

**UNDERGROUND STORAGE TANK
ABANDONMENT - USH 151
MANITOWOC, WISCONSIN
WisDOT PROJECT ID #4100-09-71**

**PREPARED FOR
WISCONSIN DEPARTMENT OF
TRANSPORTATION**

**PREPARED BY
RMT, INC.
MADISON, WISCONSIN**

December 2001

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Staff Engineer

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Vice President, Midwest Region

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Executive Summary

The Wisconsin Department of Transportation (WisDOT) and the City of Manitowoc have reconstructed a portion of United States Highway (USH) 151 in the city of Manitowoc. The USH 151 project consisted of the realignment and reconstruction of the intersection of Calumet Avenue, South 26th Street, and Custer Street. On September 19, 2001, during construction of a storm sewer as part of the highway reconstruction project, an underground storage tank (UST) was encountered. The WisDOT retained RMT, Inc. (RMT), to provide construction management services and documentation of the abandonment of underground storage tanks (USTs) that were within the highway construction limits.

The subject property, formerly known as Susie's Restaurant, was acquired by the City of Manitowoc from Paul and Susan Mertens in August 1997. Prior uses of the site included Manitowoc Oil Company and Normington Cleaners. With the exemption for future investigations or remediation at the site under Act 453, provided by the Wisconsin Department of Natural Resources (WDNR) to the City of Manitowoc at the time the Susie's Restaurant site was acquired by the City, it is assumed that any future investigations or remediation at the site will be the responsibility of the WDNR or the previous owners of the Susie's Restaurant site.

On September 21, 2001, RMT and its subcontractor SGS, Inc. (SGS), mobilized to the site to abandon the UST. Soil samples were collected for laboratory analysis and field-screening with a photoionization detector (PID). Three tanks were located and abandoned by removal. All water from the tanks was removed, contained in 55-gallon drums, and stored at the WisDOT job trailer for future off-site disposal by Onyx Environmental.

During the abandonment of the three USTs, obvious contamination was present, noted by staining and odor. The contamination appeared to be present in unsaturated soil around and below the USTs. The soil above the USTs did not appear to be impacted. There were holes in the bottom of two of the three USTs.

Laboratory analytical results confirmed the presence of volatile organic compounds (VOCs) in the soil underneath the USTs and within the water contained in the USTs. RMT has notified the WDNR of the release (see Appendix A).

The WisDOT is not the responsible party for the release from the USTs. Future soil and groundwater investigations and remediation, if required, should be performed by the responsible party or the WDNR.

Section 1

Introduction

1.1 Background

The Wisconsin Department of Transportation (WisDOT) and the City of Manitowoc have reconstructed a portion of United States Highway (USH) 151 in the city of Manitowoc (Figure 1). The USH 151 project consisted of the realignment and reconstruction of the intersection of Calumet Avenue, South 26th Street, and Custer Street (Figure 2). The realigned roadway occupies the site previously occupied by Susie's Restaurant. This site is known to be contaminated with volatile organic compounds (VOCs) in unsaturated soil and groundwater, based on previous site investigations performed by STS Consultants, Ltd. (STS), and RMT, Inc. (RMT). As a result, special provisions and a materials handling plan for the management and off-site disposal of contaminated soil that was required to be excavated during construction were prepared and approved by the Wisconsin Department of Natural Resources (WDNR) (RMT, 2001).

The subject property, formerly known as Susie's Restaurant, was acquired by the City of Manitowoc from Paul and Susan Mertens in August 1997. Prior uses of the site included Manitowoc Oil Company and Normington Cleaners. With the exemption for future investigations or remediation at the site under Act 453, provided by the Wisconsin Department of Natural Resources (WDNR) to the City of Manitowoc at the time the Susie's Restaurant site was acquired by the City, it is assumed that any future investigations or remediation at the site will be the responsibility of the WDNR or the previous owners of the Susie's Restaurant site.

On September 19, 2001, Vinton Construction, the selected highway contractor, encountered an underground storage tank (UST) during storm sewer construction. Work in that area was halted until the UST could be removed. On September 21, 2001, RMT and its subcontractor, SGS, Inc. (SGS), of Merrill, Wisconsin, mobilized to the site to abandon three USTs found to be within the construction limits.

RMT's subcontractor and site personnel for this project were as follows:

Jay Schleuter
SGS, Inc.
W4490 Pope Road
Merrill, Wisconsin 54452
(715) 539-2803
WI LUST Remover/Cleaner Cert. #02345

Dan Haak
RMT, Inc.
744 Heartland Trail
Madison, WI 53717
(608) 831-4444
WI LUST Site Assessor Cert. #683396

1.2 Purpose and Scope

The purpose of this report is to document the tank abandonments within the USH 151 construction limits in Manitowoc, Wisconsin. This report has been prepared in substantial conformance with Wisconsin Administrative Code (WAC), Department of Commerce (DCOM), Chapter COMM 10, "Flammable and Combustible Liquids."

Section 2

Description of the Site Activities

2.1 Tank Abandonment - September 21, 2001

On September 21, 2001, RMT and SGS mobilized to the site to abandon by removal three USTs and their associated piping in accordance with DCOM 10. Site photographs are provided in Appendix B. All three USTs were located within the construction limits and required removal in order to complete the storm sewer construction (Figure 3). Prior to removal, clean overburden soil was removed and later used as backfill for the sewer construction.

All three USTs were checked using a combustible gas indicator for internal explosive environments. USTs #2 and #3 required inerting with carbon dioxide prior to removal. After each UST registered below 10 percent of the Lower Explosive Limit (LEL), they were removed, and cut open for cleaning.

UST #1 was removed first. This tank, which was positioned vertically, had a capacity of approximately 500 gallons, a conical bottom, and had an approximate 1-inch-diameter hole about 10 inches from the bottom. Approximately 25 gallons of water were removed during cleaning and contained in a 55-gallon DOT-approved drum.

UST #2 was discovered when removing the piping from UST #1. This tank had the same size and shape as UST #1. UST #2 had several small holes located near the bottom of the tank. Approximately 55 gallons of water were removed from the tank during cleaning and contained in a 55-gallon DOT-approved drum.

UST #3 was discovered when removing the piping from USTs #1 and #2. It was aligned vertically like USTs #1 and #2, but it was smaller, with a capacity of approximately 200 gallons. UST #3 appeared to be in good condition, but contained about 15 gallons of water, which were removed during cleaning and contained in a 55-gallon DOT-approved drum.

All water removed from the USTs that was placed in DOT-approved 55-gallon drums was transported to the WisDOT job trailer for pickup and disposal by Onyx under the State of Wisconsin's Hazardous Waste Disposal Contract. Appendix C contains the analytical results of the water removed from the USTs: Drum 1 from UST #3, and Drum 2 for USTs #1 and #2. Following cleaning, the tanks and associated piping were reclaimed as scrap metal (see Appendix D for tank disposal documentation). The tank closure checklist and tank inventory

records are provided in Appendices E and F, respectively. Drum inventory forms are provided in Appendix G.

2.2 Soil Sampling and Analysis

On September 21, 2001, following the removal of the USTs, RMT collected one soil sample at the base of the USTs to confirm a release. It was submitted to EnChem, Inc., for analysis of diesel range organics (DRO), gasoline range organics (GRO), and VOCs (SW846 8260B) under chain-of-custody documentation. Soil samples were collected and weighed in pretarred glass jars. GRO and VOC samples were immediately preserved using methanol, and all samples were immediately placed on ice.

For the soil sample collected, a duplicate sample bag was collected for field-screening. In addition, four soil samples were collected around the USTs during tank abandonments for field-screening purposes. The soil collected for field-screening was allowed to sit for approximately 10 minutes. Prior to its use, the PID was calibrated to an isobutylene standard. The air in the headspace of each bag was then sampled by inserting the probe of the PID through a small opening. Soil was also checked for any visual staining, noticeable odors, or moisture. A summary of field-screening results is presented in Table 1. Analytical results of both soil and groundwater immediately adjacent to or contained in the USTs indicate the presence of both petroleum and chlorinated solvent. The USTs were likely used to store product or spent solvents, and the presence of petroleum constituents is likely a result of a separate source that may have migrated in the groundwater.

Section 3

Findings and Conclusions

RMT's observations, the field-screening results, and the laboratory analysis results indicate the following:

- Three USTs were abandoned in accordance with the requirements of DCOM 10. Closure assessments were performed on all three USTs, and documentation shows that there was evidence of a release from these USTs.
- In the area of USTs #1, #2, and #3, VOC-impacted soil remains in place (see Appendix C for analytical data).
- Impacts to groundwater have not been evaluated as part of the UST abandonment; however, based on the proximity of VOC-impacted soil to groundwater, visual observations, and previous groundwater investigations, impacts likely remain in the saturated zone in the vicinity of the USTs.
- Based on the results of the analysis of the soil samples collected at the base of the USTs and the analysis of the water from the USTs, the USTs were likely used to store product or spent solvents used in conjunction with the operations of the former Normington Cleaners that was located on the site.
- The WisDOT is not the responsible party for the USTs or the soil and groundwater contamination found. Any future investigations or remediation of remaining soil and groundwater contamination are not the responsibility of the WisDOT. The WisDOT has no plans for additional investigation or remediation at these locations.

Section 4

Recommendations

RMT recommends that the WisDOT take no further action in investigating or remediating soil or groundwater at these locations. The WisDOT should submit this report to the WDNR so that the data can be used to evaluate whether any additional work is needed to address VOC impacts in the soil and/or groundwater from the release from the USTs.

Section 5

References

RMT, Inc. 2001. Materials handling plan. USH 151 Manitowoc, Wisconsin. May 2001.

Table 1
Summary of Soil Sample Field-Screening Results

SAMPLE ID	DEPTH OF SAMPLE (feet bgs)	PID READING (i.u.)	COMMENTS
Base	9	91	Odor
TS-1	8 ½	482	Strong odor
TS-2	6	304	Odor
TS-3	3 ½	7	No odor
TS-4	2 ½	ND	No odor

Notes:

The depth to groundwater is approximately 9 ½ feet bgs.

bgs = below ground surface.

i.u. = instrument units.

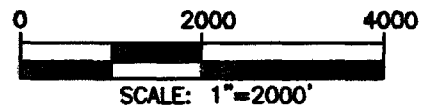
ND = no detect.

