



Robert E. Lee & Associates, Inc.

Engineering, Surveying, Environmental Services

December 10, 2010



Mr. Don Hermansen
MARINETTE MARINE CORPORATION
1600 Ely Street
Marinette, WI 54143

Green Bay Office
4664 Golden Pond Park Ct.
Hobart, WI 54155
920-662-9641
FAX 920-662-9141
E Mail rel@releeinc.com

RE: **TANK-SYSTEM SITE ASSESSMENT**
Marinette Marine Corporation – Building #10 Expansion (NE Gasoline UST)
1600 Ely Street, Marinette, Wisconsin
BRRTS #02-38-555082

Dear Mr. Hermansen:

On behalf of Marinette Marine Corporation (MMC) and Smet Construction Services (Smet), Robert E. Lee & Associates, Inc. (REL), completed a tank-system site assessment (TSSA) for an underground storage tank (UST) at the above-referenced property (the Site). This letter report presents the summary of activities and conclusions based upon the findings of the TSSA.

SITE LOCATION

The Site is the location of Building #10 (ship erection building) of the Marinette Marine Corporation (MMC) facility. The Wisconsin Transverse Mercator coordinates for the Site are 707265, 516830. The Site location and local topography is shown in Figure 1. The Site is a part of a 28-acre shipyard that builds ships for commercial use and the United States Navy and Coast Guard. The MMC facility is located in a mixed-use industrial, commercial, and residential area in the City of Marinette within the northeast quarter of the southeast quarter of Section 6, Township 30, Range 24 East, Marinette County, Wisconsin.

BACKGROUND INFORMATION

During February 2010, a Phase II Environmental Site Assessment (ESA) was completed in the immediate vicinity of Building #10 in preparation for a building addition. Numerous soil borings were completed throughout the area of planned construction. Soil samples were laboratory analyzed for Resource Conservation and Recovery Act (RCRA) metals, polynuclear aromatic hydrocarbons (PAHs), and volatile organic compounds (VOCs). Laboratory analysis detected concentrations of metals, PAHs, and/or VOCs in each of the soil borings. In accordance with the Wisconsin Spills Law, the detection of contaminants was reported to the WDNR on March 4, 2010. Subsequently, the WDNR assigned Bureau of Remediation and Redevelopment Tracking System (BRRTS) #02-38-555082 to the Site and requested that a site investigation be completed to define the magnitude and extent of the contaminants in soil and/or groundwater. REL was retained by MMC and Smet Construction Services to perform an investigation of the contaminants and provide oversight of the handling of contaminated soils during construction activities, respectively.

During April 2010, construction for the Building #10 addition was initiated by Smet Construction Services. On October 10, 2010, a 1,000-gallon UST was discovered during the installation of a new water line located in the eastern addition of Building #10. MMC believes the UST was installed in the 1940s and likely contained leaded gasoline used for fueling purposes. During exploratory excavation, the UST was observed to be located in close proximity to a new building foundation structure (i.e., pile cap) and several high-voltage underground electric lines. A high groundwater table was also encountered during excavation. Given the USTs proximity to these structures coupled with the high groundwater table, approval for closure in-place of the UST was granted by the Wisconsin Department of Commerce (WDCOMM) inspector. The former UST location is shown on Figure 2.

UST CLOSURE ACTIVITIES AND RESULTS

On October 13, 2010, REL environmental scientist, Mr. Kevin Eibenholz (WDCOMM Certification #649863), was on-site to oversee the closure-in-place of the gasoline UST, and complete the TSSA. Barley Excavating and Trucking provided excavation services. The UST was cleaned and closed-in-place by SGS Environmental Contracting, LLC (SGS) (WDCOMM Certification #42227). The UST was abandoned with approximately 5 cubic yards of concrete slurry.

All UST closure activities were conducted in accordance with Chapter Comm 10, Wisconsin Administrative Code, and the TSSA was completed in accordance with the *Assessment and Reporting of Suspected and Obvious Releases from Underground and Aboveground Storage Tank System Guidance* published by the Wisconsin Department of Commerce (WDCOMM, 2010). Detailed information regarding the UST system, UST closure-in-place and cleaning, surplus product and sludge disposal, and photographs are included in Attachments A through E.

Prior to the closure, approximately 2,500 gallons of water was pumped from the UST and the adjacent water line trench excavation to a vac truck by Chief Liquid Waste. In addition, 239.7 tons of soil was excavated from the water line trench and was handled as potentially containing petroleum compounds. The soil was stockpiled on-site pending approval for off-site disposal at Waste Management's Menominee Landfill in Menominee, Michigan. Barley Excavating & Trucking subsequently transported the stockpile soil for landfill disposal on October 27, 2010. Soil disposal documentation is included in Attachment F.

During the UST closure, obvious staining and petroleum odors were observed in soil surrounding the UST. The UST was observed to be in poor condition with rusting, pitting, and contained multiple holes. A petroleum sheen was observed on the groundwater present in the excavation. Two soil samples (S1 and S2) were collected to evaluate soil conditions. The samples were collected from native soil adjacent the UST located above the apparent water table. Each soil sample was described in the field and properly containerized for field screening and possible laboratory analysis. Soil sample collection, handling, and field-screening procedures followed WDNR guidance. Field screening was performed using an Ion Science Photocheck 1000 photoionization detector (PID). The soil sample locations are shown in Figure 2.

