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#### February 14, 2018

Mr. David Neste Wisconsin Department of Natural Resources 625 E. County Road Y Oshkosh, WI 54901

Subject: Underground Storage Tank Abandonment Report STH 116 – 105 E. Main Street Winneconne, Winnebago County, Wisconsin WisDOT ID #6190-15-72

Dear Mr. Neste:

Enclosed is the Underground Storage Tank (UST) Abandonment Report for the abovereferenced property in Winneconne, Wisconsin. One UST was encountered along the south side of STH 116 at 105 E. Main Street. The WisDOT acquired highway easement for this location. The site is an open LUST site (WDNR BRRTS #03-71-562271). TRC's field observations and screening, as well as laboratory results of soil samples collected, indicate that petroleum contaminated soil remains underneath the UST that has been removed, below the water table. However, the site is currently being investigated by the responsible party. No additional investigation or remediation by the WisDOT is recommended. This report is being submitted to the WDNR in accordance with current site assessment guidance.

Feel free to contact me at (608) 826-3628, with any questions or comments.

Sincerely,

TRC Environmental Corporation

Ranu Hauts

Daniel Haak, P.E. Project Manager

cc: WDNR UST Closure Assessments (hard copy and pdf on CD) Mark Dequaine – DATCP (hard copy and pdf on CD) Kathie VanPrice – WisDOT (pdf via email) Shar TeBeest – WisDOT (pdf via email) Jason Powell – Metco (pdf via email)



#### **Underground Storage Tank Abandonment Report**

STH 116 – 105 E. Main Street Winneconne, Winnebago County, Wisconsin

WisDOT ID #6190-15-72

February 2018



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February 2018

To hi

Tom Perkins Project Engineer

Danut

Daniel Haak, P.E. Project Manager

Bryan Bergmann TRC Quality Assurance

TRC Environmental Corporation | Wisconsin Department of Transportation Final \\\\TAPB-MADISON\\MSN-VOL6\-\\WPMSN\\PJT2\282751\\R2827510000-002.DOCX © 2017 TRC All Rights Reserved

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## **Commonly Used Abbreviations and Acronyms**

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic vards
DATCP	Department of Agriculture. Trade and Consumer Protection
DRO	diesel range organics
FDM	Facilities Development Manual
FMP	Excavation Management Plan
FRP	Environmental Repair Program
FS	Enforcement Standards
ES A	Environmental Site Accessment
	Environmental Site Assessment Eagility Inday System /Eagility Identification Initiative Program Symmetry Depart
CIC Dociotary	WDND Coographic Information System (CIS) Desistant of Closed Demodiation Sites
GIS Registry	wDive Geographic information system (GIS) Registry of Closed Remediation sites
GKU	gasoline range organics
HAZWOPEK	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous waste
T T1 / A	Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WIFRP	Wisconsin Environmental Repair Program database
VVI LIVI	wisconsin Environmental Repair i rogram database

TRC Environmental Corporation | Wisconsin Department

## Section 1 Introduction

#### 1.1 Background

On January 16, 2018, one underground storage tank (UST) was encountered at 105 E. Main Street, during the construction of a retaining wall along the south side of STH 116 reconstruction. The UST was located in the STH 116 highway easement, in Winneconne, Winnebago County, Wisconsin. A site location map is presented as Figure 1. The WisDOT retained TRC Environmental Corporation (TRC) to remove the UST. On January 17, 2018, TRC was on site to observe the UST and its contents, which had evidence of petroleum odors in the tank. Photographs are shown in Appendix A. The UST was not listed in the DATCP Storage Tank Database. However, two 5,000 gallon unleaded gasoline USTs are listed as previously removed from the site and an unregistered 1,000 gallon fuel oil UST was removed from the site in October 2017. In addition, the site is an open LUST site (WDNR BRRTS #03-71-562271) (see Appendix B for background information). Previous investigations did identify petroleum contaminated soil and groundwater near the UST (Appendix B).

TRC's subcontractor and site personnel for the UST removal were as follows:

Jay Schlueter SGS Environmental Contracting, LLC N2570 Daytona Drive Merrill, WI 54452 WI LUST Remover/Cleaner Cert. #401504

Tom Perkins TRC Environmental Corporation 708 Heartland Trail, Suite 3000 Madison, Wisconsin 53717 (608) 826-3672 WI LUST Site Assessor Cert. #468293

#### 1.2 Purpose and Scope

The purpose of this report is to document the abandonment of the UST by removal, located at 105 E. Main St. in Winneconne, Wisconsin. This report has been prepared in substantial conformance with Wisconsin Administrative Code, Chapter ATCP 93, "Flammable, Combustible and Hazardous Liquids."

# Section 2 Description of Site Activities

On January 17, 2018, TRC and its tank remover/cleaner subcontractor, SGS Environmental Contracting, LLC (SGS), mobilized to the site to abandon the UST by removal in accordance with ATCP 93. The UST was approximately 1,000 gallons in size and was lying east/west parallel to STH 116 (see Figure 2). The UST contained a water/soil mixture and is believed to have previously contained gasoline. Approximately 50 gallons of water/soil mixture was containerized between two 55 gallon drums for offsite disposal by Veolia Environmental Services. The overburden soil above the UST, which had little or no evidence of contamination, was reused as backfill in the tank excavation.

The tank was constructed of single-walled steel. Several holes were observed throughout the tank, likely due to corrosion. No piping was discovered within the area of the tank excavation. The UST was transported to Schulz's Recycling Inc. in Merrill, Wisconsin for disposal. UST disposal documentation is presented in Appendix C, and the UST closure checklist and UST inventory forms are presented in Appendices D and E, respectively.

During the abandonment of the UST, soil samples were collected from the UST excavation sidewalls and the base of the excavation, and field-screened (PID readings and odors) for petroleum contamination. Base samples were collected above the water table, as field-screening results and previous investigations indicated that contamination exists at this site, below the water table. Soil was not over-excavated as it was beyond the limits of construction. Some groundwater was evident at the base of the excavation. All samples collected for field-screening analysis were laboratory analyzed for PVOCs and naphthalene. Following sample collection, the tank excavation was partially backfilled with overburden soil, in preparation for the retaining wall construction.

Laboratory analytical results of the soil are presented in Appendix F, summarized and compared to NR 720 RCLs in Table 1. PID field screening results are also presented in Table 1. The laboratory analytical results of the soil around the UST were non-detect.

# Section 3 Findings, Conclusions, and Recommendations

TRC's field observations and screening, as well as laboratory analytical results, indicate the following:

- The UST located in the highway easement at 105 E. Main St. in Winneconne, Wisconsin, was abandoned by removal in accordance with the requirements of ATCP 93. A closure assessment was performed on the UST.
- Two 55-gallon drums containing an approximate total of 50 gallons of water/soil mixture removed from the UST, were containerized for off-site disposal by Veolia (Appendix G).
- The UST excavation was backfilled with overburden soil and low-level contaminated soil.
- Petroleum contaminated soil remains below the water table, but the site is an open LUST site and is being investigated by the responsible party.
- TRC recommends the WisDOT take no further action to investigate or remediate this site.

# Table 1Summary of Soil Analytical ResultsSTH 116 - 105 E. Main St., Winneconne, Winnebago County, WisconsinWisDOT ID #6190-15-72

		N	NR 720 SOIL RCLs <sup>(3)</sup>							
		SOIL TO	DIRECT CONTACT PATHWAY		SWN	sws	SWE	sww	BE	BW
		GROUNDWATER	NON-		5'	5'	5'	5'	9'	9'
ANALYTES	Unit	PATHWAY <sup>(1)</sup>	<sup>1)</sup> INDUSTRIAL <sup>(2)</sup> INDUSTRIAL <sup>(2)</sup>							
PID (ppm)	ppm	-	-	-	<1	11	<1	<1	<1	1
VOCs	/OCs									
Benzene	(µg/kg)	5.1	1,600	7,070	<25	<25	<25	<25	<25	<25
Ethylbenzene	(µg/kg)	1,570	8,020	35,400	<25	<25	<25	<25	<25	<25
Methyl tert-butyl ether	(µg/kg)	27	63,800	282,000	<25	<25	<25	<25	<25	<25
Naphthalene	(µg/kg)	658.2	5,520	24,100	<25	<25	<25	<25	<25	<25
Toluene	(µg/kg)	1,107.2	818,000	818,000	<25	<25	<25	<25	<25	<25
1,2,4-Trimethylbenzene	(µg/kg)	4000 4 <sup>(4)</sup>	219,000	219,000	<25	<25	<25	<25	<25	<25
1,3,5-Trimethylbenzene	(µg/kg)	1382.117	182,000	182,000	<25	<25	<25	<25	<25	<25
Xylenes	(µg/kg)	3,960	260,000	260,000	<75	<75	<75	<75	<75	<75

Notes:

1. PID = Photoionization Detector

2. µg/kg = micrograms per kilogram (ppb)

3. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B

4. Samples were collected by TRC and analyzed by Pace Analytical (WDNR Cert. #405132750)

5. RCLs = Residual Contaminant Levels.

#### Footnotes:

<sup>(1)</sup> Value is the generic RCL for the groundwater pathway.

<sup>(2)</sup> Value is the generic RCL for exposure by direct contact.

<sup>(3)</sup> Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\_search using default exposure assumptions listed in NR 720.12(3).

<sup>(4)</sup> Standard is for combined 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Created by: T. Perkins 2/2/2017

Checked By: B. Wachholz 2/5/2018



E:\WI\_DOT\2014\_223432\282751-005slm.mxd -- Saved By: SMAJOR on 2/1/2018, 14:33:37 PM







#### LEGEND

#	HISTORIC TRC SOIL BORING / 2" NR 141MONITORING WELL
<b>+</b>	HISTORIC TRC SOIL BORING / TEMPORARY WELL
S	HISTORIC TRC SOIL BORING
$\mathbf{+}$	HISTORIC SOIL BORING / TEMPORARY WELL
•	HISTORIC SOIL BORING
$\otimes$	PREVIOUS INVESTIGATION TEST PITS
<b>+</b>	SOIL SAMPLE LOCATIONS
	UST EXCAVATION
///	UST
///	PREVIOUSLY REMOVED UST

#### NOTES

- BASE MAP IMAGERY FROM ESRI/MICROSOFT, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.
- 2. CONSTRUCTION DESIGN WORK SUPPLIED BY WisDOT.
- 3. HISTORIC BORING / WELL LOCATIONS AND PROPERTY BOUNDARIES DIGITIZED FROM HIMALAYAN CONSULTANTS, LLC PHASE 1 & 2 FIGURES, LOCATIONS ARE APPROXIMATE.



#### PROJECT: WISDOT ID# 6190-15-72 STH 116-105 E. MAIN WINNECONNE, WINNEBAGO COUNTY WISCONSIN

SHEET TITLE:

#### SITE MAP

DRAWN BY:	S MAJOR	SCALE:	PROJ. NO.	282751
CHECKED BY:	T. PERKINS	1: 480	FILE NO.	282751-006.mxd
APPROVED BY:	D. HAAK	DATE PRINTED:		
DATE:	FEBRUARY 2018			FIGURE 2



708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trcsolutions.com

# Appendix A Photographs



<b>Cli</b> Wisconsi Trai	<b>ent Name:</b> n Department of nsportation	<b>Site Location:</b> STH 116 – 105 E. Main Street Winneconne, Winnebago County, Wisconsin	<b>Project No.:</b> TRC #282751 WisDOT ID #6190-15-72
Photo No.	Date		
1	1/17/18	and a start of the	
<b>Description</b> UST located along excavation         for STH 116 retaining wall.         Photo taken looking southwest.		<image/>	
Photo No.	Date		
2	1/17/2018		
<b>Description</b> UST located alo for STH 116 reta Photo taken loo	ng excavation aining wall. king southwest.		



Cli	ent Name:	Site Location: Project No				
Wisconsi	n Department of	STH 116 – 105 E. Main Street	TRC #282751			
Trai	nsportation	Winneconne, Winnebago County, Wisconsin	WisDOT ID #6190-15-72			
Photo No.	Date					
3	1/17/2018					
<b>Description</b> Tank contents of water/soil mixtr odors were obs	consisted of a ure. Petroleum erved.					
Photo No.	Date					
4	1/17/2018					
<b>Description</b> Contractor exca removal. Soils below ground s show evidence contamination.	avation for UST from 0-3 feet surface did not of					



Cli	ent Name:	Site Location:	Project No.:
Wisconsi	n Department of	STH 116 – 105 E. Main Street	TRC #282751
Trai	nsportation	Winneconne, Winnebago County, Wisconsin	WisDOT ID #6190-15-72
Photo No.	Date	$\sim$	
5	1/17/2018	Received	
Description			
Contractor rem	oving tank.		
		A CONTRACT OF THE OWNER	
Photo No.	Date		
6	1/17/2018		
Description	T removed		
1,000 ganon CS	r, removed.		
		V J J Z	



Cli	ent Name:	Site Location:	Project No.:
Wisconsi	n Department of	STH 116 – 105 E. Main Street	TRC #282751
Trai	nsportation	Winneconne, Winnebago County, Wisconsin	WisDOT ID #6190-15-72
Photo No.	Date		
7	1/17/2018		
<b>Description</b> South, east and	west sidewalls		
Photo No.	Date		
8	1/17/2018		
<b>Description</b> Backfilled UST Excavation was backfilled due t retaining wall c	removal. only partially o upcoming onstruction.		

# Appendix B Background Information



# PROJECT LOCATION T 19 N

DE STORM SEWER

FILE NAME : F:\TR\JOBS\E2073A13\CIVIL 3D 2014\SHEETSPLAN\72 SHEETS\61901572-040100-RP.DWG APPRAISAL PLAT DATE :

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STH 116

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THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 6190-15-23

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACTUITIES. AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 6190-15-23 - 4, 01 SHEET 2 OF 2 AMENDMENT NO:

4



FILE NAME : F:\TR\JOBS\E2073A13\CIVIL 3D 2014\SHEETSPLAN\72 SHEETS\61901572-040101-RP,DWG APPRAISAL PLAT DATE : \_\_\_\_\_

PLOT DATE : 5/20/2015 8:44 AM

PLOT BY : DAVE A. YURK



APPRAISAL PLAT DATE :







#### WisDOT Phase 1 Hazardous Materials Assessment Site Summary

(rev. 10/7/2005)

#### WisDOT Project ID: 1030-20-00 Highway/Street: STH 116 Termini/Limits: 2<sup>nd</sup> Street – 2<sup>nd</sup> Avenue County: Winnebago

#### **Property Information:**

Site Name(s): A1 Auto Sales, Inc. / Steve's Marine Service (Site #11)

DOT parcel number (if known):

Property Address: 105 E. Main Street, Winneconne, WI

Owner's Name: Steven J Brooks

Owner's Address: PO Box 42, Winneconne, WI 54986

Owner's Phone: 920-582-7247

Current Land Use: auto sales, boat service, gift shop

Past Land Use: auto sales with gasoline pumps, auto repair, blacksmith, boat service, small engine repair

#### **Real Estate Requirements:**

- □None □Total take ⊠Strip acquisition of 60 feet
- Temporary Limited Easement (TLE)
- Permanent Limited Easement (PLE)

 $\boxtimes$  Other (describe) building relocation

#### **Construction Requirements:**

- Excavation within current right of way to feet
- $\boxtimes$  Excavation within proposed right of way to 8 feet

Excavation within easement to feet

Public or private utility or sanitary or storm sewer installation or excavation to 8 feet

#### Information from database searches and interviews:

Department of Commerce (DCOMM)

site has registered tanks ASTs USTs

tanks are currently in use

tanks are abandoned date:

Tank contents:

Leaded gasoline Unleaded gasoline Fuel Oil Diesel

Kerosene Unknown Other (describe)

site is a DCOMM administered LUST site; DCOMM ID number:

site is a closed DCOMM LUST site; closure date:

Department of Natural Resources (DNR)

site is a DNR administered LUST site; BRRTS number:

] site is a DNR administered ERP site; BRRTS number:

site is a closed LUST ERP site; closure date:

site is a landfill

site is an abandoned waste disposal site

site is a hazardous waste generator

Other (please describe) Spills

Sanborn Maps: site is a blacksmith on map dated 1898 Comments:

WisDOT historic plan sets: site has on project dated . Comments:

Business directories: site is a in the directory dated . Comments:

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: site is a on photo dated . Comments:

Contamination discovered at feet during utility or other excavation in the area. Indicate location on site map.

Interview Information or other comments: gas pumps and tanks were located on the northwest portion of the site

Visual Evidence of Potential Contamination: (include additional information in space provided)

 $\boxtimes$  No evidence of tanks

USTs ASTs Location, number and condition of tanks, contents, comments:

Location in relationship to current right of way: 75' map attached

Location in relationship to proposed right of way: 65' 🗌 map attached

Drums Stained soils Odor Sheen on surface water Areas of excavation

Areas of fill Stressed vegetation Pond(s) Basins/sumps Monitoring wells

Soil borings

Comments:

Potential for Contaminant Migration: (attach supporting documentation such as plume maps,

summaries of site investigation or closure reports).

Property is a potential source of contamination

Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.

Contaminated soil known to be within proposed right of way from feet to feet below ground surface

Contaminated groundwater known to be within proposed right of way at feet below ground surface.

Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

#### Attachments – required

 $\boxtimes$  Site photographs and a site map showing areas of concern

Plat map showing parcel and any proposed areas of acquisition or easement

Historic aerial photos of site - clearly outline site

Historic WisDOT or other as-builts and plat maps - clearly outline site

Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

#### Recommendations

No additional hazardous materials investigation is required.

If construction or real estate requirements change, evaluation of need for further investigation will be necessary.

Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.

Conduct additional investigation

Phase 2 (determine if contamination is present)

Phase 2.5 (determine extent of contamination within existing R/W only)

Phase 3 (determine full extent of contamination prior to acquisition)

Phase 4 (remediate site)

Other (describe)

Prepared by: Michelle Peed on 08/14/12

Recommendations accepted by (name and title): on Signature:

#### Site #11 A1 Auto Sales, Inc. / Steve's Marine Service / Former Blacksmith 105 E. Main Street Main Street: STA 32+25 to 33+45 RT First Avenue: STA 6'FA'+50 to 8'FA'+30 RT

The site was not identified on any of the databases searched for this report. According to the WDSPS Storage Tank Database, no tanks are registered to the site. The site is currently utilized as A1 Auto Sales, Inc., Steve's Marine Service, and Brooks Bargains (gift shop). The site has been owned by Steven Brooks since at least 2005 [Ref. 1].

According to Sanborn maps reviewed, the site was used as a residence, saloon, and warehouse in 1893, as a residence and blacksmith in 1898, and as a residence in 1904, 1913, and 1929.

Based on Himalayan's interview with Dan Moriearty (phone: 920-582-0224), who leases a portion of the site and owns A1 Auto Sales, Inc., no tanks are located on the site to the best of his knowledge. He indicated that the site was previously used as a Chevrolet dealer until 1979 and is currently used for used cars sales and car repairs. According to Mr. Moriearty, his shop utilizes a waste oil burner located on the building interior.

Himalayan also interviewed Steve Brooks (phone: 920-582-7972), who indicated that he has owned the site for approximately 10 years. Mr. Brooks indicated that, prior to his ownership; the site was occupied by an auto repair facility, a skid-loader rental facility, a boat repair facility, a small engine repair facility, and was a Chevrolet dealership from the 1950s to the 1970s. He indicated that gas pumps and tanks associated with the Chevrolet garage were removed approximately 25 years ago and they were formerly located on the northwest portion of the site.

#### Soil / Groundwater Impacts

Based on Himalayan's record search, it appears that no soil or groundwater analytical data is available for the site.

It appears that the former tanks located at this site would be within and underneath the areas of R/W acquisition and construction proposed for Main Street (see Figure 14).

#### Construction/Real Estate Requirements

Based on the proposed design plans, the maximum depths of excavation adjacent to the site are anticipated to be about 2 feet bgs for roadway construction, 8 feet bgs for water / sewer, and about 5 feet bgs for lighting / signal bases (see Table 2 in the main report).

Up to 60 feet of R/W (strip) acquisition is anticipated at this site, which includes relocation of the existing building.

#### Recommendations

Considering the location of former tanks and pumps potentially within the areas of R/W acquisition or construction proposed and lack of analytical testing conducted during the removal of the former tanks at the site it is likely that the site could pose a hazardous materials threat to the proposed improvements. Therefore, further investigation is recommended for the site.

Refer to the attached Hazardous Materials Assessment Site Summary, and site-specific figure (Figure 14) for more detailed information on the site including the former or current buildings, existing and proposed R/Ws, and proposed construction.