Scale: 1"=1'
 Dwg Size: 54248 Bytes
 Plot Date: Thursday, October 4, 2001
 Plot Time: 08:59:35 AM
 Attached Xref's: No xref's attached.
 Attached Image's: No images attached



STATE LOCATION

SOURCE: BASE MAP FROM MANITOWOC
 7.5 MIN. USGS QUADRANGLE.
 LOCATION: SE1/4, NE1/4 SEC 25, T19N, R23E



J:\10716\04\SLM-0.10716.04-001.dwg
 Drawing Name: SIEWERTD
 Operator Name: SIEWERTD



SITE LOCATOR MAP
PROJECT LD. #4100-09-71

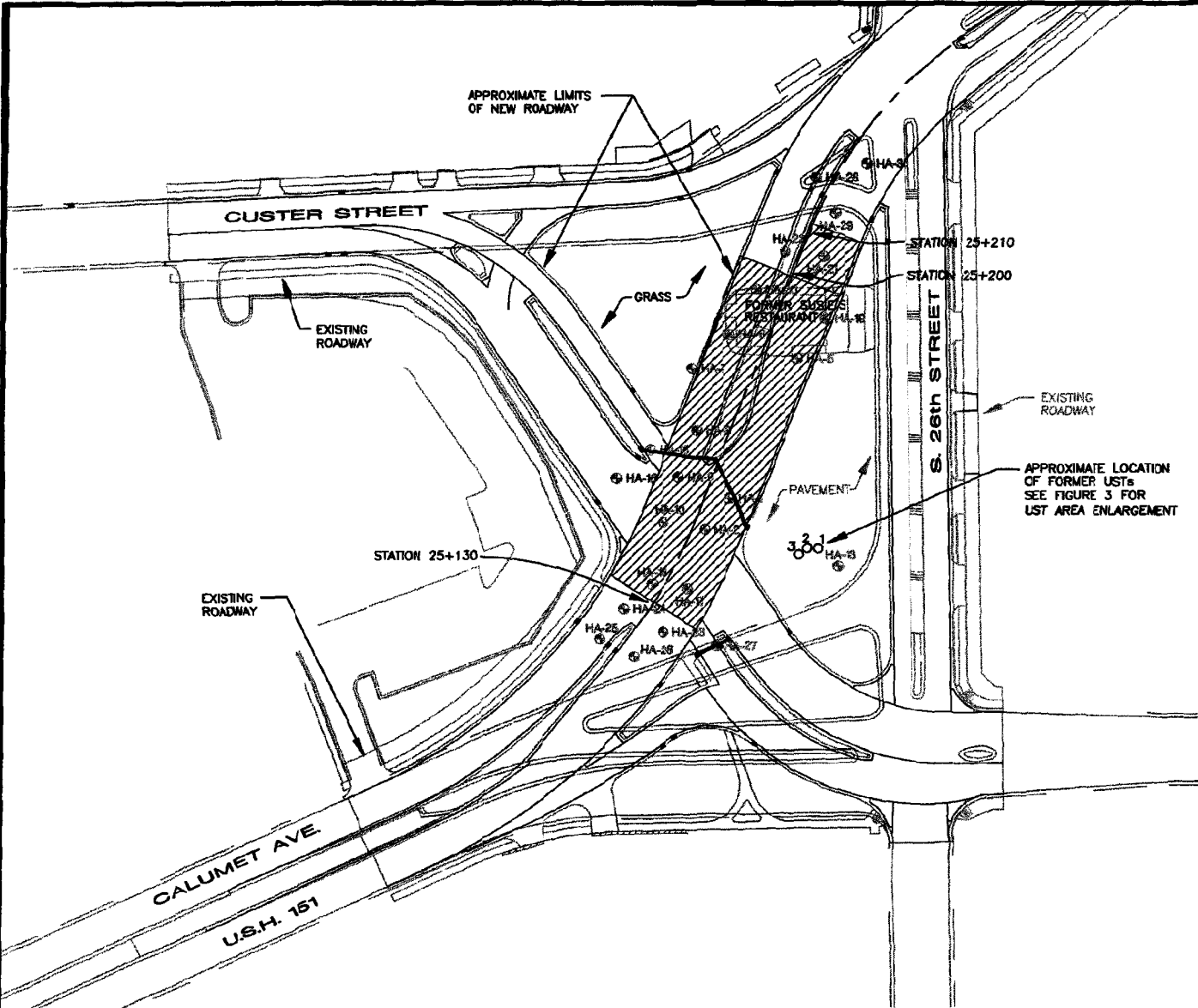
U.S.H. 151 - CALUMET AVENUE
MANITOWOC, WISCONSIN

DRAWN BY:	SIEWERTD
APPROVED BY:	DJH
PROJECT NO.	10716.04
FILE NO.	SLM-0.10716.04-001.DWG
DATE:	OCTOBER 2001

FIGURE 1

Plot Date: Wednesday, October 3, 2001
 Plot Time: 3:28:02 PM
 Plot Name: 10716.DWG
 Attached Images: No images attached

Plot Date: 10/03/01
 Operator Name: SWEETD
 Scale: 1"=20'
 Plot Name: 10716.DWG

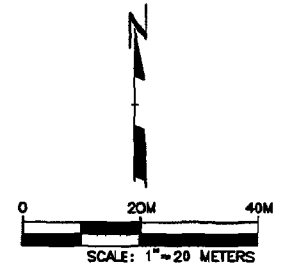


LEGEND

- ⊙ HA-1 HAND AUGER SAMPLE LOCATION (RMT, 2001)
- ▨ CONTAMINATED SOIL AREA WITHIN LIMITS OF CONSTRUCTION
- CONTAMINATED SOIL WITHIN SEWER CONSTRUCTION LIMITS

NOTES

1. TOP OF USTs WERE APPROXIMATELY 4 FEET BELOW GROUND SURFACE.
2. USTs #1 AND #2 WERE 500 GALLON CAPACITY AND UST #3 WAS 200 GALLON CAPACITY.



PROJECT:		SITE PLAN	
		PROJECT LD. 4100-09-71	
SHEET TITLE:			
U.S.H. 151 - CALUMET AVENUE MANITOWOG, WISCONSIN			
DRAWN BY: SWEETD	SCALE:	PROJ. NO 10716.04	
CHECKED BY: <i>STH</i>	1"=20 METERS	FILE NO. MEN-0.10716.04-001.DWG	
APPROVED BY: <i>STH</i>	DATE PRINTED:	FIGURE 2	
DATE: OCTOBER 2001			

RMT. INC.

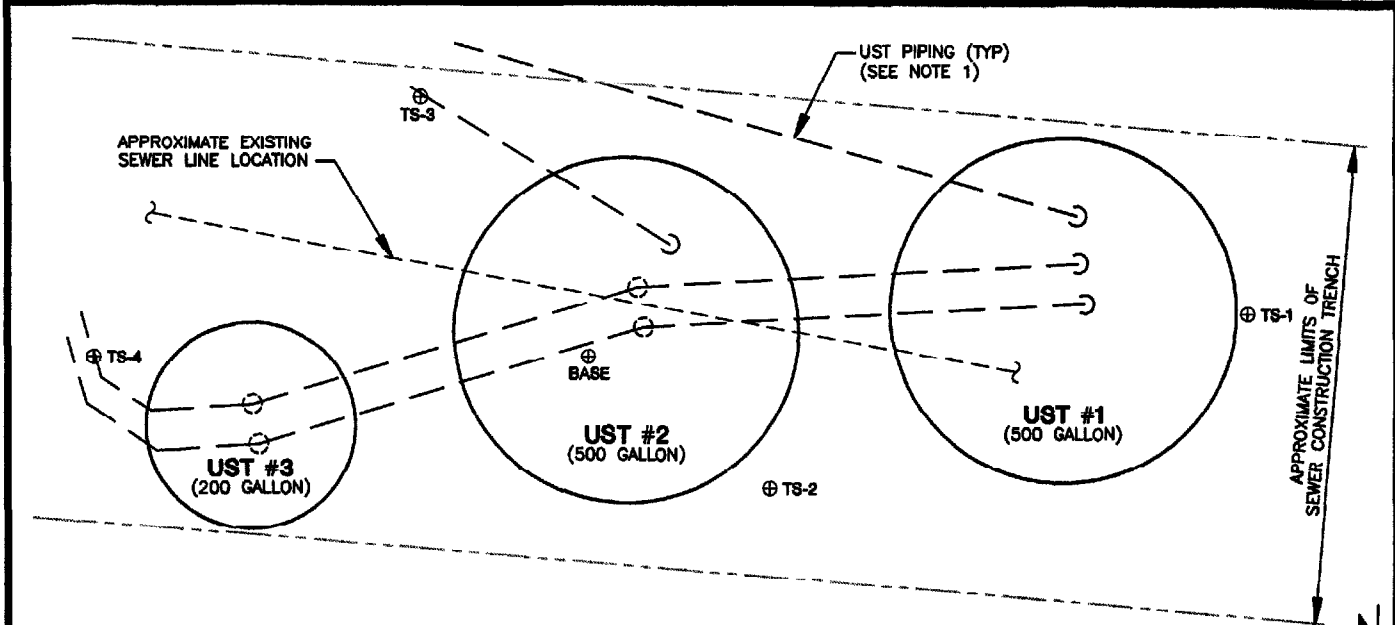
744 Highland Trail
 Madison, WI 53717-1634
 P.O. Box 8823 53708-8823
 Phone: 608-831-4444
 Fax: 608-831-3334

PLOT DATA

Drawing Name: J:\10716\04\YPM-0.10716.04-001.dwg
Operator Name: SEWERTD

Scale: 1"=20'
Dwg Size: 1115115 Bytes
Plot Date: Friday, October 5, 2001

Plot Time: 3:40.52 PM
Attached Xref's: No xref's attached.
Attached Image's: No Images attached

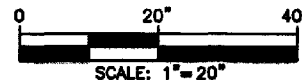


LEGEND

⊕ TS-4 SOIL SAMPLE LOCATION

NOTES

1. ALL UST PIPING IN VICINITY OF TANK EXCAVATION WAS REMOVED DURING UST REMOVAL.



**APPROXIMATE UST AND PIPING LAYOUT AND SOIL SAMPLE LOCATIONS
PROJECT ID. 4100-09-71**

**U.S.H. 151 - CALUMET AVENUE
MANITOWOC, WISCONSIN**

DRAWN BY:	SEWERTD
APPROVED BY:	DJH
PROJECT NO.	10716.04
FILE NO.	YPM-0.10716.04-001.DWG
DATE:	OCTOBER 2001

FIGURE 3

Appendix A

WDNR Notification of Release

Emergency situations should be reported via the 24-hour Spill Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to the "Spill Law", s. 292.11, Wis. Stats. Section NR706.05(1)(b), Wis. Adm. Code requires that hazardous substance discharges are to be reported by one of three methods: telephoning the Department (toll free Spill Hotline number above), telefaxing a report to the Department or visiting a Department office in person. If you choose to notify the Department by telefax, you should use this form to be sure that all necessary information is included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating ch. 292, Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, if available, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** FAX it to the appropriate WDNR region (see next page) **IMMEDIATELY** upon discovery of a potential release to the environment from (check one):