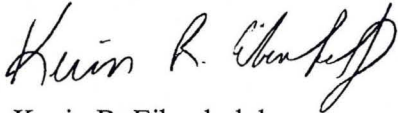
December 10, 2010
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MARINETTE MARINE CORPORATION
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Field screening of Samples S1 and S2 produced PID readings ranging of 218 to 121 parts per million, respectively. Strong petroleum odors were noted in the soil samples. Field screening results indicate that petroleum product is present in the soil. To confirm the presence of petroleum contamination, the soil sample (S1) exhibiting the highest PID reading was submitted under chain-of-custody protocol to Pace Analytical Services, Inc., (WDNR Certification #405132750) for laboratory analysis of gasoline range organics (GRO), petroleum volatile organic compounds (PVOCs), and naphthalene. Laboratory analysis detected concentration of GRO, PVOCs, and naphthalene in the soil sample. Notably, benzene was detected in Sample S1 in excess of the Chapter NR 720, Wisconsin Administrative Code (Wis. Admin. Code) residual contaminant levels (RCLs). Laboratory analytical results are summarized in Tables 1 and 2 of the TSSA checklist included as Attachment E. The laboratory analytical reports are included in Attachment G.

Based on the results of the TSSA, a release has occurred from the gasoline UST. We trust this information meets your needs. Please feel free to contact our office if you have any questions.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.



Kevin R. Eibenholz
Environmental Scientist

KRE/NJM

ENC.

CC/ENC.: Mr. Jason Moeller, WDNR
Mr. Joash Smits, Smet Construction Services Corp.



MAP USED - MARINETTE EAST - 1976
 MAP USED - MARINETTE WEST - 1976

SITE LOCATION AND LOCAL TOPOGRAPHY

MARINETTE MARINE CORP-BLDG. NO.10 EXPANSION

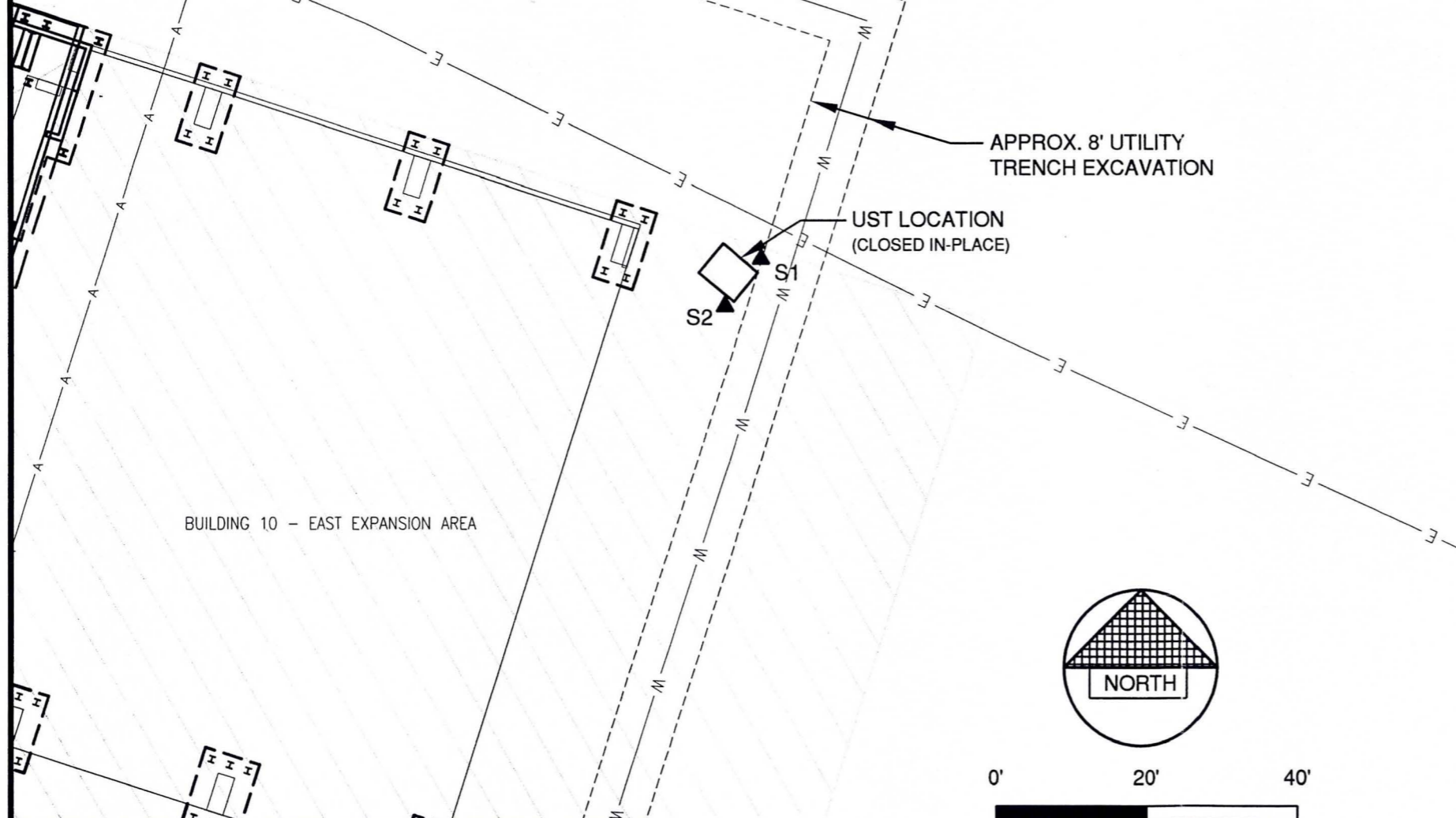
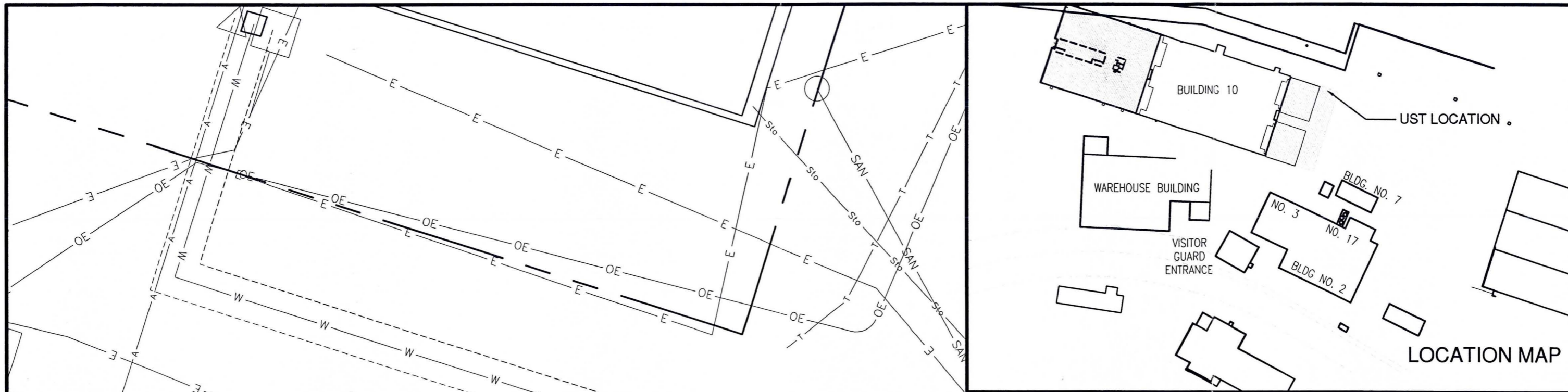
MARINETTE, WISCONSIN