#### **References**

1. Winnebago County Wings website: http://wcgis.co.winnebago.wi.us/cgi-bin/wings/wingsndx.cgi





Site #11: A1 Auto Sales, Inc. / Steve's Marine Service, 105 E. Main Street View southeast from north side of Main Street

#### 1.0 SITE DESCRIPTION

A1 Auto Sales, Inc. / Steve's Marine Service (105 E. Main Street) is located near the southeast quadrant of the intersection of E. Main Street (STH 116) and 1<sup>st</sup> Avenue [hereafter referred to as the site] (see Figure 3.1, Attachment A). The site is part of the northeast <sup>1</sup>/<sub>4</sub> of the northwest <sup>1</sup>/<sub>4</sub> of Section 21, Township 19 North, Range 15 East, in the Village of Winneconne, Winnebago County, Wisconsin. According to the Winnebago County GIS Parcel Profiler Site, the site is currently owned by Steven Brooks.

Based on Himalayan's inspection of the site on July 30, 2013, the site is utilized as an auto and boat repair facility (see Photographs, Attachment E).

The predominant land surface at the site is a concrete covered parking lot on the northwest side of the property, with a gravel driveway on the southern side of the building. The eastern portion of the site contains the repair building.

The land use surrounding the site is generally commercial properties.

#### 2.0 SITE HISTORY

In August 2012, Himalayan performed a Phase 1 Hazardous Materials Assessment (HMA) of the project corridor and identified the site at 105 E. Main Street as one of the sites with hazardous material concerns [Ref. 2]. Based on the information obtained from the Phase 1 HMA, the site was previously utilized as an auto repair facility, a former re-sale facility, a boat repair facility, a small engine repair facility, and an auto dealership.

According to Himalayan's personal interviews with the former and current site owners, gas pumps and tanks associated with the former auto dealership on site from the 1950s to the 1970s, were removed from the northwest portion of the site approximately 25 years ago. Inspection of historical aerial photographs from the 1960's and 1970's also indicate the presence of a pump island in this same area. According to the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) storage tank records, no tanks are registered to the site [Ref. 3].

Based on the age of the building (at least 1950s), potential asbestos containing materials (ACM) and lead based paint (LBP) may be present in the building on site.

#### 3.0 PURPOSE AND PROPOSED ACQUISITION/CONSTRUCTION

The purpose of this Phase 2 HMI was to identify the potential presence and nature of contamination at the site. The Phase 2 HMI was performed in general accordance with FDM Procedure 21-35-10

(revised, December 2011), and the Wisconsin Department of Natural Resources (WDNR) rules and regulations [Ref. 4].

Based on the proposed design plans, the maximum depths of excavation adjacent to the site are anticipated to be about 2 feet bgs for roadway construction, 8 feet bgs for water / sewer, and approximately 5 feet bgs for lighting / signal bases. Up to 60 feet of R/W (strip) acquisition is anticipated at this site, which includes relocation of the existing building.

#### 4.0 SOILS AND GROUNDWATER CHARACTERIZATION

On July 30, 2013, Horizon Construction and Exploration (Horizon), under a contract with Himalayan, advanced three soil borings (B-11-1 to B-11-3) at the site (see Figure 3.2, Attachment A). The general boring locations were in the areas considered to have the highest potential for encountering contamination based on the information obtained during the Phase 1 HMA, and/or proposed improvements at the site. Borings were advanced to a depth of 20 feet bgs. Boring B-11-1 and B-11-2 were located in the area of a former pump island and UST area, and B-11-3 was located near the overhead door on the north portion of the former auto / boat repair building.

Each of the borings were converted to temporary groundwater monitoring wells (W-11-1, W-11-2, and W-11-3) to facilitate groundwater sampling. The wells were constructed in general compliance with WDNR guidelines for temporary monitoring wells [Ref. 4]. The wells consisted of a 10-foot section of slotted 1-inch polyvinyl chloride (PVC) pipe attached to unslotted PVC riser pipe extending to the surface. Refer to Well Construction Forms in Attachment C for additional details on temporary well construction.

After completion of sampling, all boreholes/wells were abandoned by filling them with granular bentonite, in accordance with Wis. Adm. Code NR 141. The Borehole Abandonment Forms for each borehole/well are presented in Attachment B.

#### 4.1 Soil Sampling

Based on field observations, two soil samples from each boring were collected and submitted for laboratory analysis. The soil samples were analyzed for gasoline range organics (GRO), diesel range organics (DRO), volatile organic compounds (VOCs), and the eight Resource Conservation and Recovery Act (RCRA) metals [arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury].

#### 4.2 Groundwater Sampling

Himalayan performed groundwater collection at the site on the day following the boring activities. Groundwater samples were obtained from each temporary monitoring well (MW-11-1, MW-11-2,

MW-11-3) and submitted for laboratory analysis. The water samples were analyzed for VOCs and RCRA metals.

#### 5.0 SUBSURFACE CONDITIONS

#### 5.1 Soil Conditions

Based on field observations, the shallow subsurface soils at the site consisted of fill materials from the ground surface to a depth of approximately 6 feet bgs. The fill materials consisted mainly of red sandy clay, with trace wood and brick fragments, medium to fine sand with gravel, cinders, and glass fragments.

Native brown to red clay tills with trace amounts of fine gravel were encountered below the fill materials to the terminal depths of 20 feet bgs. Refer to soil boring logs in Attachment B for more detailed descriptions of the soils encountered at each boring location.

Continuous soil samples were obtained from the borings and field-screened for the presence of volatile organic vapors using a photoionization detector (PID). The field screening results for the collected 30 soil samples were all zero and are summarized in Table 1. No staining or odors were noted in the boring logs (see Attachment B). Note that asphalt was being overlain on STH 116 at the time of Himalayan's field work; therefore, it is possible that background calibration may have been elevated on the PID.

	TABLE 1								
	FIELD SCREENING RESULTS Phase 2 Hazardous Materials Investigation								
A1	Auto Sales	, Inc. / Steve's Ma	rine Service (105 l	E. Main Street)					
		Winneconne, W	innebago County						
		Project ID	: 6190-17-00						
Bo	oring ID	B-11-1	B-11-2	B-11-3					
	Date	7/30/13	7/30/13	7/30/13					
	0-2	0.0	0.0	0.0					
	2-4	0.0	0.0	0.0					
	4-6	0.0	0.0	0.0					
t)	6-8	0.0	0.0	0.0					
(fee	8-10	0.0	0.0	0.0					
epth	10-12	0.0	0.0	0.0					
De	12-14	0.0	0.0	0.0					
	14-16	0.0	0.0	0.0					
	16-18	0.0	0.0	0.0					
	18-20 0.0 0.0 0.0								
Note Resu	s: lts provided	in instrument units	(IU).						

Phase 2 HMI - STH 116 (2nd Street - 2nd Avenue), Winneconne, Winnebago County, WI

#### 5.2 Groundwater Conditions

Groundwater was encountered in each temporary well, at depths ranging from 7.2 to 14.2 feet bgs. It should be noted that groundwater depths can vary throughout the year, depending on several factors that include seasonal variations in precipitation, infiltration, and surface water runoff.

Refer to the soil boring logs in Attachment B for additional groundwater information encountered at each boring location.

#### 6.0 ANALYTICAL RESULTS

#### 6.1 Soil Samples

Laboratory analyses was performed on two soil samples selected from each borehole, at various depths ranging from 2 to 12 feet bgs.

No GRO was detected in any of the samples collected. DRO was detected in B-11-1 2-4' (2.9 mg/kg) below the NR 720 RCL [Ref. 6].

Two VOCs were detected in two of the soil samples. Tetrachloroethene (74.7 to 169  $\mu$ g/kg) and trichloroethene (162 to 195  $\mu$ g/kg) were both detected in B-11-1 8-10' and B-11-2 10-12'. No NR 720 RCL has been established for either of these VOCs.

Six of the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, and mercury) were detected in the soil samples. Arsenic (1.2 to 4.9 mg/kg) was detected above the NR 720 RCL in each of the six samples. Chromium (6.6 to 22.1 mg/kg) was detected in each of the soil samples. Concentrations in five samples (B-11-1 8-10' at 22.1 mg/kg, B-11-2 10-12' at 18.5 mg/kg, and B-11-3 8-10' at 19.7 mg/kg) were detected above the NR 720 RCL, hexavalent chromium only.

Lead (1.9 to 5.4 mg/kg) was detected in each of the soil samples, below the NR 720 RCL.

Barium (16.8 to 85.8 mg/kg), cadmium (0.13 J to 0.28 J mg/kg), and mercury (0.010 to 0.11 mg/kg) were also detected in several of the samples, below their respective NR 720 RCLs or no standard has been established. A "J" denotes a concentration flagged by the laboratory as an estimated concentration. Additionally, selenium and silver were not detected in any of the samples analyzed.

	TABLE 2								
	SOIL	QUALITY RE	SULTS - DET	ECTED COM	IPOUNDS				
Phase 2 Hazardous Materials Investigation									
A1 Auto Sales, Inc. / Steve's Marine Service (105-113 E. Main Street), Winneconne, Winnebago County									
		Pro	oject ID: 6190	-17-00					
Sample I.D. B-11-1 B-11-2 B-11-3									
Depth (feet)	2-4	8-10	2-4	10-12	2-4	8-10	Generic NK		
Collection Date	7/30	)/2013	7/30	/2013	7/30	/2013	720 KCL		
GRO (mg/kg)	<2.7	<3.1	<2.7	<3.1	<2.8	<3.2	100/250*		
DRO (mg/kg)	2.9	<0.77	<0.72	< 0.82	< 0.74	<0.77	100/250*		
VOCs (µg/kg)									
Tetrachloroethene	<27.5	169	<26.9	74.7	<25.8	<25.0	NSE		
Trichloroethene	<27.5	195	<26.9	162	<25.8	<25.0	NSE		
RCRA Metals (mg/kg)									
Arsenic	4.4	4.9	4.2	4.3	1.2 J	3.9	0.039 (b)		
Barium	25.9	85.8	51.2	68.8	16.8	73.3	NSE		
Cadmium	0.13 J	0.28 J	0.20 J	0.26 J	< 0.047	<0.23 J	8 (b)		
Chromium	13.0	22.1	12.6	18.5	6.6	19.7	14 (a) (b)		
Lead	4.1	5.4	4.3	7.7	1.9	4.9	50 (b)		
Mercury	0.017	0.010	0.11	0.016	< 0.0032	< 0.0076	NSE		
Notes: Analytes detected above the meth GRO= Gasoline Range Organics:	od detection limit	(MDL) in at least or	ne sample are incl Volatile Organic	uded in the Table	P= Toxicity charac	teristic leaching pro	ocedure		

GRO= Gasoline Range Organics; DRO= Diesel Range Organics; VOC= Volatile Organic Compounds; TCLP= Toxicity characteristic leaching procedure RCRA = Resource Conservation and Recovery Act; **Bold** results indicate concentrations exceeding NR 720 or Interim RCLs

mg/kg=milligrams per kilogram and mg/L milligrams per liter=parts per million (ppm); µg/kg=micrograms per kilogram=parts per billion (ppb)

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit; NSE = No Standard Established; RCL= Residual \* = RCLs (mg/kg) based on permeability of soils per NR 720 for groundwater protection

Table 2 presents the summary of soil quality results. Also, refer to Figure 3.2, Attachment A for sample locations and analytical results.

Refer to Attachment D for complete laboratory report for each sample.

#### 6.2 Groundwater Samples

Based on the laboratory analytical results of groundwater samples collected from temporary wells MW-11-1, MW-11-2, and MW-11-3, no petroleum constituents were detected in any of the water samples. However, chlorinated solvents were detected in each of the samples. Trichloroethene (18.9 to 383  $\mu$ g/L) was detected above the NR 140 ES in each of the three samples. Tetrachloroethene was detected above the NR 140 ES in MW-11-1 (7.4  $\mu$ g/L) and MW-11-2 (21.8  $\mu$ g/L) and above the NR 140 PAL in MW-11-3 (0.50 J  $\mu$ g/L). Vinyl chloride was detected above the NR 140 ES in MW-11-1 (4.6  $\mu$ g/L) and MW-11-2 (1.5 J  $\mu$ g/L).

Cis-1,2-dichloroethene was detected in MW-11-1 (11.0  $\mu$ g/L) and MW-11-2 (19.4  $\mu$ g/L) above the NR 140 PAL.

Trans-1,2-dichloroethene (0.66  $\mu$ g/L) and 2-butanone (MEK) (4.4 J  $\mu$ g/) were also detected in MW-11-1, but are below their respective NR 140 PALs.

Four of the eight RCRA metals were detected in the samples. Arsenic (8.3 J  $\mu$ g/L) was identified in MW-11-2, chromium (3.7 J  $\mu$ g/L) was identified in MW-11-3, and lead (3.2 J  $\mu$ g/L) was identified in MW-11-1, and are all above their respective NR 140 PAL. Barium (89.6 to 161  $\mu$ g/L) was detected below the NR 140 PAL in all samples.

Also refer to Figure 3.3 in Attachment B for the well locations and Attachment D for the laboratory results.

		TABLE 3						
GROU	GROUNDWATER RESULTS - DETECTED COMPOUNDS							
Phase 2 Hazardous Materials Investigation								
A1 Auto Sales, Inc. / Stev	A1 Auto Sales, Inc. / Steve's Marine Service (105 E. Main Street), Winneconne, Winnebago County							
	Proje	ect ID: 6190-	17-00					
Sample I.D.MW-11-1MW-11-2MW-11-3NR 140 ESNR 140 PAL								
Collection Date	7/31/13	7/31/13	7/31/13	(µg/L)	(µg/L)			
VOCs (µg/L)								
2-Butanone (MEK)	4.4 J	<13.5	<2.7	460	90			
cis-1,2-Dichloroethene	11.0	19.4	< 0.42	70	7			
trans-1,2-Dichloroethene	0.66 J	<1.9	< 0.37	100	20			
Tetrachloroethene	7.4	21.8	0.50 J	5	0.5			
Trichloroethene	289	383	18.9	5	0.5			
Vinyl chloride	4.6	1.5 J	< 0.18	0.2	0.02			
RCRA Metals (µg/L)	,r				<u> </u>			
Arsenic	<4.2	8.3 J	<4.2	10	1			
Barium	161	125	89.6	2,000	400			
Chromium	<1.4	<1.4	3.7 J	5	0.5			
Lead	3.2 J	<2.7	<2.7	15	1.5			
Notes: Analytes detected above the method d VOCs = Volatile Organic Compounds RCRA = Resource Conservation and I $\mu g/L$ = micrograms per liter = parts per J = Concentration reported is between Italics results indicate concentrations of	etection limit (MDL) in Recovery Act er billion (ppb) the Method Detection I exceeding NR 140 PAL	at least one samp	ole are included in it of Quantitation	the Table	<u>.</u>			

Bold results indicate concentrations exceeding NR 140 ES

ES = Enforcement Standard per NR 140; PAL = Preventative Action Limit

#### 6.3 Waste Characterization Sample

A composite soil sample (Proto B-11) was collected from the site for landfill acceptance criteria (Protocol B) to provide waste characterization for potential off-site disposal and/or treatment of contaminated soils at a landfill.

Based on the laboratory analytical results, no cyanide, PCBs, TCLP VOCs, and TCLP Semivolatiles were detected in the sample. The general chemistry results for the sample included: flashpoint >210 deg. F, pH 8.4, specific gravity 1.6, sulfide 10.4 J mg/kg. No free liquids were encountered in the sample.

Table 4 presents the summary of soil quality results for the composite sample. See Attachment D for complete laboratory report.
TABLE 4 LABORATORY ANALYTICAL RESULTS - Protocol B Phase 2 Hazardous Materials Investigation										
Creative Tile and Marble (29-31 W. Main Street), Winneconne, Winnebago County Project ID: 6190-17-00										
Sample I.D. : Proto B-8	Sample Results	Units								
Sample I.D. : Proto B-8	~····F·· -···									
General Chemistry										
% of Solids	87.2	%								
Cvanide (total)	0.0070 J	mg/kg								
Flashpoint	>210	°F								
pH	8.4	pH Units								
Specific Gravity	1.6	N/A								
Free liquids	Pass	N/A								
Sulfide	10.4 J	mg/kg								
TCLP Metals										
Arsenic	<0.12	mg/L								
Barium	<1.2	mg/L								
Cadmium	<0.0025	mg/L								
Chromium	<0.12	mg/L								
Copper	<0.12	mg/L								
Lead	<0.015	mg/L								
Mercury	<0.10	mg/L								
Nickel	<0.12	mg/L								
Selenium	<0.12	mg/L								
Silver	<0.12	mg/L								
Zinc	<0.12	mg/L								
PCBs										
PCB-1016	<0.0287	mg/kg								
PCB-1221	<0.0287	mg/kg								
PCB-1232	<0.0287	mg/kg								
PCB-1242	<0.0287	mg/kg								
PCB-1248	<0.0287	mg/kg								
PCB-1254	<0.0287	mg/kg								
PCB-1260	<0.0287	mg/kg								
TCLP VOCs										
Benzene	<0.005	mg/L								
Methyl Ethyl Ketone	<0.027	mg/L								
Carbon Tetrachloride	<0.0037	mg/L								
Chlorobenzene	<0.0036	mg/L								
Chloroform	<0.0069	mg/L								
1,2-Dichloroethane	<0.0048	mg/L								
1,1-Dichloroethene	<0.0043	mg/L								
Tetrachloroethene	<0.0047	mg/L								
Trichloroethene	<0.0043	mg/L								
Vinyl Chloride	<0.0018	mg/L								

Phase 2 HMI - STH 116 (2nd Street - 2nd Avenue), Winneconne, Winnebago County, WI

TABLE 4 (Continued)									
LABORATORY ANALYTICAL RESULTS – Protocol B									
Phase 2 Hazardous Materials Investigation									
Creative Tile and Marble (29-31 W. Main Street), Winneconne, Winnebago County									
Project ID: 6190-17-00									
Sample I.D. Proto B-8         Sample Results         Units									
TCLP Semi-VOCs									
1,4-Dichlorobenzene	<0.0086	mg/L							
2,4-Dinitrotoluene	<0.0080	mg/L							
Hexachloro-1,3-butadiene	<0.0066	mg/L							
Hexachlorobenzene	< 0.0111	mg/L							
Hexachloroethane <0.0058 mg/L									
2-Methylphenol (o-Cresol)	<0.0097								
3&4-Methylphenol (m&p Cresol)	< 0.0077	mg/L							
Nitrobenzene	<0.0137	mg/L							
Pentachlorophenol	<0.0108	mg/L							
Pyridine	<0.0143	mg/L							
2,4,5-Trichlorophenol	<0.010	mg/L							
2,4,6-Trichlorophenol <0.0107 mg/L									
Notes: VOCs = Volatile Organic Compounds mg/kg = milligrams per kilogram = parts per million (ppm) mg/L = milligrams per liter = parts per million (ppm) TCL P = Toxicity Characteristic Leaching Procedure									

# 7.0 FINDINGS

- Based on field observations, the shallow subsurface soils at the site consisted of fill materials from the ground surface to a depth of approximately 6 feet bgs. The fill materials consisted mainly of red sandy clay, with trace wood and brick fragments, medium to fine sand with gravel, cinders, and glass fragments. Native brown to red clay tills with trace amounts of fine gravel were encountered below the fill materials to the terminal depths of 20 feet bgs. Groundwater was encountered in each temporary well, at depths ranging from 7.2 to 14.2 feet bgs.
- No GRO was detected in any of the samples collected. DRO was detected in B-11-1 2-4' below the NR 720 RCL.
- Two VOCs were detected in two of the soil samples. Tetrachloroethene and trichloroethene were both detected in B-11-1 8-10' and B-11-2 10-12'. No NR 720 RCL has been established for either of these VOCs.

- Six of the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, and mercury) were detected in the soil samples. Arsenic was detected above the NR 720 RCL in each of the six samples. Chromium was detected in each of the soil samples. Concentrations in five samples were detected above the NR 720 RCL, hexavalent chromium only. Lead was detected in each of the samples analyzed at concentrations which are below the NR 720 RCL. No standards exist for barium and mercury detected in the samples
- No petroleum constituents were detected in any of the water samples.
- Trichloroethene was detected above the NR 140 ES in each of the three samples. Tetrachloroethene was detected above the NR 140 ES in MW-11-1 and MW-11-2 and above the NR 140 PAL in MW-11-3. Vinyl chloride was detected above the NR 140 ES in MW-11-1 and MW-11-2. Cis-1,2-dichloroethene was detected in MW-11-1 and MW-11-2 above the NR 140 PAL. Trans-1,2-dichloroethene and 2-butanone (MEK) were also detected in MW-11-1, but are below their respective NR 140 PALs.
- Arsenic was identified in MW-11-2, chromium was identified in MW-11-3, and lead was identified in MW-11-1, and are all above their respective NR 140 PAL. Barium was detected below the NR 140 PAL in all samples.
- Based on the laboratory analytical results, no cyanide, PCBs, TCLP VOCs, and TCLP Semivolatiles were detected in the waste characterization sample. The general chemistry results for the sample included: flashpoint >210 deg. F, pH 8.4, specific gravity 1.6, sulfide 10.4 J mg/kg. No free liquids were encountered in the sample.
- Based on the age of the building (at least 1893), potential asbestos containing materials (ACM) and lead based paint (LBP) may be present in the building on site.