- Underground Petroleum Storage Tank System
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility (DERP eligibility based on: Facility owner/operator Property owner of licensed facility
- Other - Describe: Underground storage tank system

TO:WDNR, Attn: RR Program Assistant (Area Code) FAX Number (920) 492-5859

Discharge reported by:
Name Dan Haak Firm RMT, Inc. Date FAXed to WDNR 10/04/01

Mailing Address 744 Heartland Trail, Madison, WI 53717 (Area Code) Telephone Number (608) 831-4444

Site Information:
Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence / vacant property
USH 151, also known as former Susie's Restaurant

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60
Intersection of Calumet, Custer, and 26th in Manitowoc

Municipality (City, Village, Township) Specify municipality in which the site is located, not mailing address/city
Manitowoc

County: Manistowoc Legal Description: SE 1/4, NE 1/4, Section 25, Tn 19N, Range 23 (E) W (circle one)

Responsible Party (RP) and/or Disposer:
Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary
WDNR to determine

Contact Person Name (if different) Telephone Number

Mailing Address City State ZIP Code

Hazardous Substance Impact Information:
Identify and estimate the quantity of the hazardous substance discharged (check all that apply):

**Hazardous Substance Release Fax Notification
(Non-Emergency Only)**

Form 4400-225 (7/01) Page 2 of 2

- | | |
|--|--|
| <input type="checkbox"/> Unleaded gasoline _____ gallons | <input type="checkbox"/> Fuel oil _____ gallons |
| <input type="checkbox"/> Leaded gasoline _____ gallons | <input type="checkbox"/> Waste oil _____ gallons |
| <input type="checkbox"/> Diesel _____ gallons | <input type="checkbox"/> Stoddard solvent _____ gallons |
| <input type="checkbox"/> Perchloroethylene _____ gallons | <input checked="" type="checkbox"/> Other: (Specify below) |
- Unknown amount released, USTs suspected to be related to a former dry cleaner

Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply)

- | | |
|---|---------------------------------|
| _____ Fire/explosion threat | <u> K </u> Soil contamination |
| _____ Contaminated private wells (# of wells) _____ | _____ Surface water impacts |
| _____ Contaminated public wells | _____ Floating product |
| <u> K </u> Groundwater contamination | _____ Other (Describe below) |

Contamination was discovered as a result of:

- Tank closure assessment Site assessment
 Other – Describe below

On what date?

 9/21/01

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Three USTs removed as part of highway construction. Based on soil sample (BASE) and field-screening, impacted soil remains. Previous investigations indicate that groundwater is also impacted.

FAX numbers to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (920-492-5859); Attention - RR Program Assistant:

Brown, Calumet, Door, Fond du Lac (*except City of Waupun - see South Central Region*), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Waupaca, Waushara, Winnebago Counties

Northern Region (715-365-8932); Attention - RR Program Assistant:

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties

South Central Region (608-275-3338); Attention - RR Program Assistant:

Columbia, Crawford, Dane, Dodge, Fond du Lac (*City of Waupun only*), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk Counties

Southeast Region (414-263-8483); Attention - RR Program Assistant:

Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha Counties

West Central Region (715-839-6076); Attention - RR Program Assistant:

Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood Counties

Appendix B

Site Photographs



Photograph 1: UST #1 location related to the sewer construction trench.



Photograph 2: UST #1 after being removed.



Photograph 3: Removal of UST #2.



Photograph 4: UST #3 and associated piping.



Photograph 5: UST #3 and associated piping after removal.

Appendix C

Laboratory Analytical Data Sheets

Madison Office & Laboratory
525 Science Drive
Madison, WI 53711
608-232-3300 • Fax: 608-233-0502
1 888 5-ENCHEM



Corporate Office & Laboratory
1795 Industrial Drive
Green Bay, WI 54302
920-469-2436 • Fax: 920-469-8827
1-800-7-ENCHEM

- Analytical Report -

Project Name : USH 151 MANITOWOC

Client : RMT - MADISON

Project Number : 10716.04

Report Date : 10/2/01

WI DNR LAB ID : 113172950

Lab Sample No.	Field ID	Collection Date	Lab Sample No.	Field ID	Collection Date
913215-001	S1	9/21/01			
913215-002	S2	9/21/01			
913215-003	S3	9/21/01			
913215-004	BASE	9/21/01			
913215-005	DRUM 1	9/21/01			
913215-006	DRUM 2	9/21/01			
913215-007	MeOH BLANK	9/21/01			
913215-008	TRIP BLANK	9/21/01			

} Unrelated samples

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

Tod Holtmeyer
Approval Signature

10/2/01
Date

1/14

Madison Office & Laboratory
 525 Science Drive
 Madison, WI 53711
 608-232-3300 • Fax: 608-233-0502
 1-888-5-ENCHEM



Corporate Office & Laboratory
 1795 Industrial Drive
 Green Bay, WI 54302
 920-469-2436 • Fax: 920-469-8827
 1-800-7-ENCHEM

Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : BASE
Lab Sample Number : 913215-004
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

Volatile Organic Results

DIESEL RANGE ORGANICS

Prep Method: Wi MOD DRO

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Blank	< 5.0			5.0	mg/kg	SUB2	9/26/01	Wi MOD DRO
Diesel Range Organics	84			3.8	mg/kg	SUB2	9/26/01	Wi MOD DRO
Blank spike	85			50	%Recov	SUB2	9/26/01	Wi MOD DRO
Blank spike duplicate	93			50	%Recov	SUB2	9/26/01	Wi MOD DRO

GASOLINE RANGE ORGANICS

Prep Method: Wi MOD GRO

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
Blank	< 2.5			2.5	mg/kg	SUB2	9/27/01	Wi MOD GRO
Gasoline Range Organics	64			5.6	mg/kg	SUB2	9/27/01	Wi MOD GRO
Blank Spike	92			1.0	%Recov	SUB2	9/27/01	Wi MOD GRO
Blank Spike Duplicate	96			1.0	%Recov	SUB2	9/27/01	Wi MOD GRO

Madison Office & Laboratory
 525 Science Drive
 Madison, WI 53711
 608-232-3300 • Fax: 608-233-0502
 1-888-5-ENCHEM



Corporate Office & Laboratory
 1705 Industrial Drive
 Green Bay, WI 54302
 920-469-2436 • Fax: 920-469-8827
 1-800-7-ENCHEM

Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : BASE
Lab Sample Number : 913215-004
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : SOIL
WI DNR LAB ID : 113172950

WI LUST VOLATILE LIST SOIL IN METHANOL

Prep Method: SW846 5035

Prep Date: 10/2/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1-Trichloroethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,1,2-Trichloroethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,1-Dichloroethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,1-Dichloroethene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,2,3-Trichlorobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,2,4-Trichlorobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,2,4-Trimethylbenzene	1700	28	67		ug/kg		10/1/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 28	28	67		ug/kg	N	10/1/01	SW846 8260B
1,2-Dibromoethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,2-Dichlorobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,2-Dichloroethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,2-Dichloropropane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,3,5-Trimethylbenzene	500	28	67		ug/kg		10/1/01	SW846 8260B
1,3-Dichlorobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,3-Dichloropropane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
1,4-Dichlorobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
2,2-Dichloropropane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
2-Chlorotoluene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
4-Chlorotoluene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Benzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Bromobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Bromodichloromethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Carbon tetrachloride	< 28	28	67		ug/kg	N	10/1/01	SW846 8260B
Chlorobenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Chlorodibromomethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Chloroethane	< 28	28	67		ug/kg	N	10/1/01	SW846 8260B
Chloroform	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Chloromethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
cis-1,2-Dichloroethene	170	28	67		ug/kg		10/1/01	SW846 8260B
Dichlorodifluoromethane	< 28	28	67		ug/kg	N	10/1/01	SW846 8260B
Diisopropyl ether	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Ethylbenzene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Fluorotrichloromethane	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Hexachlorobutadiene	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Isopropylbenzene	45	28	67		ug/kg	Q	10/1/01	SW846 8260B
Methyl-tert-butyl-ether	< 28	28	67		ug/kg		10/1/01	SW846 8260B
Methylene chloride	< 28	28	67		ug/kg		10/1/01	SW846 8260B

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Project Name : USH 151 MANITOWOC

Submitter : RMT - MADISON

Project Number : 10716.04

Report Date : 10/2/01

Field ID : BASE

Collection Date : 9/21/01

Lab Sample Number : 913215-004

Matrix Type : SOIL

Lab Project Number : 913215

WI DNR LAB ID : 113172950

n-Butylbenzene	340	28	67	ug/kg		10/1/01	SW846 8260B
n-Propylbenzene	200	28	67	ug/kg		10/1/01	SW846 8260B
Naphthalene	220	28	67	ug/kg		10/1/01	SW846 8260B
p-Isopropyltoluene	250	28	67	ug/kg		10/1/01	SW846 8260B
s-Butylbenzene	250	28	67	ug/kg		10/1/01	SW846 8260B
t-Butylbenzene	< 28	28	67	ug/kg		10/1/01	SW846 8260B
Tetrachloroethene	< 28	28	67	ug/kg		10/1/01	SW846 8260B
Toluene	< 28	28	67	ug/kg		10/1/01	SW846 8260B
trans-1,2-Dichloroethene	< 28	28	67	ug/kg		10/1/01	SW846 8260B
Trichloroethene	< 28	28	67	ug/kg		10/1/01	SW846 8260B
Vinyl chloride	< 28	28	67	ug/kg		10/1/01	SW846 8260B
Xylene, o-	58	28	67	ug/kg	Q	10/1/01	SW846 8260B
Xylenes, m-, p-	140	28	67	ug/kg		10/1/01	SW846 8260B
4-Bromofluorobenzene	113			%Recov		10/1/01	SW846 8260B
Dibromofluoromethane	94			%Recov		10/1/01	SW846 8260B
Toluene-d8	98			%Recov		10/1/01	SW846 8260B