1" = 2000'

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 4664 GOLDEN POND PARK COURT
 HOBART, WI 54155 PHONE:(920) 662-9641
 INTERNET: www.releeinc.com FAX:(920) 662-9141

FIGURE 1

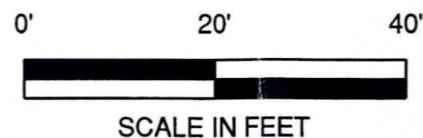
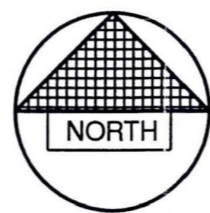


LEGEND

- ▲ S1 SOIL SAMPLE LOCATION
- ⊕ STORM SEWER CATCH BASIN
- Sto — Storm SEWER
- SAN — SANITARY SEWER
- W — WATERMAIN
- E — ELECTRIC LINE (UNDERGROUND)
- OE — ELECTRIC LINE (OVERHEAD)
- ⊠ PILE CAP

NOTE:
UNDERGROUND WATER UTILITY AND TRENCH EXCAVATION LOCATIONS ARE APPROXIMATE.

**MARINETTE MARINE CORP.
BLDG NO. 10 EXPANSION
NE GASOLINE UST CLOSURE
MARINETTE, WISCONSIN**



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SOIL SAMPLE LOCATIONS

FIGURE 2

A

ATTACHMENT A



PROJECT CONTACTS

PROJECT CONTACTS

Site Owner/Operator

Marinette Marine Corporation
1600 Ely Street
Marinette, WI 54143-2434
(715) 735-9341
Mr. Don Hermansen

Certified Site Assessor

Robert E. Lee & Associates, Inc.
4664 Golden Pond Park Court
Hobart, WI 54155
(920) 662-9641
Mr. Kevin Eibenholz, WDCOMM Certification # 649863

UST Removal and Cleaning Contractor

SGS Environmental Contracting, LLC
N2570 Daytona Drive
Merrill, WI 54452
(715) 539-2803
Mr. Jay Schlueter, WDCOMM Certification # 42227

UST Excavation Contractor

Barley Trucking & Excavating
1824 10th Avenue
Menominee, MI 49858
(906) 863-9373

Water Transporter

Chief Liquid Waste, Inc.
210 Tower Road
Winneconne, WI 54986
(920) 582-7596

Water Disposal Facility

Chief Waste Treatment Corporation
210 Tower Road
Winneconne, WI 54986

B

ATTACHMENT B

TANK SYSTEM INFORMATION

TANK SYSTEM INFORMATION

Number of Tanks: 1

Tank I.D. #: 1286752

Capacity: 1,000 gallons

Contents: Leaded Gasoline

Dimensions: 5 feet by 6 feet

Age: +/- 70 years

Tank Construction: Bare steel

Tank Condition: Poor condition; pitted and rusted with multiple holes

Piping Construction: Steel

Piping Condition: Not applicable; only a small portion of piping remained near the vicinity of the UST

C

ATTACHMENT C

**TANK CLEANING & DISPOSAL AND SURPLUS PRODUCT & SLUDGE
MANAGEMENT**

TANK CLEANING AND DISPOSAL

Location and Method of Cleaning: A hole was cut in the top of the UST, and the UST was then emptied of infiltrated groundwater, cleaned in-place, and inspected. The inside of the UST was wiped clean by SGS personnel.