# 8.0 CONCLUSIONS AND RECOMMENDATIONS

- Based on the results of Himalayan's Phase 2 HMI, evidence of hazardous substance release (chlorinated solvent impacts) was documented at the site. Therefore, Himalayan recommends that a Phase 3 hazardous materials investigation (FDM Procedure: 21-35-15) be considered for the site to fully characterize and define the lateral and vertical extent of soil and groundwater contamination and assist in determining the value of the parcel for acquisition purposes, prior to the total take of the site.
- The impacts discovered at the site should be reported to the WDNR in order to satisfy the notification requirements per hazardous substance spills law, Section 292.11(2).

• Pre-demolition asbestos and lead surveys should be performed to evaluate whether ACMs or LBP are present in the structure. All demolition activities should be performed in accordance with local, state, and federal regulations.

# 9.0 **REFERENCES**

- 1. Winnebago County GIS Website. WINGS Property Profiler. http://wcgis.co.winnebago.wi.us/cgi-bin/wings/doc/gis\_menu.cgi
- Himalayan Consultants, LLC, (August 2012). Phase I Hazardous Material Assessment, WisDOT Project ID 1030-20-00, STH 116 Corridor Study (2nd Street - 2nd Avenue), Winneconne, Winnebago County, Wisconsin.
- 3. Wisconsin Department of Agriculture, Trade and Consumer Protection Storage Tank Database –http://apps.commerce.state.wi.us/ER\_Tanks/ER-EN-TankSearch.htm
- 4. Wisconsin Department of Transportation (December 2011). Facilities Development Manual, Procedures 21-35-10 and 21-35-30.
- Wisconsin Department Natural Resources (March 2011). Wisconsin Administrative Code NR 141, Groundwater Monitoring Well Requirements.
- 6. Wisconsin Department Natural Resources (September 2007). Wisconsin Administrative Code NR 720, Soil Cleanup Standards.
- Wisconsin Department Natural Resources (January 2012). Wisconsin Administrative Code NR 140, Groundwater Quality.

# ATTACHMENTS

Attachment A.	Figures											
	Figure 3.1. Site Overview Map											
	Figure 3.2. Soil Quality Map											
	Figure 3.3. Groundwater Quality Map											
Attachment B.	Soil Boring Logs and Borehole Abandonment Forms											
Attachment C.	Well Construction Forms											
Attachment D.	Laboratory Analytical Reports – Soil, Groundwater, and Waste Characterization											
Attachment E.	Site Photographs											

# ATTACHMENT A

# FIGURES



				Le m							
B-1	11-2			7 7	R R	B-11	-1				
Depth (feet)	2-4	10-12		CCC		Depth (feet)	2-4	8-10		8	5 Martin
Collection Date	7/30/	2013			al Mart	Collection Date	7/30/	2013			
GRO (mg/kg)	<2.7	<3.1				GRO (mg/kg)	<2.7	<3.1		208	
DRO (ma/ka)	<0.72	<0.82		m and		DRO (mg/kg)	2,9	<0.77			
VOCs (ug/kg)			8 F 🖸 🚺 🕇 👘 👘			VOCs (µg/kg)					
Tetrachloroethene	<26.9	747				Tetrachloroethene	<27.5	169	A-E-		
Trichloroethene	<26.9	162	B Charles	3	Booc	Trichloroethene	<27.5	195			
RCRA Metals (mg/kg)	20.0	102		Annextmale F		TCLP (mg/L)					
Arsenic	42	43		Pump Island Lo	ration	Lead	56.4	NA			
Barium	51.2	68.8		1342		RCRA Metals (mg/kg)			a su		
Cadmium	0.20 1	0.26 1			Auni	Arsenic	4.4	4.9			
Chromium	12.6	10.5				Barium	25.9	85.8	The second se	29.00	all
Chiomum	12.0	77			34000	Cadmium	0.13 J	0.28 J	37 88	30+00	23 00
Lead	4.5	1.1				Chromium	13	22.1		S-MAIN	STREPA
Mercury	0.11	0.016				Lead	4.1	5.4			
		1				Mercury	0.017	0.01	20	STON STON	C
30 00	HANNA -						1218				5
						HAAC .	5 2 6	7.2			9
	· • •							1			
						Existing	3				
							L 3 <mark>-</mark>	$\sim$			A CHARLES
B-1	1-3			tue							
Depth (feet)	2-4	8-10				- mar		JEND			
Collection Date	7/30/	2013						Soil Bo	ring		
GRO (mg/kg)	<2.8	<3.2			Approx		GR	O = Gasolin	e Range Organics		
DRO (mg/kg)	<0.74	<0.77					DR	O = Diesel F	lange Organics		
IN VOCs (µg/kg)	ND	ND			To V		, VO	Cs = Volatile	Organic Compou	nds	
RCRA Metals (mg/kg)			$\omega = \omega$	d The second			PA	Hs = Polynuc	lear Aromatic Hyd	rocarbons	
Arsenic	1.2 J	3.9	A Propose	dr/w			E Bol	d = Concent	ration above NR 7	20 RCLs or Interim	PAH Guidelines
Barium	16.8	73.3			E #11		J=	Estimated c	oncentration betw	een MDL & ARL	-
Chrom ium	6.6	19.7	$\sim$	A1 Auto S	Sales, Inc. /		TC	LP = Toxicity	Characteristic Lea	aching Procedure	
Lead	1.9	49	63-6	्र <mark>Steve's M</mark> ai	rine Service		MD	L = Method [	Detection Limit A	RL = Adjusted Repo	orting Limit
Lead	1.0	4.6		$= 105  \mathrm{E}, \mathrm{M}$	ai <del>n Street</del> ~~	m-	NA	= Not analyz	ed		
							Onl	v detections	of PAHs above Int	erim PAH Guideline	es are listed
				স 🔐 🕇	A C	631	All	VOC detection	ns are listed		
			Aller L		RR			voo detecht	and materia		
g Base Man Provi	ided By EMO	S Inc		NET BULLY W. SOLA	750		And a state of the second	-			
Aerial Provided	by CH2M F	Fill									
0 50	100		200			FIGURE 3	5.2: SO	IL OU	ALITY N	ЛАР	
Scale:	100		200					Ľ			
Beale.											
		N GON									N
HIN	AALAYA	N CONS	SULTANTS, LLC			Project	ID: 6190	)-17-00			
Engin	neers and Hy	drogeologi	sts			ů (	сти 116				
	6 N11357 Pi	Igrim Road	222			c c	,111 110				
Germ	(262) 502	sconsin 53	JZZ			2nd Stre	et - 2nd	Avenue			
Fax.	(262) 502· (262) 502-00	-0000 )77				Winneconne Winr	nehaon (	'ounty '	Wisconsin		
I dA.	(202) 502-00	,,,,				,, inneconne, ,, in	icougo C	Juniy,	100010111		
											,



#### Table 1 Summary of Soil Analytical Results Phase 3, STH 116 (Wolf River Bridge) Winneconne, WI WISDOT ID #6190-17-00

															VVI	300110#01	70-17-00																
														SAMPLE	E ID/ SAMPLE	DEPTH (FT B	GS)																
		Si	te 5			Si	ite 8	-	1		1		Si	te 9	-					Sit	e 11					Sit	e 12	1			NR 720 RCLs I	FOR SOIL <sup>(4)</sup>	
ANALYTE		GP5-1 2.5-5	GP5-1 10-12.5	GP8-1 5-7.5	GP8-1 12.5-15	GP8-2 2.5-5	GP8-2 7.5-10	GP8-3 5-7.5	GP8-3 12.5-15	GP9-1 2.5-5	GP9-1 7.5-10	GP9-2 5-7.5	GP9-2 7.5-10	GP9-3 2.5-5	GP9-3 7.5-10	GP9-4 5-7.5	GP9-4 10-12.5	GP11-1 2.5-5	GP11-1 7.5-10	GP11-2 2.5-5	GP11-2 12.5-15	GP11-3 5-7.5	GP11-3 12.5-15	GP12-1 2.5-5	GP12-1 12.5-15	GP12-2 5-7.5	GP12-2 12.5-15	GP12-3 10-12.5	GP12-3 17.5-20				
DATE		9/17/2014	9/17/2014	9/14/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/14/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/17/2018	9/17/2018	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014	GW	NON-INDUSTRIAL <sup>(3)</sup> DIRECT	INDUSTRIAL <sup>(3)</sup> DIRECT	BACKGROUND SURFICIAL
PID	PPM	1.3	0.1	126.7	0.5	1.2	10.8	0.8	1.1	28.1	0.8	0.7	0.3	1.0	0.8	0.9	1.1	1.1	1.7	2.6	10.7	4.3	6.1	1.8	6.2	1.6	2.7	64.2	689.2	PATH <sup>(2)</sup>	CONTACT	CONTACT	BTV <sup>(5)</sup>
DRO	malka			440	1.61	20.4	0.0	21.1	6.2	1					1						1			-0.77	0 70 1	0.001	1.01	0.021	4.4.1				1
DRO	mg/kg			440	1.0J	30.4	9.0	31.1	0.3															<0.77	0.795	0.800	1.05	0.030	1.1J	-	-	-	-
GRU	mg/kg									<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5							<2.5	<2.5	<2.5	<2.5	4.0J	20.5	-	-	-	-
VOCs				= 0																									= 0.0	1 530		07.000	1
ETHYLBENZENE	µg/kg	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	474	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500	1,570	7,470	37,000	-
ISOPROPYLBENZENE (CUMENE)	µg/kg	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	162	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500	-	268,000	268,000	-
	µg/kg	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	86.5	5/9	<25	49.7J	<25	<25	<25	430	<25	522	<25	191	<25	<25	8360	61300	3.6	1,260	8,810	-
	µg/кд	<40	<40	<80	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	236J	<40	<40	<40	<40	<40	<40	<40	<40	<160	<801	659	5,150	26,000	
	µg/kg	<25	<25	85.7J	<25	35.6J	<20	<25	<25	<25	<25	<25	<25	<20	<25	<25	<25	<25	<20	<25	<25	<25	<25	<25	<25	<25	<25	<100	<000	1,107	818,000	818,000	-
	µу/кд	<20	<20	<00	<20	39.9J	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	40.0J	<20	<20	<20	<20	<20	<20	<20	<20	<100	<000	1,382(5)	89,800	219,000	
1,3,5-TRIMETHYLBENZENE	µg/kg	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	730	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500	1,382(0)	182,000	182,000	-
METHYLENE CHLORIDE	µg/kg	35.1J	<25	54.2J	35.3J	<25	31.0J	25.2J	30.9J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	27.4J	<25	<25	<25	<25	<25	<25	<100	<500	2.6	60,700	1,070,000	
M&P-XYLENE	µg/kg	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50	59.5J	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<200	<1000	3,940(7)	258,000(7)	258,000(7)	-
O-XYLENE	µg/kg	<25	<25	<50	<25	33.0J	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500	3,940(7)	258,000(7)	258,000(7)	-
N-PROPYLBENZENE	µg/kg	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	772	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500		264,000	264,000	-
P-ISOPROPYLTOLUENE	µg/kg	<25	<25	572	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	52.1J	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500	-	162,000	162,000	-
SEC-BUTYLBENZENE	µg/kg	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	123	<25	<25	<25	<25	<25	<25	<25	<25	<100	<500	-	145,000	145,000	-
PAHs										-												-						-					-
ACENAPHTHENE	µg/kg	<8.3	<8.3	<16.7	<8.3	<8.3	<8.3	9.8J	18.5																					-	3,440,000	33,000,000	-
ACENAPHIHYLENE	µg/kg	10.2J	<7.5	30.8J	<7.5	64.1	<7.5	14.9J	51.8																					-	-	-	-
	µg/кд	30.1	<8.6	65.4	<8.6	148	<8.6	82.2	141																					197,727	17,200,000	100,000,000	
BENZO(A)ANTHRACENE	µg/kg	90.4	15.1J	130	<0.8	120	<5.8	1/3	200																					-	148	2,110	
	µg/kg	93.7	13.3J	1/4	<0.0	109	<0.0	157	102																					470	140	211	-
	µg/kg	71.3	12.4J	02.2	<0.3	233	<0.3	02.0	142																					479	140	1,200	
BENZO(G,I,I)FERTLENE	µg/kg	70.3	10.4J	1/0	<0.3	136	<0.3	92.9	200																						1 /180	21 100	
	µg/kg	103	23.8	226	< 7.7	192	< 7.7	140	200																					144.6	1/ 800	21,100	
DIBENZ(A H)ANTHRACENE	ug/kg	14.9.1	<6.1	36.1	<6.1	34.4	<6.1	23	35.8																					-	15	211	
FLUORANTHENE	ua/ka	172	42.9	332	<8.3	165	9.5.1	417	677																					88 877 8	2 290 000	22 000 000	-
FLUORENE	ua/ka	<8.3	<8.3	<16.7	<8.3	22.2	<8.3	17.6	66.4																					14.802.7	2,290,000	22,000,000	-
INDENO(1.2.3-CD)PYRENE	ua/ka	43.4	8.0J	76.8	<6.3	77.7	< 6.3	79.6	126																					-	148	2.110	-
1-METHYLNAPHTHALENE	µg/kg	<8.3	<8.3	175	<8.3	139	<8.3	<8.3	<8.3																					-	15,600	53,100	-
2-METHYLNAPHTHALENE	µg/kg	<8.3	<8.3	220	<8.3	174	<8.3	<8.3	<8.3																					-	229,000	2,200,000	-
PHENANTHRENE	µg/kg	82.8	24.5	252	<8.3	201	8.4J	210	451																					-	-	-	-
PYRENE	µg/kg	161	35.5	301	<8.3	158	<8.3	365	567																					54,132	1,720,000	-	
METALS		-																															
ARSENIC	mg/kg	3.5	4.4	3.5	2.1	6.6	3	2.5	3.9									2.2	3.2	3.7	2.9	2.6	5.8	3	4.8	3.1	2.7	3.8	3.3	0.58	0.613	2.39	8.0
BARIUM	mg/kg	58.2	67.8	94.9	21.8	79.5	65.2	43	71.2									37.2	55.2	100	56	38.1	55	50.6	63.5	53.2	52	54	44.9	164.80	15,300	100,000	364
CADMIUM	mg/kg	0.26J	< 0.063	1.1	< 0.064	0.34J	< 0.058	0.26J	< 0.061									< 0.057	< 0.063	< 0.057	< 0.066	< 0.065	< 0.060	< 0.066	< 0.062	< 0.063	< 0.060	< 0.062	< 0.064	0.75	70	799	1.0
CHROMIUM	mg/kg	9.9	18.3	12	8.7	8.8	20.2	8.7	19.1									14.4	18.6	28.8	18.1	16	16.9	18.9	16.2	14.6	17.6	14.3	12.2	360,000	100,000	100,000	44
LEAD	mg/kg	67.8	7.4	167	3.6	37.4	4.3	70.1	9.6									4	4.3	14.1	4.4	5.5	3.7	4.7	4.4	3.9	4.2	4.6	3.6	27	400	800	52
MERCURY	mg/kg	0.41	0.007	14.7	0.0032J	0.023	0.0050J	0.12	0.0059J									0.016	0.0072	0.045	0.0055J	0.0096	0.0054J	0.0079	0.0065	0.0061	0.0049J	0.0039J	0.0045J	0.208	3.13	3.13	-

#### HAZARD INDEX (CUMULATIVE) (8)

NON-INDUSTRIAL	-
INDUSTRIAL	-
CANCER RISK (CUMULATIVE) <sup>(8)</sup>	
NON-INDUSTRIAL	-
INDUSTRIAL	-

Notes:

Notes: RCLs = Residual Contaminant Levels. BTV = Background Threshold Value J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. - =Suggested standard has not been established for this analyte.

Sample was not analyzed for given catalysis of this analyze.
 Sample was not analyzed for given analyte.
 Bold = indicates that the analyte and/or sample exceeds the NR 720 RCL for direct contact (non-industrial or industrial), or standards for hazard index or cancer risk.
 *italics* = indicates that the analyte exceeds the groundwater pathway RCL

Footnotes:

 Footnotes:

 (1) Only analytes that were detected in at least one sample are shown in the table.

 (2) Value is the generic RCL for the groundwater pathway.

 (2) Value is the generic RCL for exposure by direct contact.

 (3) Calculated from USEPA Regional Screening Levels Web Calculator found at http://epa-prgs.oml.gov/cgi-bin/chemicals/csl\_search using default exposure assumptions listed in NR 720.12(3)

 (3) Background threshold value taken from the Wisconsin DNR's NR 720 RCL Spreadsheet

 (3) GW Pathway RCL is for combined 1,2,4 and 1,3,5 - Timethylbenzene

 (7) GW Pathway and Direct Contact RCL is for combined M,0&P Xylenes

 (8) Calculated using WDNR RCL Spreadsheet Calculator (June-14 Update)

1.38 0.294	<b>10.13</b> 2.158	-	1.0 1.0	1.0 1.0
6.60E-06	4.90E-05	-	1.0E-05	1.0E-05
9.50E-07	7.00E-06	-	1.0E-05	1.0E-05

Created By: B. Lipp 10/14/2014 Checked By: D. Haak 10/15/2014

#### Table 2 Summary of Groundwater Analytical Results Phase 3, STH 116 (Wolf River Bridge) Winneconne, WI WISDOT ID #6190-17-00

				WELL ID/DTB (FT BGS)													
						Sit	te 8			Site 9			Site 11			Site 12	
		GROUNE	NK 140 DWATER	TW5-1	TW8-1	TW8-2	TW8-3	TRC-8-1	TW9-1	TW9-2	TW9-3	TRC-11-1	TRC-11-2	TRC-11-3	TRC-12-1	TRC-12-2	TRC-12-3
		STANE	DARDS	15'	15'	15'	15'	15'	10'	10'	10'	15'	15'	15'	15'	15'	25'
ANALYTE <sup>(1)</sup>		ES	PAL	9/17/2014	9/17/2014	9/17/2014	9/17/2014	9/22/2014	9/17/2014	9/17/2014	9/14/2014	9/22/2014	9/22/2014	9/22/2014	9/22/2014	9/22/2014	9/22/2014
VOCs																	
BENZENE	µg/L	5	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	35.8	<5.0	< 0.50	< 0.50	< 0.50	<50.0
N-BUTYLBENZENE	µg/L	-	-	< 0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6.5	<5.0	<0.50	<0.50	<0.50	<50.0
1,1-DICHLOROETHENE	ug/L	7	0.7	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	1.0 J	<4.1	<0.41	<0.41	<0.41	<41.0
CIS-1,2-DICHLOROETHENE	ug/L	70	7	<0.26	<0.26	<0.26	<0.26	<0.26	0.33 J	<0.26	9.1	137	<2.6	<0.26	1.1	<0.26	27.0 J
TRANS-1,2-DICHLOROETHENE	ug/L	100	20	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	0.32 J	1.3 J	<2.6	<0.26	2.5	<0.26	<25.7
ETHYLBENZENE	ug/L	700	140	< 0.50	<0.50	<0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	97.9	<5.0	<0.50	<0.50	<0.50	<50.0
ISOPROPYLBENZENE (CUMENE)	µg/L	-	-	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	11.8	<1.4	<0.14	<0.14	<0.14	<14.3
P-ISOPROPYLTOLUENE	ug/L	-	-	0.58 J	3.8	<0.50	< 0.50	146	<0.50	<0.50	<0.50	1.5 J	<5.0	< 0.50	<0.50	<0.50	<50.0
METHYL-TERT-BUTYL ETHER	ug/L	60	12	<0.17	<0.17	0.27 J	<0.17	<0.17	<0.17	0.42 J	<0.17	<0.44	<1.7	<0.17	<0.17	<0.17	<17.4
NAPHTHALENE	µg/L	100	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	23.3	<25.0	<2.5	<2.5	<2.5	<250
N-PROPYLBENZNE	ug/L	-	-	<0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	22.4	<5.0	< 0.50	<0.50	<0.50	<50.0
TETRACHLOROETHENE	ug/L	5	0.5	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	<0.50	<0.50	< 0.50	4.0	<5.0	< 0.50	<0.50	<0.50	<50.0
TOLUENE	µg/L	800	160	< 0.50	0.94 J	<0.50	< 0.50	< 0.50	<0.50	<0.50	<0.50	13.7	<5.0	<0.50	<0.50	<0.50	<50.0
TRICHLOROETHENE	ug/L	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	53.5	130	1,030	64.8	127	<0.33	19,600
1,2,4-TRIMETHYLBENZENE	ug/L	480 <sup>(3)</sup>	96 <sup>(3)</sup>	< 0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	3.1	<5.0	<0.50	<0.50	<0.50	<50.0
1,3,5-TRIMETHYLBENZNE	ug/L	480 <sup>(3)</sup>	96 <sup>(3)</sup>	< 0.50	< 0.50	<0.50	<0.50	< 0.50	<0.50	<0.50	<0.50	23.0	<5.0	< 0.50	<0.50	<0.50	<50.0
VINYL CHLORIDE	ug/L	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	17.1	<0.18	8.7	<0.44	<1.8	<0.18	<0.18	<0.18	<17.6
M&P-XYLENE	ug/L	2000(4)	400(4)	<1.0	<1.0	<1.0	1.3 J	<1.0	<1.0	<1.0	<1.0	19.2	<10.0	<1.0	<1.0	<1.0	<100
O-XYLENE	µg/L	2000(4)	400(4)	<0.50	< 0.50	<0.50	0.69 J	< 0.50	<0.50	<0.50	<0.50	<1.2	<5.0	< 0.50	<0.50	<0.50	<50.0
DISSOLVED METALS																	
ARSENIC, DISSOLVED	µg/L	10	1	<7.2	<7.2	<6.8	<7.2	<7.2	9.0 J	11.7 J	<7.2	8.3 J	<7.2	<7.2	<7.2	<7.2	<7.2
BARIUM, DISSOLVED	µg/L	2000	400	32.6	574	122	176	228	287	266	118	108	52.1	116	82.2	123	41.1
CADMIUM, DISSOLVED	µg/L	5	0.5	< 0.60	< 0.60	<1.0	< 0.60	< 0.60	1.8 J	< 0.60	< 0.60	< 0.60	<0.60	< 0.60	0.63 J	< 0.60	< 0.60
CHROMIUM, DISSOLVED	µg/L	100	10	<2.1	<2.1	2.0J	<2.1	<2.1	39	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
LEAD, DISSOLVED	µg/L	15	1.5	6.5J	<3.0	5.7J	<3.0	3.6 J	198	5.5 J	<3.0	<3.0	<3.0	<3.0	<3.0	3.4 J	3.1 J
MERCURY, DISSOLVED	µg/L	2	0.2	<0.10	<0.10	<0.10	<0.10	<0.10	0.25	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
SELENIUM, DISSOLVED	µg/L	50	10	<6.7	<6.7	<6.8	<6.7	<6.7	<6.8	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SILVER, DISSOLVED	µg/L	50	10	<2.7	<2.7	<3.2	<2.7	<2.7	<3.2	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7
															Created By: ]	CKrause 10/14	1/14

Notes:

ES = NR140 Enforcement Standard

PAL = NR140 Preventative Action Limit

BGS = Below ground surface

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

B = Analyte was detected in the associated method blank.

