details)	
<u>12-9-97</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Owner or Operator Name (please print):		Indicate whether:	
<u>Kimi Fahnestock</u>		<input type="checkbox"/> Owner or <input type="checkbox"/> Operator	
Owner or Operator Signature:		Date Signed	
<u>Kimi Fahnestock</u>		<u>12-9-97</u>	

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



PETROLEUM EQUIPMENT, INC.

Fueling, Lube, Hoists and Tank Systems Designed, Installed and Serviced Since 1932

TANK DISPOSAL STATEMENT

Petroleum Equipment, Inc., claims responsibility for properly removing one (1) steel underground storage tank and associated piping and fittings at Hentzen Coatings, 6937 W. Mill Rd., Milwaukee WI, in accordance with all applicable local, federal and state rules and regulations. Petroleum Equipment, Inc., certifies that it has obtained the required permits for closure of the tank and has properly decontaminated the tank and it was cut up on site and disposed of as scrap steel at Midwest Iron and Metal, 6760 N. Industrial Road, Milwaukee, WI. Once the tank leaves the Hentzen Coatings property, ownership of it transfers to Midwest Iron and Metal.

Authorized Signature: _____

For: Petroleum Equipment, Inc.

Date: _____

01/07/1998

S5167

Thank You!

DRIVER: PLEASE SIGN BELOW)

REFERENCE NO.
367611
02/25/1998

(PLEASE SIGN HERE)
Loc: MILW
County: MILWAUKEE
ST Pct: WI 100%

GROSS: 0.000 MAN WT
TARE: 0.000 MAN WT
NET: 0.000

Oper Time Date
In: RFP 02:44 PM 02/25/1998
Out: RFP 02:45 PM 02/25/1998

Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI
414-253-8620 FAX: 414-253-1302

COMMENTS

CUSTOMER NO. 015033 TRUCK NO. 247284
CUSTOMER
HENTZEN COATINGS, INC
6937 WEST MILL ROAD
MILWAUKEE WI 53218

PROFILE NO. BI0467048
MANIFEST NO. 639196
PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
DRB	DRUM DISP./BIOREMEDI	5.00	540.00 Y
TRS	TRANSPORTATION CHRG.	1.00	100.00 Y
	TOTAL GATE FEE:		640.00

SPECIAL WASTE MANIFEST DISPOSAL TICKET

639196

ORCHARD RIDGE RECYCLING
and DISPOSAL FACILITY



A Waste Management Company

BILL TO: Hentzen Coatings, Inc.

TRANSPORTER: Orchard Ridge RDF/WM Ind. Services

GENERATOR: Hentzen Coatings

GENERATORS SIGNATURE: [Signature] 2/25/98
Date

WASTE DESCRIPTION: Contaminated Pea Gravel

PROFILE # BI0467048

ACCEPTED BY: [Signature] 2/25/98
Date

DRIVERS SIGNATURE: [Signature] 2/25/98
Date

Hentzen Coatings
6937 W Mill Road
Milwaukee, WI

Meet Bob Hackenberg of Geo Management
at 1:00 PM Wednesday 2/25/98 in front
parking lot on Mill Road.

TRUCK NO. 247284 6 drums TONS/YARDS

Appendix C

Field Methods

APPENDIX C

FIELD METHODS

Soil Sampling

The following procedures were used to collect the UST closure assessment soil samples:

- Duplicate soil samples were collected in native soils from approximately 1 foot below each end of the UST and approximately 1.5 feet below the former dispenser location.
- Samples were collected from the excavation using a decontaminated stainless steel sampler using new disposable latex gloves. To avoid loss of volatiles, care was taken to collect soils which were not exposed to the atmosphere during excavation.
- From each sampling location, one soil sample was prepared for IOC headspace field screening and the remaining soil sample (the duplicate sample) was prepared for laboratory analysis. Each field screening sample was placed in a clean glass container and immediately capped with a metal lid. The following procedures were used in collection of soils for laboratory analysis:
 - For GRO sample analysis, approximately 25-30-grams of soil was placed in each laboratory supplied sample container and preserved with methanol according to laboratory method requirements.
 - For dry weight determination, soil was placed in a resealable plastic bag with no preservative.
 - Immediately following preparation, all laboratory analysis samples were placed in an ice-filled cooler to maintain samples at or below 4⁰ C and subsequently delivered to MVTL Laboratories, Inc., 140 East Ryan Road, Oak Creek, Wisconsin for GRO analysis.