Method of Tank Transport and Disposal: Not applicable. The UST was closed-in-place.

Handling of Cleaning Wastewater: No water was used to clean the tank.

SURPLUS PRODUCT/WATER AND SLUDGE MANAGEMENT

Approximately 2,500 gallons of water were removed from the UST and adjacent water line trench excavation utilizing a vac truck operated by Chief Liquid Waste, Inc., Winneconne, Wisconsin. Disposal documentation is attached. No residual sludge was generated from the cleaning of the UST.

CHIEF LIQUID WASTE, INC.

210 Tower Road • Winneconne, WI 54986
Phone: 920-582-7596 • Fax: 920-582-3989

8073

NON HAZARDOUS WASTE CERTIFICATION MANIFEST

SHIPPER Robert E. Lee & Associates, Inc DESCRIPTION Drunk underground / Groundwater / P.C. Ground / Gaseous water
ADDRESS 4664 Golden Pond Trk Ct VOLUME 2,500 Gals LIQUID SOLID
CITY Onawa, WI, 54155 STATE WI PHONE Nicole W. L. Ph.D. / 920-662-9041

RECEIVING FACILITY Chief Waste Treatment Inc PROFILE # _____
ADDRESS 210 Tower Road DATE 10/13/10
CITY, STATE, ZIP Winneconne, WI, 54986

I SHIPPER UNDER PENALTY OF LAW CERTIFIES THAT THIS WASTE IS NON HAZARDOUS PER 40 CFR PART 261. THIS WASTE DOES NOT CONTAIN PCB'S IN CONCENTRATIONS ABOVE LIMITS FOR SUBTITLED FACILITIES. I AM AWARE OF PENALTIES FOR FALSE CERTIFICATIONS.

SHIPPER X Jonas Smith ^{PM} Smith Const SIGNATURE X
DRIVER Robbie SIGNATURE [Signature]
RECEIVED BY _____ SIGNATURE _____

WHITE & YELLOW - CLW / PINK - RECEIVING FACILITY / GOLD - GENERATOR

D

ATTACHMENT D

VISUAL INSPECTION AND PHOTOGRAPHS

VISUAL INSPECTION

Weather Conditions: 60° F, sunny, no precipitation, 5 to 10 mph winds.

Site Conditions: The Site is currently used as a ship manufacturing facility.

Excavation Conditions: Since the UST was closed-in-place, limited excavation was performed in the vicinity of the UST. Staining and petroleum odors were observed in soils adjacent the UST. Groundwater was encountered in the excavated area at approximately 5 feet below grade. A petroleum sheen was observed on the groundwater that was present within excavation. Materials around the UST consisted mainly of imported sand fill.

Local Groundwater Use: The Site receives potable water from the City of Marinette municipal distribution system. The Menominee River is located approximately 120 feet north of the UST location.



Photo 1 – UST Location.



Photo 2 – Location of UST in Relation to Pile Cap.



Photo 3 – Soil Staining Adjacent to UST.



Photo 4 – Location of UST in Relation to Water Line and High Voltage Underground Electric Lines



Photo 5 – Water in Excavation for Water Line Adjacent to UST.



Photo 6 – Sheen on Water Surface.



Photo 7 – Hole in UST for Cleaning.



Photo 8 – UST Abandoned in Place with Concrete Slurry.

E

ATTACHMENT E

TANK INVENTORY FORM AND CLOSURE CHECKLISTS

TDID#: _____
 Reg Obj #: _____

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To:
 Department of Commerce
 Bureau of Petroleum Products and
 Tanks
 P.O. Box 7837
 Madison, WI 53707-7837

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 status that is (check one):
 In Use Closed - Tank Removed Ownership Change (Indicate new owner name in block 2)
 Newly Installed Closed - Filled with Inert Materials
 Abandoned with Product Abandon with Water
 Abandoned without Product (empty) Temporarily Out of Service - Provide Date: _____

Fire Department providing fire coverage where tank is located:
 City Village
 Town of: Marinette

A. IDENTIFICATION (Please Print)

1. Tank Site Name: Marinette Marine Corporation Site Street Address: 1600 Ely St. Site Telephone Number: () _____

City Village Town of: Marinette State: WISCONSIN Zip Code: 54143 County: Marinette

2. Tank Owner Name: Marinette Marine Corporation Mailing Address: 1600 Ely St. Telephone Number: () _____

City Village Town of: Marinette State: WI Zip Code: 54143 County: Marinette

3. Property Owner Name (if different than tank owner): _____ Property Owner Address if different than #1: _____

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

C. Tank Capacity (gallons): 1,000 **Tank Age (age or date installed):** 1942 **Vehicle fueling:** Yes No

D. LAND OWNER TYPE (check one) Refer to back:
 County State Federal Leased Federal Owned Tribal Nation Municipal Other Government Private

E. OCCUPANCY TYPE (check one) Refer to back:
 Retail Fuel Sales Bulk Storage Terminal Storage Mercantile/Commercial Industrial Residential School
 Agricultural (crop or livestock production) Backup or Emergency Generator Gov't Fleet Utility Other (specify): _____

F. Tank Construction:
 Bare Steel Coated Steel Stainless steel Steel - Fiberglass Reinforced Plastic Composite
 Fiberglass Unknown Other (specify): _____ Lined (date): _____