- =Suggested standard has not been established for this analyte.

ITALIC = indicates that the analyte exceeds the WDNR NR140 PAL

BOLD = indicates that the analyte exceeds the WDNR NR140 ES

#### Footnotes:

<sup>(1)</sup> Only analytes with hits are shown in the graph

 $^{(2)}\,$  Heavy oil free product seen while purging well prior to groundwater sample being taken

<sup>(3)</sup> NR 140 Groundwater ES and PAL Standard is for combined 1,2,4- and 1,3,5- Trimethylbenzene

<sup>(4)</sup> Groundwater ES and PAL is for combined M,O&P Xylenes

\\ntapb-madison\msn-vol6\-\WPMSN\PJT2\223432\0000\2234320000-001.xlsx

Checked By: D. Haak 10/15/2014





E:\WI\_DOT\2014\_223432\223432-003slm.mxd

**FIGURE 1** 





# LEGEND

TRC SOIL BORING / 2" NR 141MONITORING WELL

- TRC SOIL BORING / TEMPORARY WELL
- TRC SOIL BORING
- + HISTORIC SOIL BORING / TEMPORARY WELL
- HISTORIC SOIL BORING
- PREVIOUS INVESTIGATION TEST PITS
  - PROPERTY BOUNDARY

## NOTES

- 1. BASE MAP IMAGERY FROM ESRI/MICROSOFT, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.
- 2. CONSTRUCTION DESIGN WORK SUPPLIED BY WisDOT.
- 3. PROPERTY BOUNDARIES SUPPLIED BY WINNEBAGO COUNTY GIS DEPARTMENT.
- 4. HISTORIC BORING / WELL LOCATIONS AND PROPERTY BOUNDARIES DIGITIZED FROM HIMALAYAN CONSULTANTS, LLC PHASE 1 & 2 FIGURES, LOCATIONS ARE APPROXIMATE.



1 " = 50 ' 1:600

PROJECT:

### WISDOT ID# 6190-17-00 STH 116 WINNECONNE, WISCONSIN

SHEET TITLE:

# SITE MAP- EAST

DRAWN BY:	RHODE B	SCALE:	PROJ. NO.	223432
CHECKED BY:	SIEWERT D	1: 600	FILE NO.	223432-010.mxd
APPROVED BY:	HAAK D	DATE PRINTED:		
DATE:	NOVEMBER 2014			FIGURE 2



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# LEGEND

-

 $\bullet$ 

TRC SOIL BORING / 2" NR 141MONITORING WELL

TRC SOIL BORING / TEMPORARY WELL

HISTORIC SOIL BORING / TEMPORARY WELL

HISTORIC SOIL BORING

PROPERTY BOUNDARY

## NOTES

- 1. BASE MAP IMAGERY FROM ESRI/MICROSOFT, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.
- 2. CONSTRUCTION DESIGN WORK SUPPLIED BY WisDOT.
- 3. PROPERTY BOUNDARIES SUPPLIED BY WINNEBAGO COUNTY GIS DEPARTMENT.
- 4. HISTORIC BORING / WELL LOCATIONS AND PROPERTY BOUNDARIES DIGITIZED FROM HIMALAYAN CONSULTANTS, LLC PHASE 1 & 2 FIGURES, LOCATIONS ARE APPROXIMATE.



1:600

PROJECT:

### WISDOT ID# 6190-17-00 STH 116 WINNECONNE, WISCONSIN

SHEET TITLE:

# SITE MAP- WEST

DRAWN BY:	RHODE B	SCALE:	PROJ. NO.	223432
CHECKED BY:	SIEWERT D	1: 600	FILE NO.	223432-011.mxd
APPROVED BY:	HAAK D	DATE PRINTED:		
DATE:	NOVEMBER 2014			FIGURE 3



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(Foot US) Feet ≩ 983 NAD Ś dinate Coor

11:36:26 AM 11/6/2014, ы BRHO - .... By:

# LEGEND

-

TRC SOIL BORING / 2" NR 141MONITORING WELL

TRC SOIL BORING / TEMPORARY WELL

 $\bigcirc$ TRC SOIL BORING

 $\bullet$ HISTORIC SOIL BORING / TEMPORARY WELL

HISTORIC SOIL BORING

PREVIOUS INVESTIGATION TEST PITS

GROUNDWATER CONTAMINATION ISOCONCENTRATION CONTOUR (TCE PAL - 0.5µg/L, DASHED WHERE INFERRED)



GROUNDWATER ELEVATION CONTOUR (2 FT INTERVAL, DASHED WHERE INFERRED)

PROPERTY BOUNDARY



GROUNDWATER FLOW DIRECTION

SAMPLE ID (GROUNDWATER ELEVATION, FT) TCE CONCENTRATION [µg/L]

# NOTES

- BASE MAP IMAGERY FROM ESRI/MICROSOFT, "WORLD 1. IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.
- 2. CONSTRUCTION DESIGN WORK SUPPLIED BY WisDOT.
- 3. PROPERTY BOUNDARIES SUPPLIED BY WINNEBAGO COUNTY GIS DEPARTMENT.
- HISTORIC BORING / WELL LOCATIONS AND PROPERTY 4. BOUNDARIES DIGITIZED FROM HIMALAYAN CONSULTANTS, LLC PHASE 1 & 2 FIGURES, LOCATIONS ARE APPROXIMATE
- 5. TCE ISOCONCENTRATION DEVELOPED USING LOGARTHIMIC SCALE.
- TEMPORARY WELL GROUND SURFACE ELEVATION IS 6. DERIVED FROM 10 METER DIGITAL ELEVATION MODEL.
- 7. TCE PAL 0.5 μg/L, ES 5.0 μg/L

0	50	1'	00 Feet		
1 " = 50 ' 1:600			11661		/ IN
PROJECT:	W WIN	ISDOT ID# 6 STH 1 INECONNE, 1	190-17-0 16 WISCON	)0 ISIN	
SHEET TITLE:	GRO CONTAMIN	UNDWATER	FLOW CENTRA R 2014		МАР
DRAWN BY:	RHODE B	SCALE:	PROJ.	NO.	223432
CHECKED BY:	SIEWERT D	1: 600	FILE N	10.	223432-012.mxd
APPROVED BY:	HAAK D	DATE PRINTED:			
DATE:	NOVEMBER 2014	l			FIGURE 4
Q	TRC	2	708 Hean Madison, Phone: 60 www.trcso	tand Trail, WI 53717 18.826.360	Suite 3000 70 m





# LEGEND

-	TRC SOIL BORING / 2" NR 141MONITORING WELL
<b>+</b>	TRC SOIL BORING / TEMPORARY WELL
S	TRC SOIL BORING
$\bullet$	HISTORIC SOIL BORING / TEMPORARY WELL
•	HISTORIC SOIL BORING
$\otimes$	PREVIOUS INVESTIGATION TEST PITS
	PROPERTY BOUNDARY
$\angle$	POTENTIALLY CONTAMINATED SOIL
5	ESTIMATED DEPTH TO CONTAMINATED SOIL FEET BGS

# NOTES

- 1. BASE MAP IMAGERY FROM ESRI/MICROSOFT, "WORLD IMAGERY", WEB BASEMAP SERVICE LAYER, 2011.
- 2. CONSTRUCTION DESIGN WORK SUPPLIED BY WisDOT.
- 3. PROPERTY BOUNDARIES SUPPLIED BY WINNEBAGO COUNTY GIS DEPARTMENT.
- 4. HISTORIC BORING / WELL LOCATIONS AND PROPERTY BOUNDARIES DIGITIZED FROM HIMALAYAN CONSULTANTS, LLC PHASE 1 & 2 FIGURES, LOCATIONS ARE APPROXIMATE.



1 " = 50 ' 1:600

#### PROJECT: WISDOT ID# 6190-15-01 STH 116 WINNECONNE, WINNEBAGO COUNTY WISCONSIN

SHEET TITLE:

# SITE MAP- EAST

DRAWN BY:	B DEEGAN	SCALE:	PROJ. NO.	254450
CHECKED BY:	D HAAK	1: 600	FILE NO.	254450-003.mxd
APPROVED BY:	D HAAK	DATE PRINTED:		
DATE:	DECEMBER 2016			FIGURE 2



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WOLF RIVER



RIVER MOL



RIVER WOLF

OP <u>ERTY BOUNDARY</u>	
TER LINE	
NITARY SEWER_LINE.	
ORM_SEWER_LINE	
TURAL GAS LINE	
ER OPTIC LINE	
RIED_ELECTRIC	
ERHEAD UTILITIES	



RIVER

WOLF

OPERTY BOUNDARY	
<u>NTER LINE</u>	
<u>NITARY SEWER LINE</u>	
ORM SEWER LINE	
<u>TURAL GAS LINE</u>	
ER OPTIC LINE	
RIED_ELECTRIC	
ERHEAD_UTILITIES	ARCONON
	*
	Summers.



С Ш

RIV

**WOL** 

PAL EXCEEDANCES FOR TRICHLORORETHENE, TETRACHLOROETHENE. AND/OR

EXCEEDANCES FOR ARSENIC. THIS APPEARS TO BE DUE TO A REGIONAL ISSUE WITH ELEVATED ARSENIC LEVELS IN SOIL. HOWEVER. ALL OF THE LEVELS OF ARSENIC WERE BELOW THE STATEWIDE SOIL BACKGROUND THRESHOLD VALUE



 $\alpha$ RIS Ō

 $\geq$ 

ERP SITE LOCATED APPROXIMATELY 50 FEET EAST (UP-GRADIENT) OF THE SUBJECT



GEOLOGIO -SECTION	C CROSS FIGURES	
5 EAST M	AIN STREET	
TCO TCO 709 Gillette Street, Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879	WINNECONNE. WISCONSIN	
Fax: (608) 781-8893	DRAWN BY: ED DATE: 08/05/2015	
: INFORMATION BA	SED ON AVAILABLE IONS MAY DIFFER	SCALE: I INCH - IS FEET

- MONITORING WELL LOCATION (105 E MAIN ST)

- MONITORING WELL LOCATION (DOT PHASE 3)

♦ = GEOPROBE BORING/TEMPORARY WELL LOCATION (ABANDONED - 105 E MAIN ST) ● = GEOPROBE BORING LOCATION (IO5 E MAIN ST)

⊗ - GEOPROBE BORING/TEMPORARY WELL LOCATION (ABANDONED - DOT PHASE 2) ● - GEOPROBE BORING LOCATION (DOT PHASE 2/3)

• TEST PIT - FALK PROPERTY - 1991

- UTILITY POLE

Q= LIGHT POLE

- STORM DRAIN

DTV			
11.1	DVVI		-

WATER LINE

SANITARY SEWER LINE.

STORM SEWER\_LINE

NATURAL GAS LINE

FIBER OPTIC LINE

BURIED ELECTRIC

OVERHEAD UTILITIES \_\_\_\_ \_\_\_\_ \_\_\_ \_\_\_ \_\_\_

I) THE GROUNDWATER ISOCONCENTRATION MAP IS BASED ON GROUNDWATER ANALYTICAL RESULTS FROM THE NOVEMBER 28. 2016 GEOPROBE PROJECT. DECEMBER 2. 2017 GROUNDWATER SAMPLING EVENT (TEMPORARY WELLS). AND MAY 15, 2017 SAMPLING EVENT (MONITORING WELLS).

2) SOIL SAMPLES B-II-I (8-10 FEET BGS). B-II-2 (10-12 FEET BGS). GP-II-2. (12.5-15 FEET BGS). AND GP-II-3 (12.5-15 FEET BGS) SHOWED NR720 GROUNDWATER RCL EXCEEDANCES FOR TRICHLORORETHENE AND/OR TETRACHLOROETHENE. HOWEVER, ALL OF THESE SOIL SAMPLES WERE COLLECTED BELOW THE ALL-TIME LOW WATERTABLE (SATURATED). ALSO. MONITORING WELLS MW-I THOUGH MW-4. TRC-II-I, TRC-II-2, AND TRC-II-3 AND TEMPORARY WELLS MW-II-I, MW-II-2, AND MW-II-3 SHOWED NRI40 ES AND/OR PAL EXCEEDANCES FOR TRICHLORORETHENE. TETRACHLOROETHENE, AND/OR CIS-L2-DICHLOROETHENE, HOWEVER, THIS CHLORINATED GROUNDWATER CONTAMINATION IS FROM THE OPEN PDK PROPERTIES ERP SITE LOCATED APPROXIMATELY 50 FEET EAST (UP-GRADIENT) OF THE SUBJECT PROPERTY.

3) UNSATURATED SOIL SAMPLES COLLECTED FROM GEOPROBE/SOIL BORING LOCATIONS B-II-I, B-II-2, B-II-3, TRC-II-1, TRC-II-2, AND TRC-II-3 SHOWED NR720 NON-INDUSTRIAL DIRECT CONTACT AND GROUNDWATER RCL EXCEEDANCES FOR ARSENIC. ALSO, MONITORING WELL TRC-II-I AND TEMPORARY WELL MW-II-2 SHOWED NRI40 PAL EXCEEDANCES FOR ARSENIC. THIS APPEARS TO BE DUE TO A REGIONAL ISSUE WITH ELEVATED ARSENIC LEVELS IN SOIL. HOWEVER, ALL OF THE LEVELS OF ARSENIC WERE BELOW THE STATEWIDE SOIL BACKGROUND THRESHOLD VALUE OF 8 PPM.



- SOL SAMPLES B-IH (8-10 FEET BGS), B-IH-2 (0-12 FEET BGS), GR-UNDWATER RCL EXCEEDANCES FOR TRICHLORORETHENE AND/OR TETRACHLOROETHENE. HOWEVER, ALL OF THESE SOLL SAMPLES WERE COLLECTED BELOW THE ALL-TIME LOW WATERTABLE (SATURATED), ALSO, MONITORING WELLS MW-1 THOUGH MW-4, TRC-IH, TRC-IH-2, AND TRC-IH-3 AND TEMPORARY WELLS MW-1H, MW-IH-2, AND MW-H-3 SHOWED NRI4O ES AND/OR PAL EXCEEDANCES FOR TRICHLORORETHENE. TETRACHLOROETHENE, AND/OR CIS-12-DICHLOROETHENE, HOWEVER, THIS CHLOROMEDIA WATERTABLE ON THE AND/OR CIS-12-DICHLORORETHENE. CHLORINATED GROUNDWATER CONTAMINATION IS FROM THE OPEN PDK PROPERTIES ERP SITE LOCATED APPROXIMATELY 50 FEET EAST (UP-GRADIENT)
- LICATION BULL SALL SALTELES CULLECTED FROM OBDITION SULL SALT LICATIONS BULL SALTELES CULLECTED FROM OBDITION SHOWED NR720 NON-INDUSTRIAL DIRECT CONTACT AND GROUNDWATER RCL EXCEEDANCES FOR ARSENIC. ALSO, MONITORING WELL TRC-II-1 AND TEMPORARY WELL MW-II-2 SHOWED NRI4O PAL EXCEEDANCES FOR ARSENIC. THIS APPEARS TO BE DUE TO A REGIONAL ISSUE WITH ELEVATED ARSENIC LEVELS IN SOIL. HOWEVER, ALL OF THE LEVELS OF ARSENIC WERE BELOW THE STATEWIDE SOIL BACKGROUND THRESHOLD VALUE OF 8 PPM.

#### A.2 Soil Analytical Results Table 105 E. Main St. Property - WI DOT BRRTS 03-71-562271

																	DIRECT COI	NTACT PVOCA	/OC & RCRA
Sample	Depth	Saturation	Date	PID	Lead	DRO	GRO	1	Ethyl	1	Naph-		1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's			Cumulative
ID	(feet)	U/S			(ppm)	(ppm)	(ppm)	Benzene	Benzene	MTBE	thalene	Toluene	thylbenzene	thylbenzene	(Total)	(ppb)	Exeedance	Hazard	Cancer
P 11 1	24		07/20/12	0.0	4.1	2.0	<2.7	(ppm)	(ppm)	(ppin)	[ (ppm)			(ppm)	I (ppm)	VOC's &		1.09E.02	
D-11-1	2-4		07/30/13	0.0	4.1	2.9	<2.1	ļ				NUDETEC				RCRA Metals	1	1.08E-03	0
B-11-1	8-10	s	07/30/13	0.0	5.4	<0.77	<3.1				I	VO DETEC	CTS			RCRA Metals			
B-11-2	2-4	U	07/30/13	0.0	4.3	<0.72	<2.7					NO DETEC	CTS			VOC's &	1	7.01E-03	0
P 11 0	10.10		07/20/42	0.0		-0.00			·····							VOC's &			
D-11-2	10-12		07/30/13	0.0	1.1	<0.82	<3.1	ļ								RCRA Metals			
B-11-3	2-4	U	07/30/13	0.0	1.9	<0.74	<2.8				1	NO DETEC	TS			RCRA Metals	1	0	0
B-11-3	8-10	S	07/30/13	0.0	4.9	<0.77	<3.2				1	NO DETEC	TS			VOC's &			
GP-11-1	25.5		00/17/14	11	40	NS	NIS	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.075	VOC's &	1	1.62E-03	4 28E-08
	2.0-0		00/17/14	1.1	4.0			<0.025	~0.025	-0.023	~0.040	~0.025	~0.023	~0.023	-0.010	RCRA Metals	·	1.021 00	4.202-00
GP-11-1	7.5-10	S	09/17/14	1.7	4.3	NS	NS	<0.025	0.474	<0.025	0.236 "J"	<0.025	0.0466 "J"	0.73	<0.075	RCRA Metals			
GP-11-2	2.5-5	U	09/18/14	2.6	14.1	NS	NS	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.075	VOC's & RCRA Metals	1	2.87E-03	0
GP-11-2	12.5-15	S	09/18/14	10.7	4.4	NS	NS	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.075	VOC's &			
00.44.0	6.7.6		00/40/44	4.0						-0.005			-0.005	-0.005	-0.075	VOC's &			
GP-11-3	5-7.5		09/18/14	4.3	5.5	NS	NS	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.075	RCRA Metals			
GP-11-3	12.5-15	S	09/18/14	6.1	3.7	NS	NS	<0.025	<0.025	<0.025	<0.040	<0.025	<0.025	<0.025	<0.075	RCRA Metals			
G-1-1	3.5	U	11/28/16	1.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-1-2	7.0	<u> </u>	11/28/16	2.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS NC			
G-1-3	10.0		11/28/10	2.9 NM	NS NC		NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS NS	0		
G-2-7	70		11/28/16	2.0	NO	NC	NC	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS NS			
G-2-3	10.0	<u> </u>	11/28/16	3.4			145	<0.025	<0.020	NOT		-0.025	×0.020	\$0.020	-0.075	NS			
G-3-1	4.0		11/28/16	25	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-3-2	7.0	Ŭ	11/28/16	2.3	NS	NS	NS	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	< 0.075	NS			
G-3-3	10.0	S	11/28/16	2.6						NOT	SAMPLED					NS			
G-4-1	3.5	U	11/28/16	1.5	NS	NS	NS	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-2	6.0	S	11/28/16	4.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-3	10.0	S	11/28/16	458.0						NOT	SAMPLED					NS			
G-5-1	3.5	<u> </u>	11/28/16	0.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	< 0.075	NS	0		
G-5-2	5.0	<u> </u>	11/28/16	0.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS NC			
G-5-3	10.0		11/28/10	95.0	NC	NO	NC	<0.025 I	<0.025		SAMPLED	<0.025	<0.025	<0.025	<0.075		0	· · · · ·	
G-6-2	60		11/28/16	2.5	NIS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-6-3	10.0	s	11/28/16	208.0				-0.02.0	-0.020	NOT	SAMPLED	-0.020	-0.020	0.020	-0.070	NS	0		
G-7-1	3.5	Ū	11/28/16	1.5	NS	NS	NS I	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-2	7.0	S	11/28/16	3.7	NS	NS	NS	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-3	10.0	S	11/28/16	2.2						NOT S	SAMPLED					NS			
MW-1-1	3.5	U	11/28/16	954.0	NS	NS	NS	<0.32	<u>32</u>	<0.5	<u>65</u>	1.44	<u>306</u>	104	<u>297*</u>	NS	4	1.87E+00	1.58E-05
MW-1-2	7.0	S	11/28/16	776.0	NS	NS	NS	0.68	2.03	<0.25	2.89	<0.25	11.8	4.3	14.9	NS			
MVV-1-3	12.0	<u> </u>	11/28/16	6.2						NOT	AMPLED					NS NC			
MIN 2 1	10.0		11/20/10	21.5	NC T	NET	NCT	<0.00E T	<0.025		0 1 40	<0.02E	0.20	0.10	0.221	NS NC			
MM/-2-1	5.0	<del>+</del>	11/28/16	35.0	INS	113	IND	~0.020	<u>~0.025</u>	NOT 9	0.149 SAMPLED	NU.U25	0.30	0.12	0.231				
MW-2-3	12.0	- <u>s</u>	11/28/16	39				······		NOT	SAMPLED					NS			
MW-3-1	3.5	- Ŭ	11/28/16	2.4						NOT	AMPLED					NS			
MW-3-2	8.0	s	11/28/16	4.9						NOTS	AMPLED					NS			
MW-3-3	12.0	S	11/28/16	2.3						NOT S	SAMPLED					NS			
MW-4-1	3.5	U	11/28/16	1.5						NOTS	SAMPLED					NS			
MW-4-2	8.0	S	11/28/16	1.2						NOT 5	AMPLED					NS			
MW-4-3	12.0	S	11/28/16	1.5	T	r	······································			NOT S	AMPLED					NS			
Store dure to	N BCI							0.00540	4 57	0.007	0.6592				2.00				
Jon-Induct-	ial Diroct	Contact PC			400		-	1.6	8.02	63.9	0.0002	819	210	182	2:30			- 1.00E+00	1.005-05
ndustrial D	irect Conf	act RCI	-		(800)	-	-	1.0	(35 /1)	(282)	(24 1)	(818)	(210)	(182)	(258)		ł	(1.00E+00)	(1.00E-05)
Soil Saturat	ion Conce	entration (C-	sat)*		-	-	-	1820*	480*	8870*	~ /~	818*	219*	182*	258*				-