Field Screening

Field screening for IOC content was conducted with a Model 580B Thermo Environmental Instruments OVM. The OVM is equipped with a 10.6 eV lamp, a positive displacement pump, and is calibrated daily to an isobutylene standard of 100 ppm. The following IOC field screening procedures were used:

- A portion of soil was transferred to a clean sample container and capped with a metal screw lid.
- The samples were allowed to temperature equilibrate.
- The samples were agitated for at least 30 seconds to break up the soil and release vapors (if any).
- Following temperature equilibration and agitation, the metal lid was punctured and the OVM probe was immediately inserted into the headspace. The highest IOC reading, in ppm i.u., was then recorded.

Water Sampling

- Water was collected directly from the UST using a new, polypropylene beaker and transferred directly to the laboratory supplied sample containers.
- The GRO/PVOC samples were preserved with hydrochloric acid and the total lead sample was preserved with nitric acid, each to a pH below 2. The total lead sample was not field filtered.
- Immediately following preparation, the water samples were placed in an ice-filled cooler to maintain samples at or below 4⁰ C and subsequently delivered to MVTL Laboratories, Inc., 140 East Ryan Road, Oak Creek, Wisconsin for GRO, PVOC, and lead analyses.

Appendix D

Soil and Water Sample Laboratory Reports



LABORATORIES, Inc.

140 E. Ryan Road, Oak Creek, WI 53154-4599
414-764-7005 • FAX 414-764-0486 • 1-800-422-2195

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Page: 1



WI DNR Lab Certification #241283020

FINAL REPORT

BOB HACKENBERG
GEO MGMT CONSULTANTS INC
PO BOX 24260
MILWAUKEE WI 53223-0260

Report Date: 15 Dec 1997
Lab Number: 97-N829
Work Order #: 26-487
Lab Matrix: SL
Account #: 030192
Date Sampled: 9 Dec 1997 9:35
Sampled By: Bill Davies
Date Received: 10 Dec 1997 15:02

Temperature at Receipt: RECEIVED ON ICE
Purchase Order Number: 97H20
Chain of Custody Number: 25891

Project Name: Hentzen
Sample Desc: UST-West Soil

Project Number: 97H20

Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	LOD	LOQ	Procedure	Test Date
Percent Moisture	12	N/A	%	0.1	0.1	SW 5030	11 Dec 1997
Gasoline Range Organics	< 1.1	< 1.3	mg/Kg	1.3	4.3	WIMODGRO	11 Dec 1997

Approved by:


Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.
All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.

N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected

D = Detected below the LOQ.

J = Estimated below the LOQ.

Elevated Detection Limits:

@ = Due to matrix interference.

= Due to sample concentration.

\$ = Due to sample quantity.

+ = Due to extract volume.

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.



LABORATORIES, Inc.

140 E. Ryan Road, Oak Creek, WI 53154-4599
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Page: 1



WI DNR Lab Certification #241283020

FINAL REPORT

BOB HACKENBERG
GEO MGMT CONSULTANTS INC
PO BOX 24260
MILWAUKEE WI 53223-0260

Report Date: 15 Dec 1997

Lab Number: 97-N830

Work Order #: 26-487

Lab Matrix: SL

Account #: 030192

Date Sampled: 9 Dec 1997 9:40

Sampled By: Bill Davies

Date Received: 10 Dec 1997 15:02

Temperature at Receipt: RECEIVED ON ICE

Purchase Order Number: 97H20

Chain of Custody Number: 25891

Project Name: Hentzen
Sample Desc: UST-East Soil

Project Number: 97H20

Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	LOD	LOQ	Procedure	Test Date
Percent Moisture	11	N/A	%	0.1	0.1	SW 5030	11 Dec 1997
Gasoline Range Organics	< 1.1	< 1.3	mg/Kg	1.3	4.3	WIMODGRO	11 Dec 1997

Approved by:


Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.