Overfill Protection? Yes No
Spill Containment? Yes No

G. Tank Cathodic Protection: Sacrificial Anodes Impressed Current N/A **Tank Double Walled?** Yes No

H. Primary Tank Leak Detection Method:
 Automatic tank gauging Interstitial monitoring Inventory control and tightness testing Groundwater monitoring Vapor monitoring
 Manual tank gauging (only for tanks of 1,000 gallons or less) Statistical Inventory Reconciliation (SIR) Unknown

I. Piping Construction:
 Bare Steel Coated Steel Stainless Steel Fiberglass Flexible Copper Unknown NA Other: _____

J. Piping Cathodic Protection: Sacrificial Anodes Impressed Current N/A **Pipe Double Walled?** Yes No

K. Primary Piping System Type: Pressurized piping with A. 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

L. 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

M. Vapor Recovery/Stage II Fiberglass Flexible Other: _____ **CARB #:** _____
 Operational - Provide Date (mo./day/yr.): _____ Non-Operational - Provide Date (mo./day/yr.): _____

N. TANK CONTENTS (Current, or previous product (if tank now empty))
 Leaded Unleaded Gasohol E85 Diesel Bio-diesel Aviation Premix Fuel Oil Kerosene New Oil
 Waste/Used Motor Oil Hazardous Waste* Unknown Empty* Sand/Gravel/Slurry* Other (specify): _____
 Chemical* Name: _____ **CAS #:** _____

* NOT PECFA eligible. **Geo Latitude:** _____ **Geo Longitude:** _____
O. If Tank Closed, Abandoned or Out of Service Give date (mo./day/yr.): 10-12-10 **Has a site assessment been completed? (see reverse side for details)** Yes No

Tank Owner Name (please print): DON HERMANSEN
Tank Owner Signature (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.) Don Hermansen **Date:** 10/13/10



Search Instructions	Search by Site, Owner, or Tank Characteristics	Search by Tank ID
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Tank Detail

Site and Owner

Site Info Facility ID: <u>651803</u> MARINETTE MARINE CORP 1600 ELY ST MARINETTE Landowner Type: Private Site Anniversary Date:	County & Municipality 38 - MARINETTE City of MARINETTE Fire Dept ID: 3806 - Marinette	Owner ID: <u>387126</u> MARINETTE MARINE CORP 1600 ELY ST MARINETTE WI 54143
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Underground Storage Tank - ID: 1286752, Wang ID: null, Closed Filled With Inert Material as of 10/13/2010

Install Date:	Capacity in Gallons: 1000	Contents: Leaded Gasoline
Tank Occupancy: Industrial	Marketer: N	CAS Number:
Federally Regulated: Y	Spill Protection:	Overfill Protection:
Corrosion Protect Type:	Date of Lining:	Lining Inspected Date:
Leak Detection:	Cath Test Date:	Cath Expire Date:
Leak Test Meth:	Leak Expire Date:	Leak Test Date:
Construction Material: Bare Steel	Wall Size:	Underground Piping:
Close Order Date:	Close Order By:	

Piping - Closed Filled With Inert Material

Flex Connectors:	UST mainfolded:	Related Tank ID:
Type:	Aboveground Piping:	Aboveground Pipe Construction:
Construction Material:	Corrosion Protect Type:	Leak Detection:
Cath Test Date:	Cath Expire Date:	Leak Test Meth:
Leak Test Date:	Leak Expire Date:	Pipe Wall Size:
Catastrophic Leak Detection:	Cat Leak Test Date:	Piping System Type:

Inspections [Click here for login page](#)

Trans ID	Type Status	Date Fiscal Yr
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**** No inspections for this tank ****



[Close this response window](#)

This document was last revised: February 2010

Wisconsin Department of Commerce

Complete One Form for Each System Service Event

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

RETURN COMPLETED CHECKLIST TO:

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

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 Petroleum Products and Tanks
P.O. Box 7837
Madison, WI 53707-7837

Part A - To be completed by contractor performing repair or closure

A. TYPE OF SERVICE CLOSURE REPAIR/UPGRADE CHANGE-IN-SERVICE
Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed
 Remote fill Tank Piping Transition/containment sump Spill bucket Dispenser

B. IDENTIFICATION (Please Print)

1. Facility Name: Marinette Marine Corporation
2. Owner Name: Marinette Marine Corporation
3. Contact Name: _____ Job Title: _____
Facility Street Address (not P.O. Box): 1600 Ely St.
Municipality: Marinette, WI
Mailing Address: 1600 Ely St.
 City Village Town of: _____
Post Office: Marinette State: WI Zip Code: 54143
Zip Code: 54143 County: Marinette
Telephone No. (include area code): _____
4. Primary Service Contractor Section A, above: SGS Environmental/Industrial
Service Contractor Street Address: N2570 Dayton Dr.
Service Contractor Telephone No. (include area code): (715) 539-2803
Service Contractor City, State, Zip Code: Merrill WI 54452

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g	h	
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection, etc)?	If "Yes" to "g", Then Specify Source & Cause of Release ³	
						<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Source of Release ³	Cause of Release ⁴
	<u>CIP</u>	<u>STEEL</u>	<u>STEEL</u>	<u>1,000</u>	<u>LG</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>T</u>	<u>C</u>
						<input type="checkbox"/> Y <input type="checkbox"/> N		
						<input type="checkbox"/> Y <input type="checkbox"/> N		
						<input type="checkbox"/> Y <input type="checkbox"/> N		
						<input type="checkbox"/> Y <input type="checkbox"/> N		

1. Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place
2. Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s))
CAS number(s): _____
3. Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other
4. Cause of release: S = spill, O = overflow, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other
5. Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time