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Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : DRUM 1
Lab Sample Number : 913215-005
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 98	98	310		ug/L		10/2/01	SW846 8260B
1,1,1-Trichloroethane	< 110	110	350		ug/L		10/2/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 140	140	450		ug/L		10/2/01	SW846 8260B
1,1,2-Trichloroethane	< 94	94	300		ug/L		10/2/01	SW846 8260B
1,1-Dichloroethane	< 120	120	380		ug/L		10/2/01	SW846 8260B
1,1-Dichloroethene	< 94	94	300		ug/L		10/2/01	SW846 8260B
1,1-Dichloropropene	< 120	120	380		ug/L		10/2/01	SW846 8260B
1,2,3-Trichlorobenzene	< 110	110	350		ug/L		10/2/01	SW846 8260B
1,2,3-Trichloropropane	< 140	140	450		ug/L		10/2/01	SW846 8260B
1,2,4-Trichlorobenzene	< 72	72	230		ug/L		10/2/01	SW846 8260B
1,2,4-Trimethylbenzene	12000	94	300		ug/L		10/2/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 250	250	800		ug/L		10/2/01	SW846 8260B
1,2-Dibromoethane	< 98	98	310		ug/L		10/2/01	SW846 8260B
1,2-Dichlorobenzene	< 72	72	230		ug/L		10/2/01	SW846 8260B
1,2-Dichloroethane	< 110	110	350		ug/L		10/2/01	SW846 8260B
1,2-Dichloropropane	< 68	68	220		ug/L		10/2/01	SW846 8260B
1,3,5-Trimethylbenzene	3000	90	290		ug/L		10/2/01	SW846 8260B
1,3-Dichlorobenzene	< 130	130	410		ug/L		10/2/01	SW846 8260B
1,3-Dichloropropane	< 84	84	270		ug/L		10/2/01	SW846 8260B
1,4-Dichlorobenzene	< 86	86	270		ug/L		10/2/01	SW846 8260B
2,2-Dichloropropane	< 82	82	260		ug/L		10/2/01	SW846 8260B
2-Chlorotoluene	< 130	130	410		ug/L		10/2/01	SW846 8260B
4-Chlorotoluene	< 110	110	350		ug/L		10/2/01	SW846 8260B
Benzene	< 88	88	280		ug/L		10/2/01	SW846 8260B
Bromobenzene	< 92	92	290		ug/L		10/2/01	SW846 8260B
Bromochloromethane	< 42	42	130		ug/L		10/2/01	SW846 8260B
Bromodichloromethane	< 82	82	260		ug/L		10/2/01	SW846 8260B
Bromoform	< 120	120	380		ug/L		10/2/01	SW846 8260B
Bromomethane	< 190	190	610		ug/L		10/2/01	SW846 8260B
Carbon tetrachloride	< 180	180	570		ug/L		10/2/01	SW846 8260B
Chlorobenzene	< 86	86	270		ug/L		10/2/01	SW846 8260B
Chlorodibromomethane	< 86	86	270		ug/L		10/2/01	SW846 8260B
Chloroethane	< 130	130	410		ug/L		10/2/01	SW846 8260B
Chloroform	< 82	82	260		ug/L		10/2/01	SW846 8260B
Chloromethane	< 88	88	280		ug/L		10/2/01	SW846 8260B
cis-1,2-Dichloroethene	120	92	290		ug/L	Q	10/2/01	SW846 8260B
cis-1,3-Dichloropropene	< 110	110	350		ug/L		10/2/01	SW846 8260B

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Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : DRUM 1
Lab Sample Number : 913215-005
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : WATER
WI DNR LAB ID : 113172950

Dibromomethane	< 120	120	380	ug/L		10/2/01	SW846 8260B
Dichlorodifluoromethane	< 120	120	380	ug/L		10/2/01	SW846 8260B
Ethylbenzene	220	100	320	ug/L	Q	10/2/01	SW846 8260B
Fluorotrichloromethane	< 94	94	300	ug/L		10/2/01	SW846 8260B
Hexachlorobutadiene	< 98	98	310	ug/L		10/2/01	SW846 8260B
Isopropylbenzene	350	78	250	ug/L		10/2/01	SW846 8260B
Methylene chloride	< 76	76	240	ug/L		10/2/01	SW846 8260B
n-Butylbenzene	< 78	78	250	ug/L		10/2/01	SW846 8260B
n-Propylbenzene	870	110	350	ug/L		10/2/01	SW846 8260B
Naphthalene	1600	120	380	ug/L		10/2/01	SW846 8260B
p-Isopropyltoluene	830	100	320	ug/L		10/2/01	SW846 8260B
s-Butylbenzene	490	120	380	ug/L		10/2/01	SW846 8260B
Styrene	< 74	74	240	ug/L		10/2/01	SW846 8260B
t-Butylbenzene	< 100	100	320	ug/L		10/2/01	SW846 8260B
Tetrachloroethene	< 82	82	260	ug/L		10/2/01	SW846 8260B
Toluene	< 80	80	250	ug/L		10/2/01	SW846 8260B
trans-1,2-Dichloroethene	< 130	130	410	ug/L		10/2/01	SW846 8260B
trans-1,3-Dichloropropene	< 52	52	170	ug/L		10/2/01	SW846 8260B
Trichloroethene	< 98	98	310	ug/L		10/2/01	SW846 8260B
Vinyl chloride	< 34	34	110	ug/L		10/2/01	SW846 8260B
Xylene, o-	1100	110	350	ug/L		10/2/01	SW846 8260B
Xylenes, m-, p-	1200	150	480	ug/L		10/2/01	SW846 8260B
4-Bromofluorobenzene	104			%Recov		10/2/01	SW846 8260B
Dibromofluoromethane	97			%Recov		10/2/01	SW846 8260B
Toluene-d8	107			%Recov		10/2/01	SW846 8260B

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Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : DRUM 2
Lab Sample Number : 913215-006
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : WATER
WI DNR LAB ID : 113172950

Volatile Organic Results

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 9.8	9.8	31		ug/L		10/2/01	SW846 8260B
1,1,1-Trichloroethane	< 11	11	35		ug/L		10/2/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 14	14	45		ug/L		10/2/01	SW846 8260B
1,1,2-Trichloroethane	< 9.4	9.4	30		ug/L		10/2/01	SW846 8260B
1,1-Dichloroethane	< 12	12	38		ug/L		10/2/01	SW846 8260B
1,1-Dichloroethene	< 9.4	9.4	30		ug/L		10/2/01	SW846 8260B
1,1-Dichloropropene	< 12	12	38		ug/L		10/2/01	SW846 8260B
1,2,3-Trichlorobenzene	< 11	11	35		ug/L		10/2/01	SW846 8260B
1,2,3-Trichloropropane	< 14	14	45		ug/L		10/2/01	SW846 8260B
1,2,4-Trichlorobenzene	< 7.2	7.2	23		ug/L		10/2/01	SW846 8260B
1,2,4-Trimethylbenzene	1300	9.4	30		ug/L		10/2/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	80		ug/L		10/2/01	SW846 8260B
1,2-Dibromoethane	< 9.8	9.8	31		ug/L		10/2/01	SW846 8260B
1,2-Dichlorobenzene	< 7.2	7.2	23		ug/L		10/2/01	SW846 8260B
1,2-Dichloroethane	< 11	11	35		ug/L		10/2/01	SW846 8260B
1,2-Dichloropropane	< 6.8	6.8	22		ug/L		10/2/01	SW846 8260B
1,3,5-Trimethylbenzene	360	9.0	29		ug/L		10/2/01	SW846 8260B
1,3-Dichlorobenzene	< 13	13	41		ug/L		10/2/01	SW846 8260B
1,3-Dichloropropane	< 8.4	8.4	27		ug/L		10/2/01	SW846 8260B
1,4-Dichlorobenzene	< 8.6	8.6	27		ug/L		10/2/01	SW846 8260B
2,2-Dichloropropane	< 8.2	8.2	26		ug/L		10/2/01	SW846 8260B
2-Chlorotoluene	< 13	13	41		ug/L		10/2/01	SW846 8260B
4-Chlorotoluene	< 11	11	35		ug/L		10/2/01	SW846 8260B
Benzene	< 8.8	8.8	28		ug/L		10/2/01	SW846 8260B
Bromobenzene	< 9.2	9.2	29		ug/L		10/2/01	SW846 8260B
Bromochloromethane	< 4.2	4.2	13		ug/L		10/2/01	SW846 8260B
Bromodichloromethane	< 8.2	8.2	26		ug/L		10/2/01	SW846 8260B
Bromoform	< 12	12	38		ug/L		10/2/01	SW846 8260B
Bromomethane	< 19	19	61		ug/L		10/2/01	SW846 8260B
Carbon tetrachloride	< 18	18	57		ug/L		10/2/01	SW846 8260B
Chlorobenzene	< 8.6	8.6	27		ug/L		10/2/01	SW846 8260B
Chlorodibromomethane	< 8.6	8.6	27		ug/L		10/2/01	SW846 8260B
Chloroethane	< 13	13	41		ug/L		10/2/01	SW846 8260B
Chloroform	< 8.2	8.2	26		ug/L		10/2/01	SW846 8260B
Chloromethane	< 8.8	8.8	28		ug/L		10/2/01	SW846 8260B
cis-1,2-Dichloroethene	< 9.2	9.2	29		ug/L		10/2/01	SW846 8260B
cis-1,3-Dichloropropene	< 11	11	35		ug/L		10/2/01	SW846 8260B

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Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : DRUM 2
Lab Sample Number : 913215-006
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : WATER
WI DNR LAB ID : 113172950

Dibromomethane	< 12	12	38	ug/L		10/2/01	SW846 8260B
Dichlorodifluoromethane	< 12	12	38	ug/L		10/2/01	SW846 8260B
Ethylbenzene	26	10	32	ug/L	Q	10/2/01	SW846 8260B
Fluorotrichloromethane	< 9.4	9.4	30	ug/L		10/2/01	SW846 8260B
Hexachlorobutadiene	< 9.8	9.8	31	ug/L		10/2/01	SW846 8260B
Isopropylbenzene	51	7.8	25	ug/L		10/2/01	SW846 8260B
Methylene chloride	< 7.6	7.6	24	ug/L		10/2/01	SW846 8260B
n-Butylbenzene	240	7.8	25	ug/L		10/2/01	SW846 8260B
n-Propylbenzene	130	11	35	ug/L		10/2/01	SW846 8260B
Naphthalene	150	12	38	ug/L		10/2/01	SW846 8260B
p-Isopropyltoluene	160	10	32	ug/L		10/2/01	SW846 8260B
s-Butylbenzene	110	12	38	ug/L		10/2/01	SW846 8260B
Styrene	< 7.4	7.4	24	ug/L		10/2/01	SW846 8260B
t-Butylbenzene	13	10	32	ug/L	Q	10/2/01	SW846 8260B
Tetrachloroethene	8.3	8.2	26	ug/L	Q	10/2/01	SW846 8260B
Toluene	< 8.0	8.0	25	ug/L		10/2/01	SW846 8260B
trans-1,2-Dichloroethene	< 13	13	41	ug/L		10/2/01	SW846 8260B
trans-1,3-Dichloropropene	< 5.2	5.2	17	ug/L		10/2/01	SW846 8260B
Trichloroethene	< 9.8	9.8	31	ug/L		10/2/01	SW846 8260B
Vinyl chloride	< 3.4	3.4	11	ug/L		10/2/01	SW846 8260B
Xylene, o-	100	11	35	ug/L		10/2/01	SW846 8260B
Xylenes, m-, p-	140	15	48	ug/L		10/2/01	SW846 8260B
4-Bromofluorobenzene	108			%Recov		10/2/01	SW846 8260B
Dibromofluoromethane	99			%Recov		10/2/01	SW846 8260B
Toluene-d8	110			%Recov		10/2/01	SW846 8260B