All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.

N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected

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WI DNR Lab Certification #241283020

FINAL REPORT

BOB HACKENBERG
GEO MGMT CONSULTANTS INC
PO BOX 24260
MILWAUKEE WI 53223-0260

Report Date: 15 Dec 1997

Lab Number: 97-N831

Work Order #: 26-487

Lab Matrix: SL

Account #: 030192

Date Sampled: 9 Dec 1997 9:40

Sampled By: Bill Davies

Date Received: 10 Dec 1997 15:02

Temperature at Receipt: RECEIVED ON ICE

Purchase Order Number: 97H20

Chain of Custody Number: 25891


Project Name: Hentzen
Sample Desc: Pump-2' Soil

Project Number: 97H20

Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	LOD	LOQ	Procedure	Test Date
Percent Moisture	17	N/A	%	0.1	0.1	SW 5030	11 Dec 1997
Gasoline Range Organics	< 1.1	< 1.4	mg/Kg	1.4	4.6	WIMODGRO	11 Dec 1997

Approved by:


Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.

All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.

N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected

D = Detected below the LOQ. J = Estimated below the LOQ.

Elevated Detection Limits:

@ = Due to matrix interference.

= Due to sample concentration.

\$ = Due to sample quantity.

+ = Due to extract volume.

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.



LABORATORIES, Inc.

140 E. Ryan Road, Oak Creek, WI 53154-4599
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Page: 1

MEMBER



WI DNR Lab Certification #241283020

FINAL REPORT

BOB HACKENBERG
GEO MGMT CONSULTANTS INC
PO BOX 24260
MILWAUKEE WI 53223-0260

Report Date: 22 Dec 1997

Lab Number: 97-L1982

Work Order #: 26-488

Lab Matrix: GW

Account #: 030192

Date Sampled: 9 Dec 1997 11:15

Sampled By: Bill Davies

Date Received: 10 Dec 1997 15:08

Temperature at Receipt: RECEIVED ON ICE

Purchase Order Number: 97H20

Chain of Custody Number: 25891

Project Name: Hentzen

Sample Desc: UST Water

Project Number: 97H20

Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	LOD	LOQ	Procedure	Test Date
Digestion, SW 3005AF						SW 3005A	18 Dec 1997
pH (GC VOCs 8020/GRO)	< 2	N/A	units	2.0	2.0	SW 8020	11 Dec 1997
1,2-Dichloroethane	< 0.44	N/A	ug/L	0.44	1.4	SW 8021	17 Dec 1997
Benzene	< 0.31	N/A	ug/L	0.31	1.0	SW 8021	17 Dec 1997
Toluene	0.41 J	N/A	ug/L	0.32	1.0	SW 8021	17 Dec 1997
Ethyl Benzene	< 0.35	N/A	ug/L	0.35	1.1	SW 8021	17 Dec 1997
P,M - Xylenes	< 0.73	N/A	ug/L	0.73	2.4	SW 8021	17 Dec 1997
o-Xylene	< 0.36	N/A	ug/L	0.36	1.2	SW 8021	17 Dec 1997
Methyl tert-butyl ether	< 0.29	N/A	ug/L	0.29	0.98	SW 8021	17 Dec 1997
1,3,5-Trimethylbenzene	< 0.38	N/A	ug/L	0.38	1.2	SW 8021	17 Dec 1997
1,2,4-Trimethylbenzene	0.52 J	N/A	ug/L	0.36	1.2	SW 8021	17 Dec 1997
Gasoline Range Organics	< 20	N/A	ug/L	20	65	WIMODGRO	11 Dec 1997
Lead, Soluble	2.4	N/A	ug/L	0.73	2.4	SW 7421	18 Dec 1997

Approved by:

Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.

All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.

N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected

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J = Estimated below the LOQ.

Elevated Detection Limits:

@ = Due to matrix interference.

= Due to sample concentration.

\$ = Due to sample quantity.

+ = Due to extract volume.

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.