 Soil Saturation Concentration (C-sat)\*

 Bold = Groundwater RCL Exceedance

 Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance Bold & Asteric \* = C-sat Exceedance

.

NM = Not Measured

NS = Not Sampled

(ppm) = parts per million

DRO = Diesel Range Organics GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

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# A.2 Soil Analytical Results Table 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

## Sampling Conducted on November 28, 2016

Bold = Groundwater RCL	Underline & Bold = Non- Industrial Direct Contact RCL	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C- sat) RCL
RUL	CONTACT RUL	CONTACT NOL	Sagnor

VOC's														RCL	Contact RC	Contact RCL	sat) RC
Sample ID# Sample Depth/ft. Date	B-11-1 0-2 7/30/13	B-11-1 8-10 7/30/13	B-11-2 2-4 7/30/13	B-11-2 10-12 7/30/13	B-11-3 2-4 7/30/13	B-11-3 8-10 7/30/13	GP-11-1 2.5-5 9/17/14	GP-11-1 7.5-10 9/17/14	GP-11-2 2.5-5 9/18/14	GP-11-2 12.5-15 9/18/14	GP-11-3 5-7.5 9/18/14	GP-11-3 12.5-15 9/18/14	MW-1-1 3.5 11/28/16				
Solids Percent													82.2				
Benzene/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.32	0.00512	<u>1.6</u> 342	(7.07) (679)	1820* = =
Bromobenzene/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	< 0.025	< 0.025	<0.025	<0.025	<0.025	< 0.76	0.000326	<u>542</u> 0.418	(1.83)	= =
Bromodichloromethane/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.5	0.000320	25.4	(113)	= =
Bromoform/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.40	= =	183	(183)	183*
tert-Butylbenzene/ppm	ND		ND				<0.025	0.025	<0.025	<0.025	<0.025	<0.025	5.7	= =	145	(145)	145*
sec-Butylbenzene/ppm					ND	ND	<0.020	<0.025	<0.025	<0.025	<0.025	<0.025	35	= =	108	(108)	108*
n-Butyipenzene/ppm Carbon Tetrachloride/ppm			ND	) ND	ND	ND	<0.025	< 0.025	<0.025	< 0.025	<0.025	<0.025	< 0.42	0.00388	<u>0.916</u>	(4.03)	= =
Chlorobenzene/npm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.78	= =	<u>370</u>	(761)	761*
Chloroethane/ppm	ND	) ND	ND	ND	ND	ND	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	< 0.9	0.227	= =	= =	= =
Chloroform/ppm	ND	ND	ND	ND	ND	ND	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	<0.0464	< 0.52	0.0033	0.454	(1.98)	==
Chloromethane/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 5	0.0155	<u>159</u>	(669)	
2-Chlorotoluene/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	< 0.025	<0.025	< 0.025	<0.025	< 0.58	= =	==		
4-Chlorotoluene/ppm	NÐ	) ND	ND	) ND	ND	ND	< 0.025	< 0.025	< 0.025	<0.025	<0.025	<0.025	< 0.64	0.000173	0.008	(0.092)	= =
1,2-Dibromo-3-chloropropane/ppm	ND	ND	ND	) ND	ND	ND	< 0.0912	<0.0912	<0.0912	<0.0912	<0.0912	<0.0912	< 0.62	0.000173	8.28	(38.9)	= =
Dibromochloromethane/ppm	ND	ND ND	ND		ND		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.6	0.144	3.74	(16.4)	= =
1,4-Dichlorobenzene/ppm	ND						<0.025	<0.025	<0.025	<0.025	<0.020	<0.025	< 0.6	1.1528	297	(193)	297*
1,3-Dichlorobenzene/ppm					ND	ND	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	< 0.78	1.168	376	(376)	376*
Dichlorodifluoromethane/ppm	ND		ND	ND ND	ND	ND	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	< 0.86	3.0863	<u>126</u>	(530)	= =
1.2-Dichloroethane/ppm	ND	) ND	ND	) ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.6	0.00284	0.652	(2.87)	540*
1.1-Dichloroethane/ppm	ND	) ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.5	0.4834	<u>5.06</u>	(22.2)	= =
1,1-Dichloroethene/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.58	0.00502	320	(1190)	1190^
cis-1,2-Dichloroethene/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	< 0.42	0.0412	<u>156</u> 4560	(2340)	
trans-1,2-Dichloroethene/ppm	ND	ND	ND	ND	ND	ND	<0.025	< 0.025	<0.025	< 0.025	< 0.025	<0.025	< 0.48	0.626	1560	(1050)	==
1,2-Dichloropropane/ppm	ND	ND	ND	ND	ND	ND	<0.025	< 0.025	< 0.025	<0.025	<0.025	<0.025	< 0.5	0.00332	101	(191)	191*
2,2-Dichloropropane/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.62	= =	1490	(1490)	1490*
1,3-Dichloropropane/ppm	ND	ND ND	ND		ND		<0.025	<0.025	<0.025	<0.023	<0.025	<0.025	< 0.24	= =	2260	(2260)	2260*
Di-isopropyl ether/ppm	ND						<0.025	<0.025	<0.025	<0.025	<0.020	<0.025	< 0.7	0.0000282	0.05	(0.221)	= =
EDB (1,2-Dibromoethane)/ppm					ND	ND	<0.025	0.474	<0.025	<0.025	< 0.025	<0.025	32	1.57	8.02	(35.4)	480*
Etnyibenzene/ppm Horseblorobutadione/ppm	ND		ND		ND	ND	<0.025	<0.025	< 0.025	< 0.025	< 0.025	<0.025	< 2.2	= =	1.63	(7.19)	= =
Isopropylbenzene/ppm	ND	ND	ND	ND	ND	ND	<0.025	0.162	<0.025	<0.025	<0.025	<0.025	5.8	= =	= =	= =	= =
n-isopropyliouene/ppm	ND	ND	ND	ND	ND	ND	<0.025	0.0521 "J"	<0.025	<0.025	<0.025	<0.025	3.5 "J"	= =	<u>162</u>	(162)	162*
Methylene chloride/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	0.0274 "J"	<0.025	<0.025	< 4.4	0.00256	<u>61.8</u>	(1150)	= =
Methyl tert-butyl ether (MTBE)/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	< 0.5	0.027	<u>63.8</u> 5.52	(202)	
Naphthalene/ppm	ND	ND	ND	ND	ND	ND	<0.040	0.236 "J"	<0.040	<0.040	< 0.040	<0.040	<u>b5</u>	0.6582	<u>5.52</u> 	(24.1)	==
n-Propylbenzene/ppm	ND	ND	ND	ND	ND	ND	<0.025	0.772	<0.025	<0.025	<0.025	<0.025	20.4 < 0.26	0.000156	0.81	(3.6)	= =
1,1,2,2-Tetrachloroethane/ppm	ND	ND	ND	ND ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.20	0.0534	2.78	(12.3)	= =
1,1,1,2-Tetrachloroethane/ppm	ND 0075			0.0747	<0.0259	-0.0250	<0.025	<0.025	<0.025	<0.025	<0.020	<0.025	< 1.08	0.00454	33	(145)	= =
Tetrachioroethene (PCE)/ppm	<0.0275		<0.0209 ND		ND	<0.0200 ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.44 "J"	1.11	<u>818</u>	(818)	818*
i oluene/ppm	ND				ND	ND	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	< 1.7	0.408	24	(113)	= =
1,2,4- Trichlorobenzene/ppm	ND	ND	ND	ND	ND	ND	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 2.4	= =	<u>62.6</u>	(934)	= =
1 1 1-Trichloroethane/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.8	0.1402	= =	= =	= =
1.1.2-Trichloroethane/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.66	0.00324	<u>1.59</u>	(7.01)	= =
Trichloroethene (TCE)/ppm	<0.0275	0.195	<0.0269	0.162	<0.0258	<0.0250	<0.025	<0.025	<0.025	0.43	<0.025	0.522	< 0.84	0.00358	<u>1.3</u>	(8.41)	= =
Trichlorofluoromethane/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 1.2	2.2387	<u>1230</u>	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	ND	ND	ND	ND	ND	ND	<0.025	0.0466 "J"	<0.025	< 0.025	< 0.025	< 0.025	<u>306</u>	1.38	219	(213)	213 192*
1,3,5-Trimethylbenzene/ppm	ND	ND	ND	ND	ND	ND	<0.025	0.73	< 0.025	< 0.025	<0.025	<0.025	104	0 000420	<u>104</u> 0.07	(2 02)	= =
Vinyl Chloride/ppm	ND	ND	ND	ND	ND	ND	< 0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	< U.2 206	0.000130	0.07	(2.00)	
m&p-Xylene/ppm	ND	ND	ND	ND	ND	ND	<0.050	<0.050	<0.000	<0.050	<0.050 <0.025	<0.000	<u>200</u> Q1	3.96	<u>260</u>	(260)	258*
o-Xylene/ppm	ND	ND	ND	ND	ND	ND	<0.025	<0.025	<0.025	~0.025	~0.025	~0.020	51				

NS = Not Sampled, NM = Not Measured

(ppm) = parts per million = = No Exceedences

ND = Not Detected

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Note: Non-Industrial RCLs apply to this site.

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### A.2 Soil Analytical Results Table (8 – RCRA Metals) 105 E. Main St. Property - WI DOT BRRTS 03-71-562271

												DIRECT CO RCRA M	ONTACT PVO IETALS COMI	C/VOC & BINED
Sample	Depth	Saturation	Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver			Cumulative
ID	(feet)	U/S		Total	Total	Total	Total	Total	Total	Total	Total	Exeedance	Hazard	Cancer
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	Count	Index	Risk
B-11-1	2-4	U	07/30/13	4.4	25.9	0.13 "J"	13.0	4.1	0.017	ND	ND	1	1.08E-03	00
B-11-1	8-10	S	07/30/13	4.9	85.8	0.28 "J"	22.1	5.4	0.010	ND	ND			
B-11-2	2-4	U	07/30/13	4.2	51.2	0.20 "J"	12.6	4.3	0.11	ND	ND	1	7.01E-03	0
B-11-2	10-12	S	07/30/13	4.3	68.8	0.26 "J"	18.5	7.7	0.016	ND	ND			
B-11-3	2-4	U	07/30/13	1.2 "J"	16.8	<0.047	6.6	1.9	< 0.0032	ND	ND	1	0	0
B-11-3	8-10	S	07/30/13	3.9	73.3	<0.23 "J"	19.7	4.9	<0.0076	ND	ND			
GP-11-1	2.5-5	U	09/17/14	2.2	37.2	<0.057	14.4	4.0	0.016	<0.67	<0.24	1	1.62E-03	4.28E-08
GP-11-1	7.5-10	S	09/17/14	3.2	55.2	< 0.063	18.6	4.3	0.0072	<0.74	<0.27			
GP-11-2	2.5-5	U	09/18/14	3.7	100	<0.057	28.8	14.1	0.045	<0.66	<0.24	1	2.87E-03	0
GP-11-2	12.5-15	S	09/18/14	2.9	56	<0.066	18.1	4.4	0.0055 "J"	<0.77	<0.28			
GP-11-3	5-7.5	U	09/18/14	2.6	38.1	<0.065	16.0	5.5	0.0096	<0.75	<0.27			
GP-11-3	12.5-15	S	09/18/14	5.8	55	<0.060	16.9	3.7	0.0054 "J"	<0.70	<0.25			
Groundwa	ter RCL			0.584	164.8	.752	360000	27	.208	.520	0.8491		-	-
Non-Indust	trial Dire	ct Contact F	<u>RCL</u>	<u>0.677</u>	<u>15300</u>	<u>71.1</u>	-	<u>400</u>	<u>3.13</u>	<u>391</u>	<u>391</u>		<u>1.00E+00</u>	<u>1.00E-05</u>
Industrial I	Direct Co	ontact RCL		(3)	(100000)	<u>(985)</u>	-	(800)	<u>(3.13)</u>	<u>(8540)</u>	<u>(5840)</u>		(1.00E+00)	(1.00E-05)
Soil Satura	tion Cor	ncentration (	C-sat)*		-	-		-		-	-		-	-
State Back	ground	Threshold V	alue	8^			-	-	-	-	-		-	-

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

NM = Not Measured

Bold & Asteric \* = C-sat Exceedance

NS = Not Sampled

(ppm) = parts per million

PID = Photoionization Detector

- No Exceedences

ND = Not Detected

A.1 Groundwater Analytical Table (Geoprobe) 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

Sample		1		Ethyl		Naph-	1	Trimethyl-	Xylene
iD	Date	GRO	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-11-1	07/31/13	NS	ND	ND	ND	ND	ND	ND	ND
MW-11-2	07/31/13	NS	ND	ND	ND	ND	ND '	ND	ND
MW-11-3	07/31/13	NS	ND	ND	ND	ND	ND	ND	ND
G-4-W	11/28/16	NS	7.4	1290	<2.45	303	460	859	1529
G-5-W	11/28/16	NS	380	222	<4.9	102	112	151	176.9
TW-1	12/02/16	NS	<0.46	<0.73	<0.49	<2.6	< 0.39	1.04-1.87	<2.06
TW-2	12/02/16	NS	<0.46	<0.73	<0.49	<2.6	< 0.39	<1.51	< 2.06
TW-3	12/02/16	NS	<0.46	<0.73	<0.49	<2.6	< 0.39	<1.51	< 2.06
TW-6	12/02/16	NS	9.4	3.9	<0.49	<2.6	1.65	5.93	1.51-2.91
TW-7	12/02/16	NS	<0.46	<0.73	< 0.49	<2.6	< 0.39	<1.51	<2.06
ENFORCE MENT STANDAR	RD ES = Bold	-	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMI	T PAL = Italics	-	0.5	140	12	10	160	96	400

NS = Not Sampled

(ppb) = parts per billion GRO = Gasoline Range Organics

(Geoprobe - Other VOC's)

Sampie		2-	cis-1,2 Dich-	trans-1,2 Dich-	Vinyl	Tetrachlo-	Trichloro-
ID	Date	Butanone	loroethene	loroethene	Chloride	roethene	ethene
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
MW-11-1	07/31/13	4.41	11	0.66	4.6	7.4	289
MW-11-2	07/31/13	<13.5	19.4	<1.9	1.5	21.8	383
MW-11-3	07/31/13	<13.5	19.4	<1.9	1.5	21.8	383
ENFORCE MENT STANDAR	RD ES = Bold	460	70	100	0.20	5	5
PREVENTIVE ACTION LIMI	T PAL = Italics	90	7	20	0.02	0.5	0.5

NS = Not Sampled

(ppb) = parts per billion

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

#### (Geoprobe – Metals)

Sample ID	Date	Arsenic (ppb)	Barium (ppb)	Chromium (ppb)	Lead (ppb)
MW-11-1	07/31/13	<4.2	161	<1.4	3.2 "J"
MW-11-2	07/31/13	8.3 "J"	125	<1.4	<2.7
MW-11-3	07/31/13	<4.2	89.6	3.7 "J"	<2.7
ENFORCE MENT STANDA	RD ES = Bold	10	2000.00	100	15
PREVENTIVE ACTION LIMI	T PAL = Italics	1	400.00	10	1.5

NS = Not Sampled

(ppb) = parts per billion

"J" Flag; Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

#### A.1 Groundwater Analytical Table

105 E. Main St. Property - WI DOT BRRTS 03-71-562271

#### Well MW-1

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PVC Elevation =

957.84 (feet) (MSL)

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	Water	Depth to water	1	· · · · · ·	Ethyl	(	Naph-		Trimethyl-	Xylene	n-Butly-	1,1 Dich-	cis-1,2 Dich-	trans-1,2 Dich-	Isopropyl-	p-Isopropyl-	n-Propyl-	Tetrachlo-	Trichloro-
	Elevation	from top of PVC	Lead	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	benzene	loroethene	loroethene	loroethene	benzene	toluene	benzene	roethene	ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
02/15/17	951.32	6.52	2.0	<0.17	33	<0.82	159	23.4	239	310	12.90	<0.46	37	< 0.35	9.3	2.06	18	17.3	470
05/15/17	951.40	6.44	<4.5	<1.7	52	<8.2	124	7.4	101	86.8	10.4	<4.6	22.8	<3.5	7.3	<2.8	17.9	13.4	450
ENFORCE M	ENT STAND/	ARD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	ACTION LIN	MIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

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(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### Well MW-2

PVC Elevation = 953.18 (feet)

	Water	Depth to water			Ethyl		Naph-		Trimethyl-	Xylene	n-Butly-	1,1 Dich-	cis-1,2 Dich-	trans-1,2 Dich-	Isopropyl-	p-lsopropyl-	n-Propyl-	Tetrachlo-	Trichloro-
	Elevation	from top of PVC	Lead	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	benzene	loroethene	loroethene	loroethene	benzene	toluene	benzene	roethene	ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
02/15/17	948.10	5.08	<0.8	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	< 0.34	< 0.46	1.41	< 0.35	<0.29	<0.28	<0.19	<0.48	33
05/15/17	948.40	4.78	<4.5	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	< 0.34	< 0.46	2.83	<0.35	<0.29	<0.28	<0.19	<0.48	24.4
ENFORCE ME	ENT STANDA	RD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	ACTION LIN	AIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### Well MW-3

PVC Elevation =

#### 953.03 (feet) (MSL)

(MSL)

	Water	Depth to water			Ethyl		Naph-		Trimethyl-	Xylene	n-Butly-	1,1 Dich-	cis-1,2 Dich-	trans-1,2 Dich-	Isopropyl-	p-lsopropyl-	n-Propyl-	Tetrachlo-	Trichloro-
	Elevation	from top of PVC	Lead	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	benzene	loroethene	loroethene	loroethene	benzene	toluene	benzene	roethene	ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
02/15/17	948.01	5.02	<0.8	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	< 0.34	< 0.46	0.76	< 0.35	<0.29	<0.28	<0.19	<0.48	10.1
05/15/17	948.35	4.68	<4.5	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	< 0.34	<0.46	0.59	<0.35	<0.29	<0.28	<0.19	<0.48	7.2
ENFORCE M	ENT STANDA	ARD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	ACTION LIN	AIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### Well MW-4