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Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : MeOH BLANK
Lab Sample Number : 913215-007
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : METHANOL
WI DNR LAB ID : 113172950

Volatile Organic Results

EPA 8260 VOLATILE LIST

Prep Method: SW846 5035

Prep Date: 10/1/01

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,1,1-Trichloroethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,1,2-Trichloroethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,1-Dichloroethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,1-Dichloroethene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,1-Dichloropropene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2,3-Trichlorobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2,3-Trichloropropane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2,4-Trichlorobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2,4-Tmethylbenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 25	25	60		ug/L	N	10/1/01	SW846 8260B
1,2-Dibromoethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2-Dichlorobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2-Dichloroethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,2-Dichloropropane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,3,5-Trimethylbenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,3-Dichlorobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,3-Dichloropropane	< 25	25	60		ug/L		10/1/01	SW846 8260B
1,4-Dichlorobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
2,2-Dichloropropane	< 25	25	60		ug/L		10/1/01	SW846 8260B
2-Chlorotoluene	< 25	25	60		ug/L		10/1/01	SW846 8260B
4-Chlorotoluene	< 25	25	60		ug/L		10/1/01	SW846 8260B
Benzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
Bromobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
Bromochloromethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
Bromodichloromethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
Bromoform	< 25	25	60		ug/L		10/1/01	SW846 8260B
Bromomethane	< 25	25	60		ug/L	N&	10/1/01	SW846 8260B
Carbon tetrachloride	< 25	25	60		ug/L	N	10/1/01	SW846 8260B
Chlorobenzene	< 25	25	60		ug/L		10/1/01	SW846 8260B
Chlorodibromomethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
Chloroethane	< 25	25	60		ug/L	N	10/1/01	SW846 8260B
Chloroform	< 25	25	60		ug/L		10/1/01	SW846 8260B
Chloromethane	< 25	25	60		ug/L		10/1/01	SW846 8260B
cis-1,2-Dichloroethene	< 25	25	60		ug/L		10/1/01	SW846 8260B
cis-1,3-Dichloropropene	< 25	25	60		ug/L		10/1/01	SW846 8260B

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Project Name : USH 151 MANITOWOC

Submitter : RMT - MADISON

Project Number : 10716.04

Report Date : 10/2/01

Field ID : MeOH BLANK

Collection Date : 9/21/01

Lab Sample Number : 913215-007

Matrix Type : METHANOL

Lab Project Number : 913215

WI DNR LAB ID : 113172950

Dibromomethane	< 25	25	60	ug/L		10/1/01	SW846 8260B
Dichlorodifluoromethane	< 25	25	60	ug/L	N	10/1/01	SW846 8260B
Ethylbenzene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Fluorotrichloromethane	< 25	25	60	ug/L		10/1/01	SW846 8260B
Hexachlorobutadiene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Isopropylbenzene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Methylene chloride	< 25	25	60	ug/L		10/1/01	SW846 8260B
n-Butylbenzene	< 25	25	60	ug/L		10/1/01	SW846 8260B
n-Propylbenzene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Naphthalene	< 25	25	60	ug/L		10/1/01	SW846 8260B
p-Isopropyltoluene	< 25	25	60	ug/L		10/1/01	SW846 8260B
s-Butylbenzene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Styrene	< 25	25	60	ug/L		10/1/01	SW846 8260B
t-Butylbenzene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Tetrachloroethene	39	25	60	ug/L	Q	10/1/01	SW846 8260B
Toluene	< 25	25	60	ug/L		10/1/01	SW846 8260B
trans-1,2-Dichloroethene	< 25	25	60	ug/L		10/1/01	SW846 8260B
trans-1,3-Dichloropropene	< 25	25	60	ug/L		10/1/01	SW846 8260B
Trichloroethene	26	25	60	ug/L	Q	10/1/01	SW846 8260B
Vinyl chloride	< 25	25	60	ug/L		10/1/01	SW846 8260B
Xylene, o-	< 25	25	60	ug/L		10/1/01	SW846 8260B
Xylenes, m-, p-	< 25	25	60	ug/L		10/1/01	SW846 8260B
4-Bromofluorobenzene	103			%Recov		10/1/01	SW846 8260B
Dibromofluoromethane	96			%Recov		10/1/01	SW846 8260B
Toluene-d8	102			%Recov		10/1/01	SW846 8260B

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 Madison, WI 53711
 608-232-3300 • Fax: 608-233-0502
 1-888-5-ENCHEM



Corporate Office & Laboratory
 1795 Industrial Drive
 Green Bay, WI 54302
 920-469-2436 • Fax: 920-469-8827
 1-800-7-ENCHEM

Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : TRIP BLANK
Lab Sample Number : 913215-008
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Volatile Organic Results

EPA 8260 VOLATILE LIST

Prep Method: SW846 5030B

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
1,1,1,2-Tetrachloroethane	< 0.49	0.49	1.6		ug/L		10/1/01	SW846 8260B
1,1,1-Trichloroethane	< 0.53	0.53	1.7		ug/L		10/1/01	SW846 8260B
1,1,2,2-Tetrachloroethane	< 0.68	0.68	2.2		ug/L		10/1/01	SW846 8260B
1,1,2-Trichloroethane	< 0.47	0.47	1.5		ug/L		10/1/01	SW846 8260B
1,1-Dichloroethane	< 0.61	0.61	1.9		ug/L		10/1/01	SW846 8260B
1,1-Dichloroethene	< 0.47	0.47	1.5		ug/L		10/1/01	SW846 8260B
1,1-Dichloropropene	< 0.59	0.59	1.9		ug/L		10/1/01	SW846 8260B
1,2,3-Trichlorobenzene	< 0.57	0.57	1.8		ug/L		10/1/01	SW846 8260B
1,2,3-Trichloropropane	< 0.71	0.71	2.3		ug/L		10/1/01	SW846 8260B
1,2,4-Trichlorobenzene	< 0.36	0.36	1.1		ug/L		10/1/01	SW846 8260B
1,2,4-Trimethylbenzene	< 0.47	0.47	1.5		ug/L		10/1/01	SW846 8260B
1,2-Dibromo-3-chloropropane	< 1.2	1.2	3.8		ug/L		10/1/01	SW846 8260B
1,2-Dibromoethane	< 0.49	0.49	1.6		ug/L		10/1/01	SW846 8260B
1,2-Dichlorobenzene	< 0.36	0.36	1.1		ug/L		10/1/01	SW846 8260B
1,2-Dichloroethane	< 0.54	0.54	1.7		ug/L		10/1/01	SW846 8260B
1,2-Dichloropropane	< 0.34	0.34	1.1		ug/L		10/1/01	SW846 8260B
1,3,5-Trimethylbenzene	< 0.45	0.45	1.4		ug/L		10/1/01	SW846 8260B
1,3-Dichlorobenzene	< 0.64	0.64	2.0		ug/L		10/1/01	SW846 8260B
1,3-Dichloropropane	< 0.42	0.42	1.3		ug/L		10/1/01	SW846 8260B
1,4-Dichlorobenzene	< 0.43	0.43	1.4		ug/L		10/1/01	SW846 8260B
2,2-Dichloropropane	< 0.41	0.41	1.3		ug/L		10/1/01	SW846 8260B
2-Chlorotoluene	< 0.65	0.65	2.1		ug/L		10/1/01	SW846 8260B
4-Chlorotoluene	< 0.56	0.56	1.8		ug/L		10/1/01	SW846 8260B
Benzene	< 0.44	0.44	1.4		ug/L		10/1/01	SW846 8260B
Bromobenzene	< 0.46	0.46	1.5		ug/L		10/1/01	SW846 8260B
Bromochloromethane	< 0.21	0.21	0.67		ug/L		10/1/01	SW846 8260B
Bromodichloromethane	< 0.41	0.41	1.3		ug/L		10/1/01	SW846 8260B
Bromoform	< 0.58	0.58	1.8		ug/L		10/1/01	SW846 8260B
Bromomethane	< 0.94	0.94	3.0		ug/L		10/1/01	SW846 8260B
Carbon tetrachloride	< 0.90	0.90	2.9		ug/L		10/1/01	SW846 8260B
Chlorobenzene	< 0.43	0.43	1.4		ug/L		10/1/01	SW846 8260B
Chlorodibromomethane	< 0.43	0.43	1.4		ug/L		10/1/01	SW846 8260B
Chloroethane	< 0.63	0.63	2.0		ug/L		10/1/01	SW846 8260B
Chloroform	< 0.41	0.41	1.3		ug/L		10/1/01	SW846 8260B
Chloromethane	< 0.44	0.44	1.4		ug/L		10/1/01	SW846 8260B
cis-1,2-Dichloroethene	< 0.46	0.46	1.5		ug/L		10/1/01	SW846 8260B
cis-1,3-Dichloropropene	< 0.54	0.54	1.7		ug/L		10/1/01	SW846 8260B

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 1-800-7-ENCHEM

- Analytical Report -

Project Name : USH 151 MANITOWOC
Project Number : 10716.04
Field ID : TRIP BLANK
Lab Sample Number : 913215-008
Lab Project Number : 913215

Submitter : RMT - MADISON
Report Date : 10/2/01
Collection Date : 9/21/01
Matrix Type : BLANK
WI DNR LAB ID : 113172950