D. CLOSURES (Check applicable box at right in response to all statements in section D)
Written notification was provided to the local agent 15 days in advance of closure date. Y N
All local permits were obtained before beginning closure. Y N NA
 UST Form ERS-7437 or AST Form ERS-8731 filed by owner with the Dept. of Commerce indicating closure. Y N NA
NOTE: TANK INVENTORY FORM ERS-7437 or ERS-8731 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D.1 TEMPORARILY OUT-OF-SERVICE

	Remover Verified	Inspector Verified	NA
1. Product removed.			
a. Product lines drained into tank (or other container) and liquid removed, and	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input 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"/> Y <input type="checkbox"/> N	<input 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"/> Y <input type="checkbox"/> N	<input type="checkbox"/>

4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
6. Inventory form filed indicating temporarily out-of-service (TOS) closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>

D.2 CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements

a. Product from piping drained into tank (or other container).	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>
b. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
c. 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"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
d. 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"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
e. 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"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
f. Vent lines left connected until tanks purged.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>
g. Tank openings temporarily plugged so vapors exit through vent.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>

2. Specific Closure-by-Removal Requirements

a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
b. Tank cleaned before being removed from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
c. Tank labeled in 2" high letters after removal but before being moved from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>

NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.

d. 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"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
e. Site security is provided while the excavation is open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>

3. Specific Closure-In-Place Requirements

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

a. Tank properly cleaned to remove all sludge and residue.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
c. Vent line disconnected or removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>
d. Inventory form filed by owner with the Department of Commerce indicating closure in-place.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE
Written notification was provided to the local agent 15 days in advance of service date. Y N NA
All local permits were obtained before beginning service. Y N NA
Form ERS-7437 or ERS-8731 filed by owner with the Department of Commerce indicating change-in-service. Y N NA

F. METHOD OF VAPOR FREEING OF TANK

Displacement of vapors by 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.

Inert gas using dry ice or liquid carbon dioxide.

Inert gas using CO₂ or N₂ **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. 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.

Readings of 10% or less of the lower flammable range (LEL) or 0% oxygen obtained before removing tank from ground.

Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.

Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

JAY A. SCHLUETER [Signature] 42227 10-13-10
Remover/Cleaner Name (print) Remover/Cleaner Signature Certification No. Date Signed
I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with Comm 10.
Company expected to perform soil contamination assessment _____

H. INSPECTOR INFORMATION

[Signature] [Signature] 35086 2/2/09
Inspector Name (print) Inspector Signature Inspector Cert # LPO Agency #
3806 719-479-2228 10-13-10
FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed

Part B – To be completed by environmental professional

Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

Site Name: Marinette Marine Corporation
 Address: 1600 Ely St. Marinette WI 548143
 Note: Site name and address must match with Part A Section 1.

To determine if a TSSA is required, see Comm 10 and section II part B of ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.
 If a TSSA is required, then follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

1. Site Information

- a. Has there been a previously documented release at this site? Y N
 If yes, provide the Commerce # _____, or DNR BRRT's # 02-38-555082.
- b. Number of active tanks¹ at facility prior to completion of current services USTs 0 ASTs 0
 (NOTE 1: Do not include previously closed systems or system components.)
- c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
<u>N/A</u>			

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

- Do any of the following conditions exist in or about the excavation(s)?
- a. Stained soils: Y N
 - b. Petroleum odor: Y N
 - c. Water in excavation/trench: Y N
 - d. Free product in the excavation/trench: Y N
 - e. Sheen or free product on water: Y N

3. Geology/Hydrogeology

- a. Depth to groundwater 5 feet
 - b. Indicate type of geology² S
- (Note 2: Use these symbols individually or in combination as appropriate: C = Clay, SLT = Silt, S = Sand, Gr = Gravel)

4. Receptors

- a. Water supply well(s) within 250 feet of the facility? Y N
 - b. Surface water(s) within 1000 feet of the facility? Y N
- If yes, specify The Menominee River is located approximately 120 feet north of UST location.

5. Sampling

- a. Follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.
- b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)
- c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

The UST was abandoned-in-place due to the location of the UST in close proximity to a new building foundation structure and several high-voltage underground electric lines

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
<u>S1</u>	<u>NE side of UST, Sand</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<u>218</u>	<u>59.4</u>	<u>N/A</u>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
S1	490	65.3 J	34.4 J	34.4 J	8300	471	103
S1	490	65.3 J	51.0 J	34.4 J	8300	471	103

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

- As a tank-system site assessor certified under Wis. Admin. Code section Comm 5.83, it is my opinion that there is no indication of a release of a regulated substance to the environment.
- Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section Comm 10.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter Comm 10 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. section 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

Kevin R. Eibenholz Tank-System Site Assessor Name (print)
(920) 662-9641 Tank-System Site Assessor Telephone Number

Kevin R. Eibenholz Tank-System Site Assessor Signature
12-9-10 Date Signed

649863 Certification Number #
Robert E. Lee & Assoc., Inc. Company Name



3148 Mid Valley Drive
De Pere, WI 54115
920-532-3828
Fax: 920-532-3831
Cell 920-676-0065
E Mail jsmits@smet.com

October 14, 2010

Inspector Randy Barnes
Wisconsin Department of Commerce
4595 County S
Conover, WI 54519

RE: Request for Approval of 1,000-Gallon Leaded Gasoline UST Closure In-Place
Marinette Marine Corporation, 1600 Ely Street, Marinette, Wisconsin

Dear Inspector Barnes:

A 1,000-gallon leaded gasoline underground storage tank (UST) was recently discovered during construction activities associated with the expansion of Marinette Marine Corporation's (MMC) Building #10. The UST was encountered during the installation of a new water line, located adjacent to Building #10's new addition. MMC believes the UST was installed during the 1940s.