PVC Elevation =	952.72	(feet)	(MSL)
		()	(=_/

	Water	Depth to water			Ethyl		Naph-		Trimethyl-	Xylene	n-Butly-	1,1 Dich-	cis-1,2 Dich-	trans-1,2 Dich-	Isopropyl-	p-Isopropyl-	n-Propyl-	Tetrachlo-	Trichloro-
	Elevation	from top of PVC	Lead	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	benzene	loroethene	loroethene	loroethene	benzene	toluene	benzene	roethene	ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
02/15/17	947.90	4.82	<0.8	<0.17	<0.2	6.5	<2.17	<0.67	<2.05	<1.95	< 0.34	<0.46	<0.41	<0.35	<0.29	<0.28	<0.19	<0.48	10.5
05/15/17	948.30	4.42	<4.5	<0.17	<0.2	6.1	<2.17	<0.67	<2.05	<1.95	< 0.34	<0.46	<0.41	< 0.35	<0.29	<0.28	<0.19	<0.48	11.6
ENFORCE M	ENT STANDA	ARD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	EACTION LIN	AIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### A.1 Groundwater Analytical Table 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

Well TRC-11-1 PVC Elevation =

955.86 (feet)

	Water Elevation	Depth to water from top of PVC	Lead	Benzene	Ethyl Benzene	MTBE	Naph- thalene	Toluene	Trimethyl- benzenes	Xylene (Total)	n-Butly- benzene	1,1 Dich- Ioroethene	cis-1,2 Dich- loroethene	trans-1,2 Dich- loroethene	lsopropyl- benzene	p-lsopropyl- toluene	n-Propyl- benzene	Tetrachio-	Trichloro- ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
09/22/14	NM	NM	<3.0	35.8	97.9	<0.44	23.3	13.7	26.1	19.2-20.4	6.50	1.00	137	1.3	11.8	1.5	22.4	4	130
02/15/17	950.82	5.04	<0.8	13.4	35	<0.82	<2.17	4.4	3.9-4.81	2.51	4.5	< 0.46	91	18.1	7.1	0.78	15.2	<0.48	15.6
05/15/17	951.55	4.31	<4.5	25.2	104	<0.82	4.6	20.3	21.9	8.83	5.3	0.82	104	15.4	11.8	0.36	30	0.6	27.3
ENFORCE M	ENT STANDA	ARD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	E ACTION LIN	MIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### Well TRC-11-2

PVC Elevation =

#### 958.63 (feet) (MSL)

(MSL)

	Water	Depth to water			Ethyl		Naph-		Trimethyl-	Xylene	n-Butly-	1,1 Dich-	cis-1,2 Dich-	trans-1,2 Dich-	lsopropyl-	p-Isopropyi-	n-Propyl-	Tetrachlo-	Trichloro-
	Elevation	from top of PVC	Lead	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	benzene	loroethene	loroethene	loroethene	benzene	toluene	benzene	roethene	ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
09/22/14	NM	NM	<3.0	<5.0	<5.0	<1.7	<25.0	<5.0	<10.0	<15.0	<5.0	<4.1	<2.6	<2.6	<1.4	<5.0	<5.0	<5.0	1030
02/15/17	952.52	6.11	<0.8	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	< 0.34	< 0.46	<0.41	<0.35	<0.29	<0.28	<0.19	2.68	1070
05/15/17	952.42	6.21	<4.5	<3.4	<4	<16.4	<43.4	<13.4	<41	<39	<6.8	<9.2	<8.2	<7	<5.8	<5.6	<3.8	<9.6	1190
ENFORCE ME	ENT STANDA	RD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	ACTION LIN	AIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### Well TRC-11-3

PVC	Elevation =	
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961.69 (feet) (MSL)

	Water	Depth to water			Ethyl		Naph-		Trimethyl-	Xylene	n-Butly-	1,1 Dich-	cis-1,2 Dich-	trans-1,2 Dich-	Isopropyl-	p-lsopropyl-	n-Propyl-	Tetrachlo-	Trichloro-
	Elevation	from top of PVC	Lead	Benzene	Benzene	MTBE	thalene	Toluene	benzenes	(Total)	benzene	loroethene	loroethene	loroethene	benzene	toluene	benzene	roethene	ethene
Date	(in feet msl)	(in feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
09/22/14	NM	NM	<3.0	<0.50	<0.50	<0.17	<2.5	<0.50	<1.00	<1.50	<0.050	<0.41	<0.26	<0.26	<0.14	<0.50	<0.50	<0.50	64.8
02/15/17	954.62	7.07	<0.8	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	<0.34	<0.46	0.63	<0.35	<0.29	<0.28	<0.19	<0.48	8.8
05/15/17	956.04	5.65	<4.5	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95	<0.34	<0.46	<0.41	<0.35	<0.29	<0.28	<0.19	<0.48	8.0
	_																		
ENFORCE M	ENT STANDA	ARD ES = Bold	15	5	700	60	100	800	480	2000		7	70	100				5	5
PREVENTIVE	ACTION LIN	AIT PAL = Italics	1.5	0.5	140	12	10	160	96	400		0.70	7	20				0.5	0.5

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

# A.1 Groundwater Analytical Table 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

Well Sampling Conducted on:

02/15/17 02/15/17 02/15/17 02/15/17 02/15/17 02/15/17 02/15/17

								STANDARD = ES -	PREVENTIVE ACTION
VOC's								Bold	LIMIT = PAL - Italics
Woll Name	BB10/ 4	MIN/ 2	MM/ 2	MAIN/ A	TPC 11 1	TPC 11 2	TPC 11 3		
Wen Name	IVI V V - 1	IVI VV-Z	INI NY-S	101 99-44	IRC-II-I	186-11-2	180-11-5		
Lead/ppb	2.0	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	15	1.5
Develope to a b	< 0.17	- 0.17	< 0.17	< 0.17	43.4	< 0.17	- 0.17	E	0.5
Benzene/ppb	< 0.17	< 0.17	< 0.17	< 0.17	13.4	< 0.17	< 0.17	<u> </u>	0.5
Bromobenzene/ppb	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	0.0	
Bromodicnioromethane/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	0.6	0.00
Bromotorm/ppb	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	4.4	0.44
tert-Butylbenzene/ppb	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39		==
sec-Butylbenzene/ppb	3.3	< 0.24	< 0.24	< 0.24	2.54	< 0.24	< 0.24		==
n-Butylbenzene/ppb	12.9	< 0.34	< 0.34	< 0.34	4.5	< 0.34	< 0.34		==
Carbon Tetrachioride/ppb	< 0.21	< 0.21	< 0.21	< 0.21 < 0.07	< 0.21	< 0.21	< 0.21		0.5
Chlorobenzene/ppb	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27		
Chloroethane/ppb	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	400	00
Chlorotorm/ppb	< 0.96	< 0.96	< 0.96	< 0.96	1.56 J	< 0.96	< 0.96	b 20	0.0
Chloromethane/ppb	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3		3
2-Chlorotoluene/ppb	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36		==
4-Chlorotoluene/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35		==
1,2-Dibromo-3-chloropropane/ppb	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	0.2	0.02
Dibromochloromethane/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	60	
1,4-Dichlorobenzene/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	75	15
1,3-Dichlorobenzene/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	000	120
1,2-Dichlorobenzene/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	1000	00
d 2 Dichlorodhuoromethane/ppb	< 0.38	< 0.36	< 0.38	< 0.38	< 0.30	< 0.30	< 0.30	1000	200
1,2-Dichloroethane/ppb	< 0.43	< 0.45	< 0.45	< 0.45	< 0.45	< 0.40	< 0.40	950	0.0
1,1-Dichlerethensight	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	830	0.7
nic 1.2 Dichloroethene/ppb	< 0.46 37	1 41	0.40	< 0.40	< 0.40 Q1	< 0.40	0.40	70	0.7
trans 1.2 Dichlorosthono/nnh	< 0.35	< 0.35	< 0.35	< 0.41	18.1	< 0.41	< 0.35	100	20
1.2 Dichloropropago/ppb	< 0.39	< 0.30	< 0.30	< 0.00	< 0.39	< 0.39	< 0.30	5	0.5
2.2-Dichloropropane/ppb	< 0.33	< 0.33	< 0.33	< 0.00	< 0.47	< 0.33	< 0.05		
1 3-Dichloropropane/ppb	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	==	==
Di-isopropyl ether/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
EDB (1.2-Dibromoethane)/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	0.05	0.005
Ethylbenzene/ppb	33	< 0.2	< 0.2	< 0.2	35	< 0.2	< 0.2	700	140
Hexachlorobutadiene/ppb	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	==	==
Isopropylbenzene/ppb	9.3	< 0.29	< 0.29	< 0.29	7.1	< 0.29	< 0.29	==	==
p-lsopropyltoluene/ppb	2.06	< 0.28	< 0.28	< 0.28	0.78 "J"	< 0.28	< 0.28	==	==
Methylene chloride/ppb	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	5	0.5
Methyl tert-butyl ether (MTBE)/ppb	< 0.82	< 0.82	< 0.82	6.5	< 0.82	< 0.82	< 0.82	60	12
Naphthalene/ppb	159	< 2.17	< 2.17	< 2.17	< 2.17	< 2.17	< 2.17	100	10
n-Propylbenzene/ppb	18	< 0.19	< 0.19	< 0.19	15.2	< 0.19	< 0.19	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	0.2	0.02
1,1,1,2-Tetrachloroethane/ppb	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	70	7
Tetrachloroethene (PCE)/ppb	17.3	< 0.48	< 0.48	< 0.48	< 0.48	2.68	< 0.48	5	0.5
Toluene/ppb	23.4	< 0.67	< 0.67	< 0.67	4.4	< 0.67	< 0.67	800	160
1,2,4-Trichlorobenzene/ppb	< 1.29	< 1.29	< 1.29	< 1.29	< 1.29	< 1.29	< 1.29	70	14
1,2,3-Trichlorobenzene/ppb	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	==	==
1,1,1-Trichloroethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	200	40
1,1,2-Trichloroethane/ppb	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	5	0.5
Trichloroethene (TCE)/ppb	470	33	10.1	10.5	15.6	1070	8.8	5	0.5
richiorofiluoromethane/ppb	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	==	==
1,2,4-1 rimetnylbenzene/ppb	/00	S 1.14	< 1.14 < 0.01	< 1.14 < 0.01	3.9	< 1.14	< 1.14 Z 0.04	Total TMD's 400	Total TMP's 06
T,S,S-Trimetnyibenzene/ppb	/J E 4	< 0.91	< 0.91	< 0.91 Z 0.10	< 0.91	< 0.91	< 0.91 < 0.10	0.2	0.02
wanyi Ghionde/ppb	J. I 188	< 1.56	< 1.56	< 1.5F	1.8 " "	< 0.19 < 1.56	~ 0.19	U.2	0.02
n ap-sylene/ppb	100	< 0.30	< 0.20	< 0.00	1.0 J 0.71 "!"	< 0.30	< 0.20	Total Yulence 2000	Total Xylenes 400
o-vyterie/bbp	122	~ 0.39	~ 0.59	~ 0.59	0.11.3	~ 0.39	< 0.59	Total Ayleftes 2000	i utai Ayielles 400

NS = Not Sampled, NM = Not Measured = = No Exceedences

(ppb) = parts per billion

(ppm) = parts per million "J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

# A.1 Groundwater Analytical Table 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

Well Sampling Conducted on:

05/15/17 05/15/17 05/15/17 05/15/17 05/15/17 05/15/17

VOC's								ENFORCE MENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
Well Name	MW-1	MW-2	MW-3	MW-4	TRC-11-1	TRC-11-2	TRC-11-3		
Lead/ppb	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	15	1.5
Benzene/ppb	< 1.7	< 0.17	< 0.17	< 0.17	25.2	< 3.4	< 0.17	5	0.5
Bromobenzene/ppb	< 4.3	< 0.43	< 0.43	< 0.43	< 0.43	< 8.6	< 0.43	==	==
Bromodichloromethane/ppb	< 3.1	< 0.31	< 0.31	< 0.31	< 0.31	< 6.2	< 0.31	0.6	0.06
Bromoform/ppb	< 4.9	< 0.49	< 0.49	< 0.49	< 0.49	< 9.8	< 0.49	4.4	0.44
tert-Butylbenzene/ppb	< 3.9	< 0.39	< 0.39	< 0.39	< 0.39	< 7.8	< 0.39	==	==
sec-Butylbenzene/ppb	2.4 "J"	< 0.24	< 0.24	< 0.24	3.2	< 4.8	< 0.24	==	**
n-Butylbenzene/ppb	10.4 "J"	< 0.34	< 0.34	< 0.34	5.3	< 6.8	< 0.34	==	==
Carbon Tetrachloride/ppb	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 4.2	< 0.21	5	0.5
Chlorobenzene/ppb	< 2.7	< 0.27	< 0.27	< 0.27	< 0.27	< 5.4	< 0.27	==	==
Chloroform/ppb	< 0.6	< 0.0	< 0.0	< 0.0	< 0.0	< 10.2	< 0.5	400	00
Chloromethane/neb	< 13	< 1.30	< 1.30	< 13	< 1.90	~ 19.2	< 0.90	20	0.0
2-Chlorotoluene/ppb	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 7.2	< 0.36		==
4-Chlorotoluene/ppb	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 7	< 0.35	==	==
1.2-Dibromo-3-chloropropane/ppb	< 18.8	< 1.88	< 1.88	< 1.88	< 1.88	< 37.6	< 1.88	0.2	0.02
Dibromochloromethane/ppb	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 9	< 0.45	60	6
1.4-Dichlorobenzene/ppb	< 4.2	< 0.42	< 0.42	< 0.42	< 0.42	< 8.4	< 0.42	75	15
1,3-Dichlorobenzene/ppb	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 9	< 0.45	600	120
1,2-Dichlorobenzene/ppb	< 3.4	< 0.34	< 0.34	< 0.34	< 0.34	< 6.8	< 0.34	600	60
Dichlorodifluoromethane/ppb	< 3.8	< 0.38	< 0.38	< 0.38	< 0.38	< 7.6	< 0.38	1000	200
1,2-Dichloroethane/ppb	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 9	< 0.45	5	0.5
1,1-Dichloroethane/ppb	< 4.2	< 0.42	< 0.42	< 0.42	< 0.42	< 8.4	< 0.42	850	85
1,1-Dichloroethene/ppb	< 4.6	< 0.46	< 0.46	< 0.46	0.82 "J"	< 9.2	< 0.46	7	0.7
cis-1,2-Dichloroethene/ppb	22.8	2.83	0.59 "J"	< 0.41	104	< 8.2	< 0.41	70	7
trans-1,2-Dichloroethene/ppb	< 3.5	< 0.35	< 0.35	< 0.35	15.4	< 7	< 0.35	100	20
1,2-Dichloropropane/ppb	< 3.9	< 0.39	< 0.39	< 0.39	0.74 "J"	< 7.8	< 0.39	5	0.5
1,3-Dichloropropane/ppb	< 4.9	< 0.49	< 0.49	< 0.49	< 0.49	< 9.8	< 0.49		==
trans-1,3-Dichloropropene	< 4.2	< 0.42	< 0.42	< 0.42	< 0.42	< 8.4	< 0.42	==	==
cis-1,3-Dichloropropene	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 4.2	< 0.21	==	==
EDB (1.2 Dibromoothane)/nnb	< 2.0	< 0.20	< 0.26	< 0.20	< 0.26	< 5.2	< 0.20	0.05	0.005
Ebb (1,2-Dibioindemane//ppb	52	< 0.34	< 0.24	< 0.34	<ul> <li>0.34</li> <li>104</li> </ul>	< 0.0	< 0.24	700	140
Hexachlorobutadiene/nnh	< 14 7	< 1.47	< 1.47	< 1 47	< 1.47	< 29.4	< 1.47		140
Isopropylbenzene/opb	7.3 ".1"	< 0.29	< 0.29	< 0.29	11.47	< 5.8	< 0.29		==
p-isopropyltoluene/ppb	< 2.8	< 0.28	< 0.28	< 0.28	0.36 ".J"	< 5.6	< 0.28	==	==
Methylene chloride/ppb	< 9.4	< 0.94	< 0.94	< 0.94	< 0.94	< 18.8	< 0.94	5	0.5
Methyl tert-butyl ether (MTBE)/ppb	< 8.2	< 0.82	< 0.82	6.1	< 0.82	< 16.4	< 0.82	60	12
Naphthalene/ppb	124	< 2.17	< 2.17	< 2.17	4.6 "J"	< 43.4	< 2.17	100	10
n-Propylbenzene/ppb	17.9	< 0.19	< 0.19	< 0.19	30	< 3.8	< 0.19	==	==
1,1,2,2-Tetrachloroethane/ppb	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 13.8	< 0.69	0.2	0.02
1,1,1,2-Tetrachloroethane/ppb	< 4.7	< 0.47	< 0.47	< 0.47	< 0.47	< 9.4	< 0.47	70	7
Tetrachloroethene (PCE)/ppb	13.4 "J"	< 0.48	< 0.48	< 0.48	0.60 "J"	< 9.6	< 0.48	5	0.5
Toluene/ppb	7.4 "J"	< 0.67	< 0.67	< 0.67	20.3	< 13.4	< 0.67	800	160
1,2,4-Trichlorobenzene/ppb	< 12.9	< 1.29	< 1.29	< 1.29	< 1.29	< 25.8	< 1.29	70	14
1,2,3-Trichlorobenzene/ppb	< 8.3	< 0.83	< 0.83	< 0.83	< 0.83	< 16.6	< 0.83	==	==
1,1,1,1-1 richloroethane/ppp	< 3.5 - 6 E	< U.35	< 0.35 < 0.65	< 0.35	< 0.35	< 1	< U.35	∠00 F	40
Trichlereethene (TCE)/ppb	C.0 >	< 0.00 A 70	< U.00 7 2	< 0.00 11 E	< 0.05 27 2	< 13 1100	< 0.05	5	0.5
Trichlorofluoromathers/ppb	400	21.4 2064	1.2	11.0	21.3	1190	0 GA		0.0
1 2 4-Trimethylbenzene/nnh	< 0.4 44	< 1 14	< 1 14	< 1.14	∖0.04 ∦າ	< 22.0	< 1 1/		1
1.3.5-Trimethylbenzene/ppb	57	< 0.91	< 0.91	< 0.91	17 7	< 18.2	< 0.91	Total TMB's 480	Total TMB's 96
Vinvl Chloride/opb	3 ".!"	< 0.19	< 0.19	< 0.19	0.29 ".1"	< 3.8	< 0.19	0.2	0.02
m&p-Xvlene/ppb	78	< 1.56	< 1.56	< 1.56	7.8	< 31.2	< 1.56	•	
o-Xylene/ppb	8.8 "J"	< 0.39	< 0.39	< 0.39	1.03 "J"	< 7.8	< 0.39	Total Xylenes 2000	Total Xylenes 400

NS = Not Sampled, NM = Not Measured

= = No Exceedences

(ppb) = parts per billion (ppm) = parts per million "J" Flag: Analyte detected between LOD and LOQ LOD Limit of DetectionLOQ Limit of Quantitation

#### A.1 Groundwater Analytical Table 105 E: Main St. Property - WI DOT BRRTS 03-71-562271 (Metals)

### Well TRC-11-1

	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
	Total	Total	Total	Total	Total	Total	Total	Total
Date	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
09/22/14	8.30	108	< 0.60	<2.1	<3.0	<0.10	<6.7	<2.7
ENFORCE MENT STANDARD ES = Bold	10	2000	5	100	15	2	50	50
PREVENTIVE ACTION LIMIT PAL = Italics	1	400	0.5	10	1.5	0.2	10	10

(ppb) = parts per billion

ns = not sampled

nm = not measured Note: Elevations are presented in feet mean sea level (msl).