THE PEOPLE WE SERVE . . . CARE ABOUT THE ENVIRONMENT Chain-of-Custody: 25891

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

(1) CLIENT: <u>GEO Management Consultants</u> PROJECT NAME/#: <u>Hentzen/97H20</u> PROJECT MANAGER: <u>Bob Hickenloper</u> SAMPLER: <u>Bill Davies</u> P.O. # <u>97H20</u>			(3) USE STATE WPDES NPDES RCRA PECFA OTHER		(5) MATRIX										(6) ANALYSIS REQUESTED (METHODS & DETECTION LIMITS)										LAB USE ONLY WORK ORDER #: ACCT # <u>030192</u> DATE <u>12/10/97</u> TEMP <u>NR</u> / <u>ROI</u> MVTL WORK ORDER #:						
(2) SAMPLE IDENTIFICATION		DATE		TIME		(4) GRAB COMPOSITE		# OF CONTAINERS		SOIL		GROUND WATER		WASTE		WASTEWATER		OTHER		PRESERVATION TYPE		GRO		GRO/PVOC		Lead		(7) REMARKS			
(1) <u>UST - West</u>		<u>12-9-97</u>		<u>9:35</u> ^{AM} / _{PM}		<u>X</u>		<u>1</u>		<u>X</u>										<u>MeOH/4°C</u>		<u>X</u>						<u>11/8/97</u>			
(2) <u>UST - East</u>		<u>12-9-97</u>		<u>9:40</u> ^{AM} / _{PM}		<u>X</u>		<u>1</u>		<u>X</u>										<u>MeOH/4°C</u>		<u>X</u>						<u>11/8/97</u>			
(3) <u>UST - East Pump-2'</u>		<u>12-9-97</u>		<u>9:50</u> ^{AM} / _{PM}		<u>X</u>		<u>1</u>		<u>X</u>										<u>MeOH/4°C</u>		<u>X</u>						<u>11/8/97</u>			
(4)				<u>AM</u> / _{PM}																											
(5) <u>UST - Water</u>		<u>12-9-97</u>		<u>11:15</u> ^{AM} / _{PM}		<u>X</u>		<u>3</u>		<u>X</u>										<u>HCl/4°C</u>		<u>X</u>		<u>X</u>		<u>GRO/PVOC + 12 PCA</u>		<u>97-L1982</u>			
(6)				<u>AM</u> / _{PM}																											
(7)				<u>AM</u> / _{PM}																											
(8)				<u>AM</u> / _{PM}																											
TURNAROUND TIME IN WORKING DAYS NORMAL *1 *2 *3 *4 *5 *6 *7 *8 *9 *10 * FOR EXPEDITED TURNAROUND TIME CALL CLIENT SERVICES TO CONFIRM AVAILABILITY AT 414-768-7460 EXPEDITED RESULTS TO BE TRANSMITTED VIA: FAX _____ PHONE # _____ FAX # _____ PHONE # _____																				RELINQUISHED BY		DATE		TIME		RECEIVED BY		DATE		TIME	
																				<u>Bill Davies</u>		<u>12-10-97</u>		<u>10:45</u> ^{AM} / _{PM}		<u>K. W. Murphy</u>		<u>12/10/97</u>		<u>10:45</u> ^{AM} / _{PM}	
																				<u>K. W. Murphy</u>		<u>12/10/97</u>		<u>12:00</u> ^{AM} / _{PM}		<u>P. Hammer</u>		<u>12/10/97</u>		<u>12:00</u> ^{AM} / _{PM}	
																				<u>P. Hammer</u>		<u>12/10/97</u>		<u>12:00</u> ^{AM} / _{PM}		<u>Act</u>					
DATA PACKAGE OPTIONS AVAILABLE FOR A FEE (PLEASE CIRCLE IF REQUIRED) PACKAGE A B SEE BACK FOR COMPLETE PACKAGE DESCRIPTIONS																															
OTHER SPECIAL INSTRUCTIONS:																				IN CASE WE HAVE QUESTIONS WHEN SAMPLES ARRIVE, MVTL LABORATORIES, INC. SHOULD CALL: NAME: <u>Bill Davies</u> PHONE # <u>354-7600</u> SEND REPORTS TO <u>GEO Management Consultants</u>											