During further excavation, the UST was observed to be located in close proximity to a new building foundation structure (i.e., pile cap) and several high-voltage underground electric lines. In addition, a high groundwater table was encountered in the excavation. Given the UST's proximity to the structures and the high groundwater table, we believe that the removal of the UST would impact the structural integrity of the pile cap via undermining due the high groundwater table and necessitate the disconnection of the electric line. Therefore on behalf of MMC, Smet Construction Services Corporation requests approval for the UST to be closed in-place.

Respectfully,

SMET CONSTRUCTIONS SERVICES CORP

Joash Smits

Digitally signed by Joash Smits
DN: cn=Joash Smits, o=Smet Const.,
ou=Project Manager,
email=jsmits@smet.com, c=US
Date: 2010.10.21 05:45:38 -05'00'

Joash Smits
Project Manager

F

ATTACHMENT F

SOIL DISPOSAL DOCUMENTATION

Customer Summary Report

Business Unit Name: Menominee RDF - S03098 (USA)

Date: Dec 06 2010, 8:59:39 AM - Central Standard Time

Customer Name: SMET CONSTRUCTION SERVICE / MMC BUILDING #10 NE UST AREA

Ticket Date	Ticket ID	Customer	Generator	Manifest	Profile	Truck	Material	Origin	Rate Unit	Rate Qty	Tons
Material Total										6807.25	
10/27/2010	722957	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	53	SpwBioremRGC-Tons	MARIWI	TON	20.59	20.59
10/27/2010	722958	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	35	SpwBioremRGC-Tons	MARIWI	TON	19.07	19.07
10/27/2010	722959	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	36	SpwBioremRGC-Tons	MARIWI	TON	18.39	18.39
10/27/2010	722975	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	53	SpwBioremRGC-Tons	MARIWI	TON	19.78	19.78
10/27/2010	722976	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	35	SpwBioremRGC-Tons	MARIWI	TON	21.16	21.16
10/27/2010	722977	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	36	SpwBioremRGC-Tons	MARIWI	TON	18.76	18.76
10/27/2010	722984	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	49	SpwBioremRGC-Tons	MARIWI	TON	19.7	19.7
10/27/2010	722988	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	53	SpwBioremRGC-Tons	MARIWI	TON	18.8	18.8
10/27/2010	722989	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	35	SpwBioremRGC-Tons	MARIWI	TON	17.82	17.82
10/27/2010	722992	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	36	SpwBioremRGC-Tons	MARIWI	TON	18.99	18.99
10/27/2010	722998	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	49	SpwBioremRGC-Tons	MARIWI	TON	17.97	17.97
10/27/2010	723000	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	53	SpwBioremRGC-Tons	MARIWI	TON	18.28	18.28
10/27/2010	723004	SMET CONSTRUCTION SERVICE	136-MARINETTEMARINE	*	MW104817WI	35	SpwBioremRGC-Tons	MARIWI	TON	10.39	10.39
Material Load Total										13	
									TONS	239.7	239.7

G

ATTACHMENT G

LABORATORY ANALYTICAL REPORTS

October 20, 2010

Nicole Laplant
ROBERT E. LEE & ASSOCIATES, IN
4664 Golden Pond Park Court
Oneida, WI 54155

RE: Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

Dear Nicole Laplant:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

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CERTIFICATIONS

Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Page 2 of 8

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SAMPLE SUMMARY

Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4038344001	S1	Solid	10/13/10 10:41	10/15/10 14:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4038344001	S1	WI MOD GRO	PMS	13
		ASTM D2974-87	AME	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BUILDING 10 NE TANK REMOVAL

Pace Project No.: 4038344

Sample: S1 Lab ID: 4038344001 Collected: 10/13/10 10:41 Received: 10/15/10 14:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	490	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	71-43-2	
Ethylbenzene	51.0J	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	100-41-4	
Gasoline Range Organics	59.4	mg/kg	3.4	3.4	1	10/19/10 10:22	10/19/10 15:55		
Methyl-tert-butyl ether	34.4J	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	1634-04-4	
Naphthalene	103	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	91-20-3	
Toluene	65.3J	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	108-88-3	
Total Trimethylbenzenes	8300	ug/kg	164	68.5	1	10/19/10 10:22	10/19/10 15:55		
1,2,4-Trimethylbenzene	6610	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	95-63-6	
1,3,5-Trimethylbenzene	1690	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	108-67-8	
Xylene (Total)	471	ug/kg	246	103	1	10/19/10 10:22	10/19/10 15:55	1330-20-7	
m&p-Xylene	418	ug/kg	164	68.5	1	10/19/10 10:22	10/19/10 15:55	179601-23-1	
o-Xylene	53.4J	ug/kg	82.1	34.2	1	10/19/10 10:22	10/19/10 15:55	95-47-6	
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/19/10 10:22	10/19/10 15:55	98-08-8	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	27.0	%	0.10	0.10	1		10/16/10 08:33		

QUALITY CONTROL DATA

Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

QC Batch: GCV/5729 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4038344001