#### Well TRC-11-2

	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
	Total	Total	Total	Total	Total	Total	Total	Total
Date	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
09/22/14	<7.2	52.10	<0.60	<2.1	<3.0	<0.10	<6.7	<2.7
			1					
ENFORCE MENT STANDARD ES = Bold	10	2000	5	100	15	2	50	50
PREVENTIVE ACTION LIMIT PAL = Italics	1	400	0.5	10	1.5	0.2	10	10

(ppb) = parts per billion

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

#### Well TRC-11-3

	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
1	Total	Total	Total	Total	Total	Total	Total	Total
Date	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
09/22/14	<7.2	116	<0.60	<2.1	<3.0	<0.10	<6.7	<2.7
ENFORCE MENT STANDARD ES = Bold	10	2000	5	100	15	2	50	50
PREVENTIVE ACTION LIMIT PAL = Italics	1	400	0.5	10	1.5	0.2	10	10

(ppb) = parts per billion

ns = not sampled

nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

## A.6 Water Level Elevations 105 E. Main St. Property – WI DOT BRRTS 03-71-562271 Winneconne, Wisconsin

	MW-1	MW-2	MW-3	MW-4	TRC-11-1	TRC-11-2	TRC-11-3
Ground Surface (feet msl)	958.22	953.59	953.41	953.17	956.38	959.01	962.12
PVC top (feet msl)	957.84	953.18	953.03	952.72	955.86	958.63	961.69
Well Depth (feet)	15.0	13.0	13.0	13.0	17.0	18.0	16.0
Top of screen (feet msl)	953.22	950.59	950.41	950.17	949.38	951.01	956.12
Bottom of screen (feet msl)	943.22	940.59	940.41	940.17	939.38	941.01	946.12
Depth to Water From Top of P	VC (feet)						
02/15/17	6.52	5.08	5.02	4.82	5.04	6.11	7.07
05/15/17	6.44	4.78	4.68	4.42	4.31	6.21	5.65
Depth to Water From Ground 3 02/15/17 05/15/17	<b>Surface (1</b> 6.90 6.82	f <b>eet)</b> 5.49 5.19	5.40 5.06	5.27 4.87	5.56 4.83	6.49 6.59	7.50 6.08
Groundwater Elevation (feet n 02/15/17	1 <b>sl)</b> 951 32	948 10	948 01	947 90	950 82	952 52	954 62

951.40 948.40 948.35 948.30

951.55

952.42

956.04

CNL = Could Not Locate

05/15/17

A = Abandoned and removed during soil excavation project

NI = Not Installed

•

.

#### A.7 Other Groundwater NA Indicator Results 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

#### Well MW-1

	Dissolved					Nitrate +	Total	Dissolved	Man-
Date	Oxygen	pН	ORP	Temp	Specific	Nitrite	Sulfate	Iron	ganese
	(ppm)			(C)	Conductance	(ppm)	(ppm)	(ppm)	(ppb)
02/15/17	0.24	7	285	7.2	830	0.32	44.7	< 0.03	684
05/15/17	0.19	6.82	275	12.4	731	NS	NS	NS	NS
ENFORCE N	IENT STANE	3 – Bold	10	-	-	300			
PREVENTIV	PREVENTIVE ACTION LIMIT = PAL - Italics							-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured ORP = Oxidation Reduction Potential Note: Elevations are presented in feet mean sea level (msl).

#### Well MW-2

	Dissolved					Nitrate +	Total	Dissolved	Man-
Date	Oxygen	pН	ORP	Temp	Specific	Nitrite	Sulfate	Iron	ganese
	(ppm)			(C)	Conductance	(ppm)	(ppm)	(ppm)	(ppb)
02/15/17	1.35	7.13	253	8.8	2102	0.31	65.3	< 0.03	224
05/15/17	1.88	7.83	212	11.3	999	NS	NS	NS	NS
ENFORCE N	IENT STAND	DARD = E	6 – Bold			10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

#### Well MW-3

	Dissolved				1	Nitrate +	Total	Dissolved	Man-
Date	Oxygen	рΗ	ORP	Temp	Specific	Nitrite	Sulfate	Iron	ganese
	(ppm)			(C)	Conductance	(ppm)	(ppm)	(ppm)	(ppb)
02/15/17	1.26	7.06	268	9.4	832	0.72	61.1	<0.03	51.9
05/15/17	3.41	7.72	256	11.1	774	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES – Bold</b>							-	-	300
PREVENTIV	2	-	-	60					

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

#### Well MW-4

	Dissolved					Nitrate +	Total	Dissolved	Man-
Date	Oxygen	pН	ORP	Temp	Specific	Nitrite	Sulfate	Iron	ganese
	(ppm)			(C)	Conductance	(ppm)	(ppm)	(ppm)	(ppb)
02/15/17	0.64	6.89	273	8.4	2775	3.87	67.5	< 0.03	200
05/15/17	0.35	7.02	259	10.6	2154	NS	NS	NS	NS
ENFORCE N	IENT STAND	)ARD = <b>E</b> \$	S – Bold			10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured ORP = Oxidation Reduction Potential Note: Elevations are presented in feet mean sea level (msl).

#### A.7 Other Groundwater NA Indicator Results 105 E. Main St. Property – WI DOT BRRTS 03-71-562271

#### Well TRC-11-1

.

Date	Dissolved Oxygen (ppm)	pН	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man- ganese (ppb)
02/15/17	0.55	7.33	236	7.9	985	<0.17	16.6	< 0.03	258
05/15/17	0.22	7.36	161	12.0	807	NS	NS	NS	NS
ENFORCE N	MENT STAND	ARD = E	L S – Bold	L	<u> </u>	10	-		300
DEVENTIN	EACTIONIL	MIT - DA	1 Italiaa			2			60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured ORP = Oxidation Reduction Potential Note: Elevations are presented in feet mean sea level (msl).

#### Well TRC-11-2

	Dissolved					Nitrate +	Total	Dissolved	Man-
Date	Oxygen	pН	ORP	Temp	Specific	Nitrite	Sulfate	Iron	ganese
	(ppm)			(C)	Conductance	(ppm)	(ppm)	(ppm)	(ppb)
02/15/17	1.73	7.69	239	9.6	774	2.2	21.3	< 0.03	14.8
05/15/17	1.57	9.74	120	11.1	447	NS	NS	NS	NS
ENFORCE N	IENT STAND	ARD = E	S – Bold			10	-	-	300
PREVENTIV	PREVENTIVE ACTION LIMIT = PAL - Italics							-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured ORP = Oxidation Reduction Potential Note: Elevations are presented in feet mean sea level (msl).

#### Well TRC-11-3

	Dissolved					Nitrate +	Total	Dissolved	Man-
Date	Oxygen	рН	ORP	Temp	Specific	Nitrite	Sulfate	Iron	ganese
	(ppm)			( C)	Conductance	(ppm)	(ppm)	(ppm)	(ppb)
02/15/17	3.53	7.14	254	8.6	1250	1.09	58.3	< 0.03	26.1
05/15/17	2.82	7.25	171	10.8	975	NS	NS	NS	NS
ENFORCE N	MENT STAND	DARD = E	S – Bold			10	-	-	300
PREVENTIV	PREVENTIVE ACTION LIMIT = PAL - Italics							-	60

(ppb) = parts per billion (ppm) = parts per million ns = not sampled nm = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).
# Appendix C UST Disposal Documentation





N2570 Daytona Drive MERRILL, WI 54452 1-800-261-2803 715-539-2803 Fax 715-539-2681

Jay A. Schlueter CELL (715) 218-1001 Jay@pge-env.com





EXCAVATIONS



GEOPROBE SOIL BORING

# CERTIFICATE OF UNDERGROUND STORAGE TANK DISPOSAL

On January 17<sup>th</sup>, 2018 SGS Environmental Contracting LLC, completed the removal of (1) - Underground Storage Tank: (1) – 1,000 gallon Leaded Gas UST for:

WDOT Hwy 116 Construction Site 105 E Main St. Winneconne WI 54986

Sludge generated at the job site was barreled and left on site for others to handle.

Tank was taken to:

Schulz's Recycling Inc. W6059 Heldt St. Merrill WI 54452

Bobbie Jo Hoffman Office Manager

SGS Environmental Contracting LLC, N2570 Daytona Drive, Merrill, WI 54452 715.539.2803 Fax 715.539.2661 jay@sgs-env.com

# Appendix D UST Closure Checklist

TR-WM-140 (04/15) Formerly ERS-8951 (R. 07/13)

NAME TRADE & CONSINATION OF THE READ OF TH	Wisconsin Department of Agriculture, Trade and Consumer Protection Bureau of Weights and Measures, Permits and Licensing P.O. Box 7837 Madison, WI 53707-7837 (608) 224-4942									
	TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT									
CHECK ONE		ABOVEGROUND								
FOR PORTIONS O Complete One Form	FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX Complete One Form for Each System Service Event									
Part A – To be	completed by contractor performing re	pair or closure								
A. TYPE OF SERV Indicate portio	TYPE OF SERVICE I 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. IDENTIFICATIO	N (Please Print)									
1. Facility Name	116 Construction Oite	2. Owner Name								
WDOT- Hwy 116 Construction Site Wisconsin Department of Transportation										

Facility Street Address (not P.O. Box) 105 E Main St.		3. Contact Name Sharlene Te Beest	Job Wisconsin DOT	Title				
Municipality Winneconne		Mailing Address PO Box 7965 Room 451 Attn: S. Te Beest						
City X Village	Town of:	Post Office Madison WI 53707						
Zip Code	County	County	Telephone No. (include an	ea code)				
54986	Winnebego	Dane	(608) 266-1476					
4. Primary Service (	Contractor Section A above	Service Contractor Street Addre	ess					
SGS Environmental Contracting LLC		N2570 Daytona Dr.						
Service Contractor	Telephone No. (include area code)	Service Contractor City, State,	Service Contractor City, State, Zip Code					
(715) 53	39-2803	Merrill WI 54452						

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

а	b	C	d	е	f		g	h	
Tank ID #	Type of	Tank Material of	Piping Material of	Tank Capacity Contents <sup>2</sup>		Release - System Integrity Compromised (e.g. holes,		If "Yes" to "g", Then Spec Relea	cify Source & Cause of ase <sup>5</sup>
	Closure	Construction	Construction	(gallons)		cracks, loos e	se connection, tc)?	Source of Release <sup>3</sup>	Cause of Release <sup>4</sup>
	P	Steel	inkagan	1000	La	ØY		T	C
						ΩY			
						ΠY			
						ΩY			
						ΩY			
						ΠY	□ 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):

Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown
 Cause of release: S = spill, O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown
 Has release been reported to the Department of Natural Resources? Yes No

# Part A Distribution: DATCP DNR Inspector Contractor Owner

<ul> <li>D. CLOSURES (Check applicable box at right in response to all statements in section D)</li> <li>Written notification was provided to the local agent 5 days in advance of closure date.</li> <li>All local permits were obtained before beginning closure.</li> <li>I Y □ N □ NA</li> <li>I UST Form TR-WM-137 or □ AST Form TR-WM-118 filed by owner with the DATCP indicating closure. Y</li> <li>NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EA CHECKLIST</li> </ul>		N 🗌 NA CHANGE-IN-SE	RVICE
D.1 TEMPORARILY OUT-OF-SERVICE	Remover	Inspector	
1. Product removed.	Verified	Verified	NA
a. Product lines drained into tank (or other container) and liquid removed, and			
b. All product removed to bottom of suction line. OR			<u>i 41</u>
c. All product removed to within 1" of bottom			
2 Fill pipe dauge pipe tank truck vapor receivery fittings, and vapor return lines conned			
3 All product lines at the islands or pumps loosted closwhare are remevied and connect.			<u>  <u> </u></u>
4. Dispensers/pumps left in place but looked and neuver discense ted			<u> </u>
5. Vent lines left open			<u> </u>
6 Inventory form filed indicating temperarily out of convice (TOC) closure			<u> </u>
D 2 ACLOSUPE BY REMOVAL OR IN REACE			
1 General Requirements			
<ul> <li>Product from piping drained into tank (or other centainer)</li> </ul>			
<ul> <li>b. Piping disconnected from tank and removed</li> </ul>			
<ul> <li>All liquid and residue removed from tenk using surplesion and from tenk using su</li></ul>			
d. All nump meters and subtion bases banded to tech will be in the start of pumps or hand pumps.			
<ul> <li>All pump motors and suction noses bonded to tank or otherwise grounded.</li> <li>Fill pipes groups pipes used to tank or otherwise grounded.</li> </ul>			
E. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.			
T. vent lines left connected until tanks purged.			
g. Tank openings temporarily plugged so vapors exit through vent.			
n. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.			
2. Specific Closure-by-Removal Requirements			
a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent			
movement.		2	
D. Tank cleaned before being removed from site.			
c. Tank labeled in 2" high letters after removal but before being moved from site.	Y N		
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.			
e. Site security is provided while the excavation is open.			
3. Specific Closure-In-Place Requirements <u>NOTE</u> : CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTM CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.	ENT OF AGRICU	LTURE, TRADE	AND
a. Tank properly cleaned to remove all sludge and residue.			i n
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.			
c. Vent line disconnected or removed.			1 77-
d. Inventory form filed by owner with the DATCP indicating closure in-place.			1 7 7
E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE			
Written notification was provided to the local agent 5 days in advance of service date.	DY DN	IT NA	
All local permits were obtained before beginning service.	<b>YN</b>	I NA	
Form TR-WM-137 or TR-WM-118 filed by owner with the DATCP indicating change-in-service.	DY DN	I 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 groun	nd.		
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.			
I nert gas using dry ice or liquid carbon dioxide.			
THE TANK MAY NOT BE ENTEDED IN THIS STATE MUTHOUT ODEOLAL FOR UPNENT	S MAY NOT FUN	CTION ACCURA	TELY.
Gas introduced through a single opening at a paint pear the better of the better of the better of the state of the second			
Gas introduced under low pressure not to exceed 5 pairs to reduce static electricity. One is the tank opposite the vent.			
Readings of 10% or less of the lower flormable range (LEL) or 0% evenes alterized by the formable range (LEL) or 0%			
Tank atmosphere monitored for flammable or combustible vener levels prior to and during the removing tank from ground.			
Calibrate combustible das indicator and/or ovviden meter prior to use. Drep tube removied prior to sheaking and cutting.	Contrans and the second	and at her t	
upper portion of tank.	ank space monit	ored at pottom, n	liddle and

G. REMOVER/CLEANER INFORMATION

tric t Gearge Remover/Cleaner Name (print)

TRC

401900

Remover/Cleaner Signature

Date Signed

7-18

Certification No. I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment

# H. INSPECTOR INFORMATION

Inspector Not

Inspector Name (print)

Inspector Signature

Inspector Cert #

LPO Agency #:

FDID # For Location Where Inspection Performed

Inspector Telephone Number

Date Signed

Distribution: DATCP DNR Inspector Contractor Owner

TR-WM-140 (10/17)) Formerly ERS-8951

I. TANK-SYSTEM SITE ASSESSMENT	(TSSA)	<b>,</b>	, , , , , , , , , , , , , , , , , , ,
SITE NAME - Note: SITE NAME and ad	dress MUST MATCH with Part A Section 1.		
WDOT - HWY 116 CON	STRUCTION SITE		
SITE ADDRESS (Not PO Box)		CITY TOWN VILLAG	E STATE ZIP
105 E. Main Street		Winneconne	WI 54986
To determine if a TSSA is required, FROM UNDERGROUND AND ABO	see ATCP 93 and section II part B of ASS VEGROUND STORAGE TANK SYSTEM	ESSMENT AND REPORTING OF S	SUSPECTED AND OBVIOUS RELEASES
If a TSSA is required, then follow the UNDERGROUND AND ABOVEGRO	procedures detailed in ASSESSMENT A DUND STORAGE TANK SYSTEMS	ND REPORTING OF SUSPECTED	AND OBVIOUS RELEASES FROM
1. Site Information			
a. Has there been a previously	documented release at this site?		
If yes, provide the DATCP #		or DNR BRRT's # 03-71-	562271
b. Number of active tanks at fac	ility prior to completion of current services	USTs 1	ASTs
(NOTE 1: Do not include previou	usly closed systems or system component	·s.)	
c. Excavation/trench dimension	s (in feet). (Photos must be provided.)	2220 ·	
EXCAVATION/TRENCH #	LENGTH		
1	10		0 0
Ł	12	TO	8
		1	
2. Visual Excavation/Trench Inspe	ection (Photos must be provided for "Y	es" responses, except item b.)	
Do any of the following conditions ex	ist in or about the excavation(s)?		
a Stained soils: Yes	No b Petroleum odor: Yes	No c Water In excavation/tra	anch: Ves No
d. Free product in the evenuation			
3 Geology/Hydrogeology	intericit. Thes into e. She	en or free product on water:	res Ino
5. Geology/Hydrogeology	7 6-1	C C	
a. Depth to groundwater	/ feet b. Indi	cate type of geology <sup>2</sup>	
4. Receptors			
a. Water supply well(s) within 25	0 feet of the facility? U Yes No	If yes, specify:	
b. Surface water(s) within 1000	teet of the facility? 📕 Yes 📋 No If y	es, specify: WOLL RIVE	r
5. Sampling			
a. Follow the procedures detaile ABOVEGROUND STORAGE	d in ASSESSMENT AND REPORTING O TANK SYSTEMS.	F SUSPECTED AND OBVIOUS RE	ELEASES FROM UNDERGROUND AND
		1.1	
<li>b. Complete Tables 1 and 2 as a</li>	appropriate. (Attach chain-of-custody and	laboratory analytical reports.)	
<ul> <li>b. Complete Tables 1 and 2 as a</li> <li>c. Attach a detailed map of site 1</li> </ul>	appropriate. (Attach chain-of-custody and features and sample locations.	laboratory analytical reports.)	

.

#### TR-WM-140 (10/17) Formerly ERS-8951

Sample ID #	Sample Location & Soil/Geologic Description	S	ample Colle	ction Meth	od	Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
SWN	sidewall, clay					5	<1	NA	NA
SWS	sidewall, clay					5	11	NA	NA
SWE	sidewall, clay					5	<1	NA	NA
SWW	sidewall, clay					5	<1	NA	NA
BE	base, clay					, 7	<1	NA	NA
BW	base, clay					7	1	NA	NA
							and the second se		

#### 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
SWN	<25	<25	<25	<25	<50	<75	<25
SWS	<25	<25	<25	<25	<50	<75	<25
SWE	<25	<25	<25	<25	<50	<75	<25
SWW	<25	<25	<25	<25	< 50	<75	<25
BE	<25	<25	<25	<25	<50	<75	<25
BW	<25	<25	<25	<25	<50	<75	<25
	and second						

#### K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

As a tank-system site assessor certified under Wis. Admin. Code section SPS 305.83, 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 ATCP 93.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter ATCP 93 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 168.26 (5). Each day of continued violation and each tank are treated as separate offenses.

Tom Perkins	Ton	-from	468293
TANK-SYSTEM SITE ASSESSOR NAME (PRINT):	TANK-SYSTEM S	SITE ASSESSOR SIGNATURE	CERTIFICATION NO.
(608)826-3672	2/7/2018	TRC Environmental	Corporation
TANK-SYSTEM SITE ASSESSOR TELEPHONE NUMBER	DATE SIGNED	COMPANY NAME	

This document can be made available in alternate formats to individuals with disabilities upon request.