Dibromomethane	< 0.60	0.60	1.9	ug/L		10/1/01	SW846 8260B
Dichlorodifluoromethane	< 0.61	0.61	1.9	ug/L		10/1/01	SW846 8260B
Ethylbenzene	< 0.50	0.50	1.6	ug/L		10/1/01	SW846 8260B
Fluorotrichloromethane	< 0.47	0.47	1.5	ug/L		10/1/01	SW846 8260B
Hexachlorobutadiene	< 0.49	0.49	1.6	ug/L		10/1/01	SW846 8260B
Isopropylbenzene	< 0.39	0.39	1.2	ug/L		10/1/01	SW846 8260B
Methylene chloride	0.71	0.38	1.2	ug/L	Q	10/1/01	SW846 8260B
n-Butylbenzene	< 0.39	0.39	1.2	ug/L		10/1/01	SW846 8260B
n-Propylbenzene	< 0.54	0.54	1.7	ug/L		10/1/01	SW846 8260B
Naphthalene	< 0.59	0.59	1.9	ug/L		10/1/01	SW846 8260B
p-Isopropyltoluene	< 0.51	0.51	1.6	ug/L		10/1/01	SW846 8260B
s-Butylbenzene	< 0.58	0.58	1.8	ug/L		10/1/01	SW846 8260B
Styrene	< 0.37	0.37	1.2	ug/L		10/1/01	SW846 8260B
t-Butylbenzene	< 0.50	0.50	1.6	ug/L		10/1/01	SW846 8260B
Tetrachloroethene	< 0.41	0.41	1.3	ug/L		10/1/01	SW846 8260B
Toluene	< 0.40	0.40	1.3	ug/L		10/1/01	SW846 8260B
trans-1,2-Dichloroethene	< 0.64	0.64	2.0	ug/L		10/1/01	SW846 8260B
trans-1,3-Dichloropropene	< 0.26	0.26	0.83	ug/L		10/1/01	SW846 8260B
Trichloroethene	< 0.49	0.49	1.6	ug/L		10/1/01	SW846 8260B
Vinyl chloride	< 0.17	0.17	0.54	ug/L		10/1/01	SW846 8260B
Xylene, o-	< 0.54	0.54	1.7	ug/L		10/1/01	SW846 8260B
Xylenes, m-, p-	< 0.77	0.77	2.5	ug/L		10/1/01	SW846 8260B
4-Bromofluorobenzene	110			%Recov		10/1/01	SW846 8260B
Dibromofluoromethane	109			%Recov		10/1/01	SW846 8260B
Toluene-d8	113			%Recov		10/1/01	SW846 8260B

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Madison, WI 53711
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Organic Data Qualifier Sheet

- B Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
- C Elevated detection limit (see Sample Narrative).
- D Analyte value from diluted analysis.
- DL No surrogate recovery available due to sample dilution.
- E Analyte concentration exceeds calibration range (see Sample Narrative).
- F Surrogate failure (see Sample Narrative).
- G Sample exhibits hydrocarbon pattern resembling gasoline.
- H(n) Analysis performed "n" days past holding time.
- J Qualitative evidence of analyte present: concentration detected is greater than the method detection limit but less than the reporting limit.
- K Detection Limit may be elevated due to the presence of an unrequested analyte (see Sample Narrative).
- L Detects in trip blank.
- M Methanol leakage.
- N Spiked sample recovery not within control limits.
- ND Not Detected.
- NR Not Required.
- P The relative percent difference for detected concentrations between the two GC columns was greater than 40% difference.
- Q The analyte has been detected between the Limit of Detection (LOD) and limit of Quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
- U# Elevated LOD due to matrix interference.
- V Heavy hydrocarbon present.
- W Sample received with headspace.
- X See Sample Narrative
- Z See Sample Narrative
- SUB1 Assay was subcontracted to an approved lab.
- SUB2 Assay was subcontracted to En Chem Green Bay WI Cert. # : 405132750.
- & Laboratory Control Spike recovery not within control limits (See Sample Narrative).
- * Duplicate analyses not within control limits.

Please Print Legibly)

Company Name: RMT
 Branch or Location: Madison
 Project Contact: Dan Haak
 Telephone: 608-831-4444
 Project Number: 10716.04
 Project Name: USH151 Manitowoc WI
 Project State: WI
 Sampled By (Print): Dan Haak



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CHAIN OF CUSTODY

71912

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH
 H = Sodium Bisulfate Solution
 = Other
 FILTERED? (YES/NO)
 PRESERVATION (CODE)*

ANALYSES REQUESTED	N	N	N	N	N	N	N	N	N
NOCs LISTED	E	E	E	F	A	A	A	A	A
VOCs 8260 (rush)									
GRO									
DRO									
Dry weight									
TOTAL # OF BOTTLES SENT									

Page 1 of 1
 P.O. # _____ Quote # _____
 Mail Report To: Dan Haak
 Company: RMT
 Address: Same
 Invoice To: Dick Fish
 Company: Same
 Address: Same
 Mail Invoice To: _____

Data Package Options
 (please circle if requested)
 Results Only
 EnChem Level III (Subject to Surcharge)
 EnChem Level IV (Subject to Surcharge)

Regulatory Program
 UST
 RCRA
 SDWA
 NPDES
 CERCLA
 Matrix Codes
 W=Water
 S=Soil
 A=Air
 C=Charcoal
 B=Biota
 Sl=Sludge

LABORATORY ID (Lab Use Only)	FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED										TOTAL # OF BOTTLES SENT	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
		DATE	TIME		A	B	C	D	E	F	G	H	I	J			
9/24/01-001	S1	9/24/01	12:30	S	X												
-002	S2		12:35		X												
-003	S3		12:40		X												
-004	Base		13:00	W	X	X	X	X									
-005	Drum 1		14:30	W	X												
-006	Drum 2		14:45	W	X												
-007																	MOH blank
-008																	TRP blank

Rush Turnaround Time Requested (TAT) - Prelim Drum 2
 (Rush TAT subject to approval/surcharge)
 Date Needed: ASAP by 9/28/01 for S1, S2, S3
 Transmit Prelim Rush Results by (circle): Fax E-Mail
 Phone # 608-831-4444
 Fax # 608-831-3334
 E-Mail Address: _____

Relinquished By: <u>Dan Haak</u>	Date/Time: <u>9/24/01 10:15pm</u>	Received By: <u>Shegator</u>	Date/Time: <u>9-24-01 9:00</u>	En Chem Project No. _____
Relinquished By: <u>Jol. Johnson</u>	Date/Time: <u>9-24-01 9:15</u>	Received By: <u>V. Johnson</u>	Date/Time: <u>9/24/01 0915</u>	Sample Receipt Temp. <u>ROE 6°C</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt pH (Metals) <u>N/A</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Cooler Custody Seal <u>Present</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Present / Not Present <u>Present</u>

Samples on HOLD are subject to

Appendix D

Tank Disposal Documentation



Geiss Incorporated

SGS Tank Removal
715-539-2803
715-539-2661 Fax

T&J Electric
715-539-3809
715-536-7103 Fax

Geiss Meat Service
715-536-5283
www.sausagelover.com

Little Florida
Countryside Community
715-536-5283

CERTIFICATE OF UNDERGROUND STORAGE TANK DISPOSAL

On September 21st, 2001, SGS Tank Removal removed 3 Underground Storage Tank(s) (1-200, 1-500 gallon, 1-500 gallon chlorinated solvent tanks) from:

WDOT Former Suzie's Restaurant
Hwy 151 & 26th St
1020 S. 26th St
Manitowoc, WI 54220.

SGS, INC disposed of the tanks at:

Schulz's Recycling
W6059 Heldt Road, Merrill WI 54452, 715-536-7141
On September 26th, 2001.

Sludge generated from this UST removal handled by WDOT, owner.

Jay Schlueter

Project Manager

SGS Tank Removal, W4490 Pope Road, Merrill, WI 54452
Telephone (715) 539-2803, Fax (715) 539-2661

Appendix E

Tank Closure Checklist

Complete one form for each site closure.

CHECKLIST FOR TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:

The information you provide may be used for secondary purposes [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 BELOW

Wisconsin Department of Commerce
 ERS Division
 Bureau of Storage Tank Regulation
 P.O. Box 7837
 Madison, WI 53707-7837

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

1. Site Name WDOT FORMER SURE'S RESTAURANT 2. Owner Name JOHN LEWIS - Program Coordinator
BUREAU OF ENVIRONMENT
 Site Street Address (not P.O. Box) HWY 151 & 26th St / 1020 S 26th St Owner Street Address 4514802 Sheboygan Ave PO Box 7965
 City Monitowoc Village Town of: Madison City Village Town of: WI State WI Zip Code 53707-7965
 State WI Zip Code 54220 County MANITOWOC County MADE Telephone No. (include area code) () ()

3. Closure Company Name (print) SGS a division of Geiss Inc Closure Company Street Address W4490 Pope Rd
 Closure Company Telephone No. (include area code) (715) 539-2803 Closure Company City, State, Zip Code Merrill WI 54452

4. Name of Company Performing Closure Assessment RMIT, Inc. Assessment Company Street Address, City, State, Zip Code 744 Heartland Trail, Madison, WI 53717
 Telephone No. (include area code) (608) 831-4141 Certified Assessor Name (print) Dan Haak Assessor Signature Dan Haak Assessor Certification No. 683396

Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents*	Closure Assessment
1. <u>UNKNOWN</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<u>CHLORINATED</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2. <u>"</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<u>SOLVENTS</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3. <u>"</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" 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

* Indicate which product: Diesel; Leaded; Unleaded; Fuel Oil; Gasohol; Aviation Fuel; Kerosene; Premix; Waste/Used Motor Oil; Flammable/Combustible Hazardous Waste; Chemical (indicate the chemical name(s) _____ and CAS number(s) _____); Other _____

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

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

C. CLOSURE BY REMOVAL

	Remover Verified	Inspector Verified	NA
1. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input 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 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 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 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 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 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 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 type="checkbox"/>	<input type="checkbox"/>
10. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input 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. NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
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 checked="" type="checkbox"/>
13. Form ERS-7437 or ERS-8731 filed by owner with the Dept. of Commerce indicating closure by removal.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<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 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. ... 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.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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 COMM 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 type="checkbox"/>	<input type="checkbox"/>
2. Do points of obvious contamination exist?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. Are there strong odors in the soils?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input 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 type="checkbox"/>	<input type="checkbox"/>
5. Was a closure assessment omitted because of obvious contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Was the DNR notified of suspected or obvious contamination?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
Agency, office and person contacted: _____			
7. Contamination suspected because of: <input checked="" type="checkbox"/> Odor <input checked="" type="checkbox"/> Soil Staining <input type="checkbox"/> Free Product <input type="checkbox"/> Sheen on Groundwater <input checked="" 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.

G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

Inspector not on site

H. REMOVER/CLEANER INFORMATION

Jeff Arnis Jeff Arnis 42801 9/21/01
Remover Name (print) Remover Signature Remover Certification No. Date Signed

I. INSPECTOR INFORMATION

Greg Stroh Greg Stroh 3553
Inspector Name (print) Inspector Signature Inspector Certification No.
7601 Main Street 7601 Main Street 12/18/01
FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed

TANK INVENTORY FORM ERS-7437 or ERS-8731 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE CHECKLIST OWNER

Appendix F

Tank Inventory Forms

UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Send Completed Form To:
Department of Commerce
Bureau of Storage Tank Regulation
P.O. Box 7837
Madison WI 53707 7837

Information Required By Section 101.142, Wis. Stats.