METHOD BLANK: 371769 Matrix: Solid
Associated Lab Samples: 4038344001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	10/19/10 09:53	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	10/19/10 09:53	
Benzene	ug/kg	<25.0	60.0	10/19/10 09:53	
Ethylbenzene	ug/kg	<25.0	60.0	10/19/10 09:53	
Gasoline Range Organics	mg/kg	<2.5	2.5	10/19/10 09:53	
m&p-Xylene	ug/kg	<50.0	120	10/19/10 09:53	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	10/19/10 09:53	
Naphthalene	ug/kg	<25.0	60.0	10/19/10 09:53	
o-Xylene	ug/kg	<25.0	60.0	10/19/10 09:53	
Toluene	ug/kg	<25.0	60.0	10/19/10 09:53	
Total Trimethylbenzenes	ug/kg	<50.0	120	10/19/10 09:53	
Xylene (Total)	ug/kg	<75.0	180	10/19/10 09:53	
a,a,a-Trifluorotoluene (S)	%	108	80-120	10/19/10 09:53	

LABORATORY CONTROL SAMPLE & LCSD: 371770

371771

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	1080	103	108	80-120	5	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1010	1060	101	106	80-120	5	20	
Benzene	ug/kg	1000	970	1000	97	100	80-120	3	20	
Ethylbenzene	ug/kg	1000	1010	1060	101	106	80-120	4	20	
Gasoline Range Organics	mg/kg	10	10.7	10.9	107	109	80-120	1	20	
m&p-Xylene	ug/kg	2000	2040	2130	102	106	80-120	4	20	
Methyl-tert-butyl ether	ug/kg	1000	973	1020	97	102	80-120	5	20	
Naphthalene	ug/kg	1000	1040	1110	104	111	80-120	7	20	
o-Xylene	ug/kg	1000	1010	1060	101	106	80-120	4	20	
Toluene	ug/kg	1000	990	1040	99	104	80-120	5	20	
Total Trimethylbenzenes	ug/kg	2000	2040	2140	102	107	80-120	5	20	
Xylene (Total)	ug/kg	3000	3050	3190	102	106	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				107	107	80-120			

QUALITY CONTROL DATA

Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

QC Batch: PMST/4747 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4038344001

SAMPLE DUPLICATE: 370985

Parameter	Units	4038341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.8	8.9	.8	10	

QUALIFIERS

Project: BUILDING 10 NE TANK REMOVAL
Pace Project No.: 4038344

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.



Sample Condition Upon Receipt

Client Name: REL Project # 4038344

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature NOL Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
 Biota Samples should be received ≤ 0°C.

Optional
 Proj. Due Date
 Proj. Name

Person examining contents:
 Date: 10/15/10
 Initials: _____

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ Date: 10-18-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)



Robert E. Lee & Associates, Inc.
 Engineering, Surveying, Environmental Services
 4664 Golden Pond Park Court
 Hobart, WI 54155
 920.662.9641 FAX 920.662.9141

To ensure the proper handling of samples,
 please see the back for instructions.

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CHAIN OF CUSTODY RECORD

COC # 200134 4038344

Client: <u>Smet Construction</u>							Analyses Required: (Note special detection limits or methods)							Report to: <u>Nicole Ca Plant</u>			
Project Name: <u>Building 10 NE tank Removal</u>							Filtered? (Y/N)									Company: <u>Robert E. Lee & Assoc.</u>	
Project Number:				BID #:			Preservation *(Code)	<u>M M</u>							Address: <u>4664 Golden Pond Park Ct. Hobart, WI 54155</u>		
Environmental Program: <input type="checkbox"/> LUST <input type="checkbox"/> SDWA <input type="checkbox"/> WPDES <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____														Telephone: <u>(920) 662-9641</u>			
Requested Turnaround Time <input checked="" type="checkbox"/> Normal (10-15 DAYS) <input type="checkbox"/> Rush				Date Needed: _____			*Preservation Code N = Nitric Acid (red) O = Sodium Hydroxide H = Hydrochloric Acid U = Unpreserved (white) M = Methanol S = Sulfuric Acid (green)							Invoice to: <u>Same</u>			
Sampler: <u>Kevin R Eibenholz</u>				Sample Type (Matrix) DW = Drinking Water GW = Groundwater WW = Wastewater Soil, Oil, Sludge, Air, Other:			No. Of Containers	<u>4</u>	<u>GRU</u>	<u>PVDCs + Nephthylene</u>					Company: _____		
Sample Name	Date	Time	AP	PM	Remarks	No. Of Containers							Laboratory Sample I.D.	Remarks:			
<u>S1</u>	<u>10-13-10</u>	<u>1041</u>	<input checked="" type="checkbox"/>		<u>Soil</u>	<u>4</u>	<u>X</u>	<u>X</u>					<u>001</u>	<u>1-408P, 1-408C, 2-408C</u>			
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Relinquished By			Date		Time		Received By		Date		Time		Laboratory Receiving Notes				
1) <u>K. Eibenholz</u>			<u>10-15-10</u>		<u>1405 A/P</u>		<u>K. Eibenholz</u>		<u>10/15/10</u>		<u>14:05 A/P</u>		Temperature of Contents <u>NO L</u> °C				
2) <u>K. Eibenholz</u>			<u>10/15/10</u>		<u>14:30 A/P</u>		<u>K. Eibenholz</u>		<u>10/15/10</u>		<u>14:30 A/P</u>		Custody Seal Intact <u>NA</u>				
3) _____			_____		_____ A/P		_____		_____		_____ A/P		Sample Condition <u>good</u>				
Received by Lab _____												A = AM P = PM		Sample pH _____			