Obj #: _____

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously stored 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))

Registration applies to a tank that is (check one):

In Use	<input checked="" type="checkbox"/> Closed - Tank Removed	<input type="checkbox"/> Ownership Change (Indicate new owner name in block 2)	Fire Department providing fire coverage where tank is located
Newly Installed	<input type="checkbox"/> Closed - Filled with inert materials		<input checked="" type="checkbox"/> City <input type="checkbox"/> Village
Abandoned with Product	<input type="checkbox"/> Temporary Out of Service - Provide Date: _____		<input type="checkbox"/> Town of MANITOWOC
Abandoned without Product (empty)	<input type="checkbox"/> Abandon with Water		

IDENTIFICATION (Please Print)

1. Tank Site Name IT - FORMER SUZIE'S RESTAURANT	Site Address 1070 S. 26th ST	Site Telephone Number (N/A)
<input checked="" type="checkbox"/> City Manitowoc	State WI Zip Code 54220	County Manitowoc
2. Tank Owner Name MR LEWIS PROGRAM COORDINATOR BUREAU OF ENVIRONMENT	Mailing Address 4812 Shuboygan Ave. PO BOX 7965	Telephone Number (608) 267-3147
<input checked="" type="checkbox"/> City Madison	State WI Zip Code 53707-7965	County DANE
3. Previous Name Suzie's Restaurant	Previous site address if different than #1 same	
Site ID #	Facility ID #	Customer ID #
4. Tank Age (age or date installed): UNKNOWN	5. Tank Capacity (gallons): 500	

LAND OWNER TYPE (check one)

County Private	<input type="checkbox"/> Federal Leased	<input type="checkbox"/> Federal Owned	<input checked="" type="checkbox"/> Municipal	<input type="checkbox"/> Other Government
	<input type="checkbox"/> State	<input type="checkbox"/> Tribal Nation		

OCCUPANCY TYPE (check one)

Gas/Retail Sales	<input type="checkbox"/> Bulk Storage	<input type="checkbox"/> Utility	<input type="checkbox"/> Mercantile/Commercial	<input type="checkbox"/> Industrial	<input type="checkbox"/> School	<input type="checkbox"/> Residential
Agricultural	<input type="checkbox"/> Backup or Emergency Generator	<input checked="" type="checkbox"/> Other (Specify): Highway				

Tank Construction:

Bare Steel	<input type="checkbox"/> Coated Steel	<input type="checkbox"/> Unknown	Cathodic Protection	Overfill Protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Fiberglass	<input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite		<input type="checkbox"/> Sacrificial Anodes	Spill Containment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Lined (Date)	<input type="checkbox"/> Other (specify): _____		<input type="checkbox"/> Impressed Current	Tank Double Walled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
			<input checked="" type="checkbox"/> N/A		

Primary Tank leak detection method:

<input type="checkbox"/> Automatic tank gauging	<input type="checkbox"/> Groundwater monitoring
<input type="checkbox"/> Inventory control and tightness testing	<input type="checkbox"/> Vapor monitoring
<input type="checkbox"/> Manual tank gauging (only for tanks of 1,000 gallons or less)	<input checked="" type="checkbox"/> Statistical Inventory Reconciliation (SIR)
	<input checked="" type="checkbox"/> Unknown

Piping Construction:

Bare Steel	<input type="checkbox"/> Coated Steel	<input type="checkbox"/> Unknown	Cathodic Protection	Pipe Double Walled?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Fiberglass	<input type="checkbox"/> Flexible	<input type="checkbox"/> N/A	<input type="checkbox"/> Sacrificial Anodes		
Other (specify)			<input type="checkbox"/> Impressed Current		
			<input checked="" type="checkbox"/> N/A		

Primary Piping System Type:

<input type="checkbox"/> Pressurized piping with auto shutoff; B. <input type="checkbox"/> alarm or C. <input type="checkbox"/> flow restrictor	<input type="checkbox"/> Unknown
<input type="checkbox"/> Suction piping with check valve at tank	<input type="checkbox"/> Suction piping with check valve at pump and inspectable
<input type="checkbox"/> Not needed if waste oil	

Piping Leak Detection Method* (used if pressurized or check valve at tank):

<input type="checkbox"/> SIR	<input type="checkbox"/> Tightness testing	<input type="checkbox"/> Electronic line leak monitor
<input type="checkbox"/> Groundwater monitoring	<input type="checkbox"/> Vapor monitoring	<input type="checkbox"/> Interstitial monitoring
<input type="checkbox"/> Not required	<input checked="" type="checkbox"/> Unknown	

Vapor Recovery/Stage II CARD #:

Fiberglass	<input checked="" type="checkbox"/> Other (specify): NONE	<input type="checkbox"/> Flexible	<input type="checkbox"/> Operational - Provide Date (mo/day/yr)
------------	--	-----------------------------------	---

TANK CONTENTS (Current, or previous product if tank now empty)

Diesel	<input type="checkbox"/> Leaded	<input type="checkbox"/> Unleaded	<input type="checkbox"/> Fuel Oil	<input type="checkbox"/> Gasohol
Other (Specify): Chlorinated Solvent	<input type="checkbox"/> Empty	<input type="checkbox"/> Sand/Gravel/Slurry*	<input type="checkbox"/> Unknown*	<input type="checkbox"/> Promix
Waste/Used Motor Oil	<input type="checkbox"/> Chemical _____	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Aviation	<input type="checkbox"/> Hazardous Waste*

(Indicate chemical name and number)

If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): **9-21-01**

chosen, this tank is NOT PECFA eligible.

Geo Latitude: _____ Geo Longitude: _____

Has a site assessment been completed (see reverse side for details): Yes No

Owner or Operator Name (please print): **WILLIAM R. HANOLDS PE.**

Owner or Operator Signature: *[Signature]*

Indicate whether: Owner or Operator

Date Signed: **11/27/01**

Obj # _____

UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Send Completed Form To
Department of Commerce
Bureau of Storage Tank Regulation
P O Box 7837
Madison, WI 53707-7837

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. 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):

<input type="checkbox"/> In Use	<input checked="" type="checkbox"/> Closed - Tank Removed	<input type="checkbox"/> Ownership Change (Indicate new owner name in block 2)	Fire Department providing fire coverage where tank is located:
<input type="checkbox"/> Newly Installed	<input type="checkbox"/> Closed - Filled with inert materials		<input checked="" type="checkbox"/> City <input type="checkbox"/> Village
<input type="checkbox"/> Abandoned with Product	<input type="checkbox"/> Temporary Out of Service - Provide Date, _____		<input type="checkbox"/> Town of MANITOWOC
<input type="checkbox"/> Abandoned without Product (empty)	<input type="checkbox"/> Abandon with Water		

A IDENTIFICATION (Please Print)

1. Tank Site Name: **ROOT - FORMER SUZIE'S RESTAURANT** Site Address: **1070 S. 26th ST** Site Telephone Number: **(N/A)**

City Village Town of: **Manitowoc** State: **WI** Zip Code: **54220** County: **Manitowoc**

2. Tank Owner Name: **John Lewis - PROGRAM COORDINATOR** Mailing Address: **4802 Sheboygan Ave. PO Box 7965** Telephone Number: **1608 267-3147**

City Village Town of: **Madison** State: **WI** Zip Code: **53707-7965** County: **DANE**

3. Previous Name: **Suzie's Restaurant** Previous site address if different than #1: **same**

B. Site ID #: _____ Facility ID #: _____ Customer ID #: _____

C. 4. Tank Age (age or date installed): **UNKNOWN** 5. Tank Capacity (gallons): **500**

D. LAND OWNER TYPE (check one)

County Federal Leased Federal Owned Municipal Other Government

Private State Tribal Nation

E. OCCUPANCY TYPE (check one)

Gas/Retail Sales Bulk Storage Utility Mercantile/Commercial Industrial School Residential

Agricultural Backup or Emergency Generator Other (Specify): **Highway**

F. Tank Construction:

Bare Steel Coated Steel Unknown Cathodic Protection

Fiberglass Steel - Fiberglass Reinforced Plastic Composite Sacrificial Anodes Overfill Protection? Yes No

Lined (Date): _____ Other (specify): _____ Impressed Current Spill Containment? Yes No

N/A Tank Double Walled? Yes No

G. Primary Tank leak detection method.

Inventory control and tightness testing Automatic tank gauging Groundwater monitoring

Manual tank gauging (only for tanks of 1,000 gallons or less) Interstitial monitoring Vapor monitoring

Statistical Inventory Reconciliation (SIR) Unknown

H. Piping Construction:

Bare Steel Coated Steel Unknown Cathodic Protection

Fiberglass Flexible N/A Sacrificial Anodes Pipe Double Walled? Yes No

Other (specify): _____ N/A Impressed Current

I. Primary Piping System Type: Pressurized piping with _____ auto shutoff, B. alarm or C. flow restrictor Unknown

Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

J. Piping Leak Detection Method: (used if pressurized or check valve at tank): SIR Tightness testing Electronic line leak monitor

Groundwater monitoring Vapor monitoring Interstitial monitoring Not required Unknown

K. Vapor Recovery/Stage II CARB #:

Fiberglass Other (specify): **NONE** Flexible Operational - Provide Date (mo/day/yr): _____

L. TANK CONTENTS (Current, or previous product if tank now empty)

Diesel Leaded Fuel Oil Gasohol

Other (Specify): **Unleaded Gas** Empty Sand/Gravel/Slurry* Unknown* Premix

Waste/Used Motor Oil Chemical _____ Kerosene Aviation Hazardous Waste*

(Indicate chemical name and number)

* If chosen, this tank is NOT PCEA eligible

Geo Latitude: _____ Geo Longitude: _____

M. If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): **9-21-01** Has a site assessment been completed (see reverse side for details): Yes No

Owner or Operator Name (please print): **WILLIAM G. HANDLOS, PE.** Indicate whether: Owner or Operator

Owner or Operator Signature: *[Signature]* Date Signed: **11/27/01**

Note: Refer to comments on reverse side of form.

Reg Obj # _____

UNDERGROUND FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK INVENTORY

Send Completed Form to
Department of Commerce
Bureau of Storage Tank Regulation
P O Box 7837
Madison WI 53707-7837

Information Required By Section 101.142, Wis. State.

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. 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):

<input type="checkbox"/> In Use	<input checked="" type="checkbox"/> Closed - Tank Removed	<input type="checkbox"/> Ownership Change (Indicate new owner name in block 2)	Fire Department providing fire coverage where tank is located: <input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of MANITOWOC
<input type="checkbox"/> Newly Installed	<input type="checkbox"/> Closed - Filled with Inert Materials		
<input type="checkbox"/> Abandoned with Product	<input type="checkbox"/> Temporary Out of Service - Provide Date: _____		
<input type="checkbox"/> Abandoned without Product (empty)	<input type="checkbox"/> Abandon with Water		

A. IDENTIFICATION (Please Print)

1. Tank Site Name: **1007 - FORMER SUE'S RESTAURANT** Site Address: **1070 S. 26th St** Site Telephone Number: **(N/A)**

City Village Town of: **Manitowoc** State: **WI** Zip Code: **54220** County: **Manitowoc**

2. Tank Owner Name: **John Lewis - PROGRAM COORDINATOR** Mailing Address: **4802 Shubogean Ave** Telephone Number: **(608) 267-3147**
BUREAU OF ENVIRONMENT PO Box 7965
 City Village Town of: **Madison** State: **WI** Zip Code: **53707-7965** County: **DANE**

3. Previous Name: **Sue's Restaurant** Previous site address if different than #1: **same**

B. Site ID #: _____ **Facility ID #:** _____ **Customer ID #:** _____

C. 4. Tank Age (age or date installed): **UNKNOWN** **5. Tank Capacity (gallons):** **200**

D. LAND OWNER TYPE (check one)

<input type="checkbox"/> County	<input type="checkbox"/> Federal Leased	<input type="checkbox"/> Federal Owned	<input checked="" type="checkbox"/> Municipal	<input type="checkbox"/> Other Government
<input type="checkbox"/> Private	<input type="checkbox"/> State	<input type="checkbox"/> Tribal Nation		

E. OCCUPANCY TYPE (check one)

<input type="checkbox"/> Gas/Retail Sales	<input type="checkbox"/> Bulk Storage	<input type="checkbox"/> Utility	<input checked="" type="checkbox"/> Mercantile/Commercial	<input type="checkbox"/> Industrial	<input type="checkbox"/> School	<input type="checkbox"/> Residential
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Backup or Emergency Generator		<input checked="" type="checkbox"/> Other (Specify): Highway			

F. Tank Construction:

<input checked="" type="checkbox"/> Bare Steel	<input type="checkbox"/> Coated Steel	<input type="checkbox"/> Unknown	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Sacrificial Anodes	<input type="checkbox"/> Overfill Protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite		<input type="checkbox"/> Impressed Current		<input type="checkbox"/> Spill Containment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Lined (Date) _____	<input type="checkbox"/> Other (specify) _____		<input checked="" type="checkbox"/> N/A		<input type="checkbox"/> Tank Double Wallod?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

G. Primary Tank leak detection method

<input type="checkbox"/> Inventory control and tightness testing	<input type="checkbox"/> Automatic tank gauging	<input type="checkbox"/> Groundwater monitoring
<input type="checkbox"/> Manual tank gauging (only for tanks of 1,000 gallons or less)	<input type="checkbox"/> Interstitial monitoring	<input type="checkbox"/> Vapor monitoring
	<input type="checkbox"/> Statistical Inventory Reconciliation (SIR)	<input checked="" type="checkbox"/> Unknown

H. Piping Construction:

<input checked="" type="checkbox"/> Bare Steel	<input type="checkbox"/> Coated Steel	<input type="checkbox"/> Unknown	<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Sacrificial Anodes	<input type="checkbox"/> Pipe Double Wallod?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Fiberglass	<input type="checkbox"/> Flexible	<input type="checkbox"/> N/A	<input type="checkbox"/> Impressed Current			
<input type="checkbox"/> Other (specify) _____			<input checked="" type="checkbox"/> N/A			

I. Primary Piping System Type: Pressurized piping with auto shutoff, B. alarm or C. flow restrictor Unknown

Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

J. Piping Leak Detection Method: (used if pressurized or check valve at tank) SIR Tightness testing Electronic line leak monitor

Groundwater monitoring Vapor monitoring Interstitial monitoring Not required Unknown

K. Vapor Recovery/Stage II CARB #:

Fiberglass Other (specify): **NONE** Flexible Operational - Provide Date (mo/day/yr): _____

L. TANK CONTENTS (Current, or previous product if tank now empty)

<input type="checkbox"/> Diesel	<input type="checkbox"/> Leaded	<input type="checkbox"/> Unleaded	<input type="checkbox"/> Fuel Oil	<input type="checkbox"/> Gasohol
<input checked="" type="checkbox"/> Other (Specify) Chlorinated Solvent	<input type="checkbox"/> Empty	<input type="checkbox"/> Sand/Gravel/Slurry*	<input type="checkbox"/> Unknown*	<input type="checkbox"/> Premix
<input type="checkbox"/> Waste/Used Motor Oil	<input type="checkbox"/> Chemical _____	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Aviation	<input type="checkbox"/> Hazardous Waste*

(Indicate chemical name and number)

If chosen, this tank is NOT PECCA eligible

If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): **9-21-01**

Geo Latitude: _____ Geo Longitude: _____

Has a site assessment been completed (see reverse side for details): Yes No

Owner or Operator Name (please print): **WILLIAM G. HANDELS, PE**

Owner or Operator Signature: *[Signature]*

Indicate whether: Owner or Operator

Date Signed: **11/27/01**

Appendix G

Drum Inventory Forms

HAZARDOUS WASTE INVENTORY
Wisconsin Department of Transportation
Division of Business Management, Safety & Health Section
DT 1231 1197



Date: 10/3/01

District 3
WisDOT Project ID 4100-09-71
Consultant Company and Contact RMT, Dan Haak
Consultant Project ID 10716.04
Site Name USH 151 (Calumet Avenue) Manitowoc
Site Address Intersection of Calumet, Custer, and 26 th in Manitowoc, Wisconsin
County Manitowoc
Generation Date 9/21/01
EPA ID Number or Status NA

Detailed Location of Containers (attach diagram, if necessary):

A total of 4 drums containing water (see attached analytical) from 3 USTs are located at the WisDOT field office, which is an inactive gas station located on the northeast corner of the intersection of S. 21st St. and Washington (USH 151). See attached.

CONTAINER ID#	CONTAINER SIZE	VOLUME gallons lbs	SOURCE tank well boring	CONTENTS soil water product mix	PROFILE
Drum 1	55 gallon	15 gallons	UST #3	water	DRUM 1
Drum 2	55 gallon	30 gallons	UST #1&2	water	DRUM 2
Drum 3	55 gallon	25 gallons	UST #1&2	water	DRUM 2
Drum 4	55 gallon	25 gallons	UST #1&2	water	DRUM 2

Fax or mail one copy of this form to: Hazardous Waste Contractor
 Safety and Health Section – Section Chief
 DOT BOE – Hazmat Specialist
 DOT District Environment Coordinator, or Hazmat
 Coordinator or Hazardous Waste Engineer

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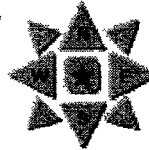
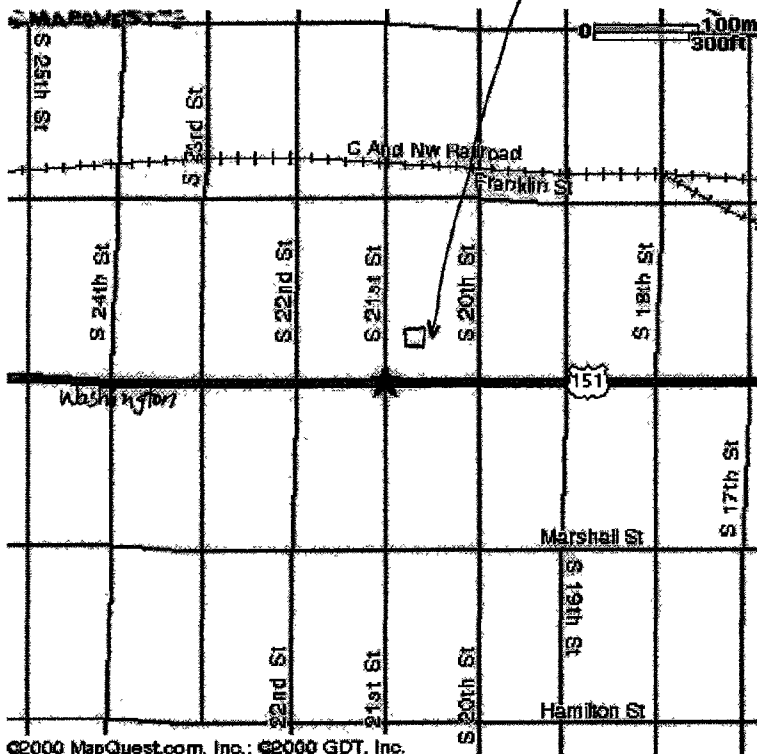
*Northeast corner of 21st St.
and Washington*

*Drum location at
inactive former
gas station*

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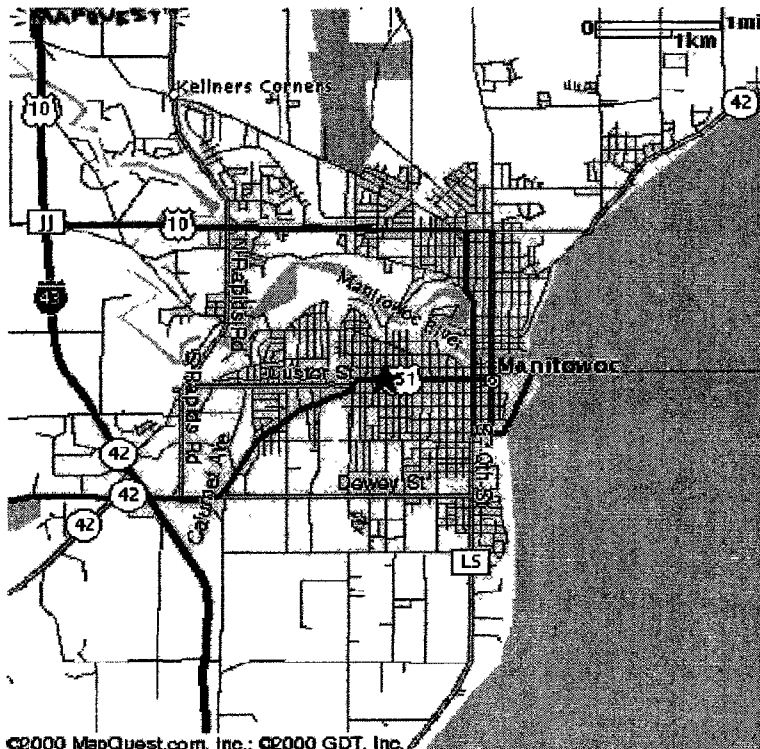
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City, State or Zip

Manitowoc, WI 54220

United States

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Business Locator - Click on business name to view the locations on map