# Appendix E UST Inventory Forms

wisconsin Department of Agriculture, Trade	e and Consumer Pro	otection	TDID#:	
Bureau of Weights and Measures	F	Reg Obj #:		
PO Box 7837 Madison, WI 53707-7837				
(608) 224-4942			Wis. Admin. Code	s §ATCP 93.140
UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZAI	RDOUS LIQUID S	TORAGE TA	NK REGIST	RATION
Personal information you provide may be used for purposes other than	n that for which it was origi	nally collected (s.	15.04(1)(m) Wis.	Stats.).
Underground tanks in Wisconsin that have stored or currently store petroleum or	r regulated substances mu	ist be registered.	A separate form i	s needed for each
tank. Send each completed form to the agency designated above. Have y	ou previously registered t	his tank by submit	tting a form?	Yes 🖾 No
If yes, are you correcting/updating in	information only?  Yes	□ No		
This registration applies to a tank status that is <i>(check one):</i>			1-	
In Use     Abandoned with Product (empty)     Abandon with Water	Ownership C	a with Inert Materia	us v owner name in blo	ck 2 – attach deed)
Abandoned with Product 🛛 Closed - Tank Removed	Temporarily C	Out of Service - Prov	vide Date:	,
Fire Dept. providing fire coverage where tank is located:	LLAGE 7012- Winneconne			
IDENTIFICATION (Please Print)				
1. TANK SITE NAME	COUNTY		PHONE	
WDOT- Hwy 116 Construction Site (6190-15-72)			) - () - () - () - () - () - () - () -	
105 F Main St.	Winneconne		WI	54986
2. TANK OWNER LEGAL NAME	COUNTY		PHONE: Check	CELL or ALAND
Wisconsin Department of Transportation	Winnebego		(608) 266 - 14	76
MAILING ADDRESS	CITY UVILI	AGE 🗌 TOWN C	DF: STA	TE ZIP
PO Box 7965 Room 451 Attn: S. TeBeest	Madison		WI	53707-7965
3. PROPERTY OWNER NAME (if different from Tank Owner Legal Name #2)	COUNTY (if differ	ent from County #2)		
PROPERTY OWNER ADDRESS (if different from Site Street Address #1)		AGE 🗌 TOWN C	DF: STA	TE ZIP
4. CLASS A NAME DOB		CERTIFICATION:	(Attach certificate)	
5. CLASS B NAME DOB		CERTIFICATION:	(Attach certificate)	
SITE ID: FACILITY ID #		CUSTOMER ID #		
SITE ID:     FACILITY ID #       Tank Capacity (gallons):     1000       Tank Age (age or date install	alled):	CUSTOMER ID #	Vehicle fueling:	Yes 🛛 No
SITE ID:     FACILITY ID #       Tank Capacity (gallons):     1000       LAND OWNER TYPE (check one)     Refer to back	alled):	CUSTOMER ID #	Vehicle fueling:	Yes 🛛 No
SITE ID:     FACILITY ID #       Tank Capacity (gallons):     1000     Tank Age (age or date install       LAND OWNER TYPE (check one)     Refer to back     Image: County       County     State     Image: Federal Leased     Image: Federal Owned       OCCURANCY TYPE (check one)     Refer to back     Image: County     Image: County	alled):	CUSTOMER ID #	Vehicle fueling:	Yes 🛛 No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: County       Image: County         OccupAncy Type (check one)       Refer to back       Image: County       Image: County       Image: County         OccupAncy Type (check one)       Refer to back       Image: County       I	alled):	CUSTOMER ID #	Vehicle fueling:	Yes 🛛 No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back         Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator	alled): Tribal Nation Mu tial School C Other (specify):	CUSTOMER ID #	Vehicle fueling:	Yes 🛛 No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: County       Image: County         OCCUPANCY TYPE (check one)       Refer to back       Image: County       Image: County         OCCUPANCY TYPE (check one)       Refer to back       Image: County       Image: County         Image: County       Image: County       Image: County       Image: County       Image: County         Image: County       Image: County       Image: County       Image: County       Image: County       Image: County         Image: County       Image: County       Image: County       Image: County       Image: County       Image: County         Image: County<	alled): Tribal Nation I Mu tial School I Other (specify):	CUSTOMER ID #	Vehicle fueling:	] Yes ⊠ No ☐ Private ☐ Yes ⊠ No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: County       Image: Check one)         OCCUPANCY TYPE (check one)       Refer to back       Image: Check one)       Refer to back         Image: Retail Fuel Sales       Image: Check one)       Refer to back       Image: Check one)       Refer to back         Image: Retail Fuel Sales       Image: Commercial       Image: Check one)       Resident         Image: Agricultural (crop or livestock production)       Image: Backup or Emergency Generator       TANK CONSTRUCTION:         Image: Bare Steel       Image: Coated Steel       Image: Steel - Fiberglass Reinforced Plastic Composition	alled): Tribal Nation Mu tial School Other (specify): ite	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? pill Containment?	Yes         No           Private           Yes         No           Yes         No           Yes         No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: County       State       Image: Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Image: County       Refer to back       Image: County       Refer to back         Image: Retail Fuel Sales       Image: County       Image: County       Image: County       Resident         Agricultural (crop or livestock production)       Image: Dackup or Emergency Generator       TANK CONSTRUCTION:       Image: County         Image: Bare Steel       Image: County       Image: Steel - Fiberglass Reinforced Plastic Composition       Image: County         Image: Fiberglass       Image: Unknown       Image: Other (specify):       Image: County	alled): Tribal Nation Mu tital School Other (specify): tite Lined (date):	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? pill Containment? ank Double Walled?	Yes ⊠ No Private Yes ⊠ No Yes ⊠ No Yes ⊠ No Yes ⊠ No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Image: County       Refer to back       Image: County       Resident         CCUPANCY TYPE (check one)       Refer to back       Image: County       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:         Mare Steel       Coated Steel       Steel – Fiberglass Reinforced Plastic Composi       Image: County         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current	alled): Tribal Nation Mu tital School Other (specify): tite Lined (date): N/A	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? oill Containment? ank Double Walled?	Yes ⊠ No □ Private □ Yes ⊠ No □ Yes ⊠ No □ Yes ⊠ No □ Yes ⊠ No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: County       Image: County       Image: County         OCCUPANCY TYPE (check one)       Refer to back       Image: County       Imag	alled): □ Tribal Nation □ Mu tital □ School □ □ Other (specify): itte .ined (date): ☑ N/A ial monitoring ⇔ Electronic [	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? oill Containment? ank Double Walled? ] Inventory control	Yes       No         Private         Yes       No         and tightness testing
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: Check one)       Refer to back         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Image: Check one)       Refer to back         Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator         TANK CONSTRUCTION:       State       Steel       Coated Steel       Steel       Coated Steel       L         Fiberglass       Unknown       Other (specify):       L       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitian         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R	alled): ☐ Tribal Nation ☐ Mu tial ☐ School ☐ ☐ Other (specify): ite Lined (date): ☑ N/A ial monitoring ⇔ Electronic [ Reconciliation (SIR) ☑ Unka	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? pill Containment? ank Double Walled? ] Inventory control	Yes     No       Private       Yes     No       Yes     No       Yes     No       Yes     No       Yes     No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: Check one)       Refer to back         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Image: Check one)       Refer to back         Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator         TANK CONSTRUCTION:       Steel       Steel       Coated Steel         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitian         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:         Base Steel       Conpart       Conpart	alled): ☐ Tribal Nation ☐ Mu tial ☐ School ☐ ☐ Other (specify): iite Lined (date): ☑ N/A ial monitoring ⇔ Electronic ☐ Reconciliation (SIR) ☑ Unku	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? pill Containment? ank Double Walled? ] Inventory control a	Yes     No       Private       Yes     No       Yes     No       Yes     No       Yes     No       Yes     No       Yes     No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Tank Age (age or date install         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator         TANK CONSTRUCTION:       Steel       Steel – Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitial         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:         Bare Steel       Coated Steel       Fiberglass       Gopper	alled): □ Tribal Nation □ Mu tital □ School □ □ Other (specify): ite Lined (date): ⊠ N/A ial monitoring ⇔ Electronic [ Reconciliation (SIR) ⊠ Unku ⊠ Unknown □ N/A ⊠ N/A	CUSTOMER ID #	Vehicle fueling: [ ] Other Government  pvernment Fleet verfill Protection? pill Containment? ank Double Walled? ] Inventory control	Yes     No       Private       Yes     No       Yes     No       Yes     No       Yes     No       Yes     No       Italitation     No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Tank Age (age or date install         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator         TANK CONSTRUCTION:       Bare Steel       Coated Steel       Steel – Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitial         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:         Bare Steel       Coated Steel       Fiberglass       Flexible       Copper         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with $\Rightarrow$ A. Pump auto shue	alled):  Tribal Nation □ Mu tital □ School □ Other (specify):  itte ined (date):  N/A ial monitoring ⇔ Electronic [ Reconciliation (SIR) ☑ Unkn	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? bill Containment? ank Double Walled? ] Inventory control	Yes     No       Private       Yes     No       Yes     No       Yes     No       Yes     No       and tightness testing
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: Control of Co	alled): □ Tribal Nation □ Mu tital □ School □ □ Other (specify): ite ined (date): ⊠ N/A ial monitoring ⇔ Electronic [ Reconciliation (SIR) ⊠ Unku ⊠ Unknown □ N/A ⊠ N/A utoff - ELLD □ B. Flow res alve at pump and inspectable	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? oill Containment? ank Double Walled? ] Inventory control	Yes       No         Private         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         and tightness testing
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Image: Control of Conterol of Control of Control of Conted Steel	alled): □ Tribal Nation □ Mu tial □ School □ □ Other (specify): ite ined (date): ⊠ N/A ial monitoring ⇔ Electronic [ Reconciliation (SIR) ⊠ Unku ∭ Unknown □ N/A ⊠ N/A utoff - ELLD □ B. Flow res alve at pump and inspectable □ No ⇔ Sump or cable ser	CUSTOMER ID #	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? oill Containment? ank Double Walled? ] Inventory control a [] Inventory control a [] Unknown ot needed if waste co o	Yes       No         Private         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         Ind tightness testing         il
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:       Steel       Coated Steel       Steel - Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitial         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:         Bare Steel       Coated Steel       Fiberglass       Impressed Current         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIP	alled): □ Tribal Nation □ Mu tial □ School □ □ Other (specify): ite Lined (date): ☑ N/A ial monitoring ⇔ Electronic [ Reconciliation (SIR) ☑ Unku ☑ Unknown □ N/A ☑ N/A utoff - ELLD □ B. Flow res alve at pump and inspectable □ No ⇔ Sump or cable ser □ N	CUSTOMER ID #           unicipal           Utility         Go           Utility         Go           Yes         No           Yes         No           Other:         No           trictor – MLLD         N           Isor         Yes         N	Vehicle fueling: [ ] Other Government overnment Fleet verfill Protection? pill Containment? ank Double Walled? ] Inventory control a [] Unknown ot needed if waste co o [] Unknown [] Unkno	Yes       No         Private         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         In       No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Tank Age (age or date install         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator         TANK CONSTRUCTION:       Bare Steel       Coated Steel       Steel – Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitial         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:         Bare Steel       Coated Steel       Fiberglass       Flexible       Copper         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with check value       A. Pump auto shu         Suction piping with check value at tank       Suction piping with check value       Suction pi	alled):  Tribal Nation □ Mu tital □ School □ Other (specify):  tite Lined (date):  N/A ial monitoring ⇔ Electronic □ Reconciliation (SIR) ☑ Unkn Unknown □ N/A	CUSTOMER ID #	Vehicle fueling: [ Other Government Overnment Fleet Verfill Protection? Oill Containment? ank Double Walled? Inventory control Unknown ot needed if waste co o	Yes       No         Private         Yes       No         Image: Diesel       Diesel
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Tank Age (age or date install         County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator         TANK CONSTRUCTION:       Bare Steel       Coated Steel       Steel - Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitial         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with \$\vee\$ A. Pump auto shu         Suction piping with check valve at tank       Suction piping with check valve at tank       Suction piping with check valve at tank         PIPING LEAK DETECTION METHOD:       Interstitial monitoring \$\vee\$ Electronic \$\vee\$ Yes       Sing         Tank CONTENTS       Current, or previous product (	alled):  Tribal Nation □ Mu  tital □ School □  Other (specify):  tite Lined (date):  N/A  Unknown □ N/A  Unknown □ N/A  Unknown □ N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A	CUSTOMER ID #	Vehicle fueling: [ ] Other Government povernment Fleet verfill Protection? poill Containment? ank Double Walled? ] Inventory control [] Unknown ot needed if waste co o [] Unknown ot needed if	Yes       No         Private         Yes       No         Image: Diesel       Diesel
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date instand the stand th	alled): Tribal Nation □ Mu tial □ School □ □ Other (specify): tite Lined (date): ⊠ N/A ial monitoring ⇔ Electronic □ Reconciliation (SIR) ⊠ Unkee W Unknown □ N/A ⊠ Unknown □ N/A ⊠ N/A utoff - ELLD □ B. Flow res alve at pump and inspectable No ⇔ Sump or cable ser No ⇔ Sump or cable ser Naded □ Unleaded rosene □ New Oil rface* □ Empty*	CUSTOMER ID #	Vehicle fueling:	Yes       No         Private         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         Image: State of the s
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back              Federal Leased        Federal Owned         OCCUPANCY TYPE (check one)       Refer to back            Federal Leased        Federal Owned         OCCUPANCY TYPE (check one)       Refer to back            Resident         Agricultural (crop or livestock production)        Backup or Emergency Generator               Resident         Agricultural (crop or livestock production)        Backup or Emergency Generator	alled):         □ Tribal Nation       □ Mu         tital       □ School         □ Other (specify):         itte         .ined (date):         ☑ N/A         ial monitoring ⇔ Electronic [Reconciliation (SIR)         ☑ Unknown       N/A         ☑ Unknown       N/A         ☑ N/A       □ N/A	CUSTOMER ID #	Vehicle fueling:  Vehicle fueling:  Vehicle fueling:  Verifil Protection? Verfill Protection? Verfill Protection? Verfill Protection? Verfill Protection? Unknown Ot needed if waste co O Verfill Ventory control if Unknown Ot needed if waste co O Verfill Ventory Unknown Ot needed if waste co O Verfill Ventory Unknown Ot needed if waste co O Verfill Ventory Unknown Ot needed if waste co O Verfill Ventory V	Yes       No         Private         Yes       No         In       Diesel         200°F       Unknown
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:         Ø Bare Steel       Coated Steel       Steel – Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitia         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:         Bare Steel       Coated Steel       Fiberglass       Flexible       Copper         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with \$\RIGHTRY A.Pump auto shu       Suction piping with check valve at tank       Suction piping with check	alled):  Tribal Nation □ Mu  tial □ School □ Other (specify):  tite ined (date):	CUSTOMER ID #         unicipal         Utility       Go         Utility       Go         Utility       Go         Yes       No         Yes       No         Other:       No         Other:       No         Gos-ethanol       No         Gas-ethanol       New oil – Fix         Sand/Grave       CAS#         Geo Longitude:       Material	Vehicle fueling:	Yes       No         Private         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         and tightness testing         ii         Diesel         co0°F         Unknown
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:         Ø Bare Steel       Coated Steel       State       Industrial       Resident         Fiberglass       Unknown       Other (specify):       L       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitia         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:       Bare Steel       Coated Steel       Fiberglass       Flexible       Copper         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current       PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with $\Leftrightarrow$ A. Pump auto shu       Suction piping with check valve at tank       Suction piping with check valve at tank <td>alled):         □ Tribal Nation       Mu         tial       □ School         □ Other (specify):         iite         Lined (date):         ⊠ N/A         ial monitoring ⇔ Electronic         Reconciliation (SIR)       ⊠ Unknown         ⊠ N/A         utoff - ELLD       □ B. Flow resalve at pump and inspectable         □ No       ⇔ Sump or cable ser         □ No       ⊕ Sump or cable ser         □ Sa site assessment been co         NK ON/NED ⊆ MA<sup>11</sup></td> <td>CUSTOMER ID #         unicipal         Utility       Go         Utility       Go         Yes       No         Yes       No         Yes       No         Other:       No         trictor – MLLD       N         sor       Yes         Gas-ethanol       New oil – Fi:         Sand/Grave       CAS#         Geo Longitude:       mpleted? (see rever</td> <td>Vehicle fueling: [ Other Government Overnment Fleet Verfill Protection? Oill Containment? ank Double Walled? Inventory control Unknown ot needed if waste co O Unknown ot needed if waste co O SUnknown O SUNKNOW</td> <td>Yes       No         Private         Yes       No         Image: State of the state of t</td>	alled):         □ Tribal Nation       Mu         tial       □ School         □ Other (specify):         iite         Lined (date):         ⊠ N/A         ial monitoring ⇔ Electronic         Reconciliation (SIR)       ⊠ Unknown         ⊠ N/A         utoff - ELLD       □ B. Flow resalve at pump and inspectable         □ No       ⇔ Sump or cable ser         □ No       ⊕ Sump or cable ser         □ Sa site assessment been co         NK ON/NED ⊆ MA <sup>11</sup>	CUSTOMER ID #         unicipal         Utility       Go         Utility       Go         Yes       No         Yes       No         Yes       No         Other:       No         trictor – MLLD       N         sor       Yes         Gas-ethanol       New oil – Fi:         Sand/Grave       CAS#         Geo Longitude:       mpleted? (see rever	Vehicle fueling: [ Other Government Overnment Fleet Verfill Protection? Oill Containment? ank Double Walled? Inventory control Unknown ot needed if waste co O Unknown ot needed if waste co O SUnknown O SUNKNOW	Yes       No         Private         Yes       No         Image: State of the state of t
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date instal         LAND OWNER TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:       Bare Steel       Coated Steel       Steel – Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitia         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:       Bare Steel       Coated Steel         Bare Steel       Coated Steel       Fiberglass       Flexible       Copper         PIPING CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Presurizid piping with $\Leftrightarrow$	alled):         □ Tribal Nation       Mu         titial       □ School         □ Other (specify):         itte         .ined (date):         ☑ N/A         ial monitoring ⇔ Electronic [         Reconciliation (SIR)         ☑ Unknown         ☑ VA         iutoff - ELLD         □ N/A         ☑ N/A         utoff - ELLD         □ No         ⇒ Sump or cable ser         □ Ni         aded         □ Unleaded         rosene       □ New Oil         rface*       □ Empty*	CUSTOMER ID #	Vehicle fueling: [ ] Other Government  Devernment Fleet  Verfill Protection? Dill Containment? ank Double Walled? Dill Containment? Inventory control Dill Unknown Ot needed if waste co O Unknow I blend:% ash point less than 2 /Slurry*  Processide for details)	Yes       No         Private         Yes       No         and tightness testing         il
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:       Bare Steel       Coated Steel       Steel – Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstitia         Manual tank gauging (only for tanks of 1,000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Sacrificial Anodes       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with $\Leftrightarrow$ A. Pump auto shu         Suction piping with check valve at tank       Suction piping with check valve at tank       Suction piping with check valve         PIPING LEAK DETECTION METHOD:       Interstitial monitoring $\Leftrightarrow$ Electronic       Yes       Sing         Tank CONTENTS       Current, or previous product (if t	alled):         □ Tribal Nation       Mu         tital       □ School         □ Other (specify):         tite         .ined (date):         ☑ N/A         ial monitoring ⇔ Electronic [Reconciliation (SIR)         ☑ Unknown       N/A         ☑ Unknown       N/A         ☑ N/A       Inspectable         □ No       ⇒ Sump or cable ser         □ No       ⇒ Sump or cable ser         □ Aded       □ Unleaded         rosene       □ New Oil         rface*       □ Empty*	CUSTOMER ID #         unicipal         Utility       Go         Utility       Go         Yes       No         Yes       No         Other:       No         Other:       No         Income       No         Other:       No         Gas-ethanol       New oil – Fix         Sand/Grave       CAS#         Geo Longitude:       Mpleted? (see revee         Wi.gov       or doth         vstern       No	Vehicle fueling:  Vehicle fueling:  Other Government  verfill Protection? Dill Containment? ank Double Walled? Inventory control: Unknown ot needed if waste co O Unknown ot needed if waste co O Substanticom I blend:% ash point less than 2 //Slurry*  Process side for details) Comment of the second	Yes       No         Private         Yes       No         Yes       No         Yes       No         Yes       No         Yes       No         and tightness testing         ii         Diesel         coo°F         Unknown         Yes       No         Yes       No         Yes       No
SITE ID:       FACILITY ID #         Tank Capacity (gallons):       1000       Tank Age (age or date install         LAND OWNER TYPE (check one)       Refer to back       County       State       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Federal Leased       Federal Owned         OCCUPANCY TYPE (check one)       Refer to back       Retail Fuel Sales       Mercantile/Commercial       Industrial       Resident         Agricultural (crop or livestock production)       Backup or Emergency Generator       TANK CONSTRUCTION:       Bare Steel       Coated Steel       Steel - Fiberglass Reinforced Plastic Composi         Fiberglass       Unknown       Other (specify):       L         TANK CATHODIC PROTECTION:       Sacrificial Anodes       Impressed Current         PRIMARY TANK LEAK DETECTION METHOD:       Automatic tank gauging       Interstiti         Manual tank gauging (only for tanks of 1.000 gallons or less)       Statistical Inventory R         PIPING CONSTRUCTION:       Single Wall       Double Wall:       Bare Steel       Coated Steel       Fiberglass       Impressed Current         PRIMARY PIPING SYSTEM TYPE:       Pressurized piping with \$\dot\$ A. Pump auto shu       Suction piping with check valve at tank       Suction piping with check valve at tank       Suction piping with check valve at tank <td>alled):         □ Tribal Nation       □ Mu         titial       □ School         □ Other (specify):         itte         .ined (date):         ☑ N/A         ial monitoring ⇒ Electronic [         Reconciliation (SIR)         ☑ Unknown         ☑ Unknown         ☑ N/A         utoff - ELLD       □ B. Flow res         alve at pump and inspectable         □ No       ⇒ Sump or cable ser         □ No</td> <td>CUSTOMER ID #</td> <td>Vehicle fueling:  Other Government Overnment Fleet Verfill Protection? Oill Containment? ank Double Walled? Inventory control O Unknown ot needed if waste co O Unknown ot needed if waste co O O Unknown ot needed if waste co O O O Unknown ot needed if waste co O O O O Unknown ot needed if waste co O O O O O O O O O O O O O O O O O O O</td> <td>Yes No     Private     Yes   Yes   Yes   Yes   No   Yes   No   Yes   No   Yes   No   Diesel   00°F   Unknown     Yes   No     No     Yes     No     No</td>	alled):         □ Tribal Nation       □ Mu         titial       □ School         □ Other (specify):         itte         .ined (date):         ☑ N/A         ial monitoring ⇒ Electronic [         Reconciliation (SIR)         ☑ Unknown         ☑ Unknown         ☑ N/A         utoff - ELLD       □ B. Flow res         alve at pump and inspectable         □ No       ⇒ Sump or cable ser         □ No	CUSTOMER ID #	Vehicle fueling:  Other Government Overnment Fleet Verfill Protection? Oill Containment? ank Double Walled? Inventory control O Unknown ot needed if waste co O Unknown ot needed if waste co O O Unknown ot needed if waste co O O O Unknown ot needed if waste co O O O O Unknown ot needed if waste co O O O O O O O O O O O O O O O O O O O	Yes No     Private     Yes   Yes   Yes   Yes   No   Yes   No   Yes   No   Yes   No   Diesel   00°F   Unknown     Yes   No     No     Yes     No     No

TR-WM-137 (8/17) Formerly ERS 7437 (3/13)

FOR OFFICE USE ONLY

### Definitions and explanations for completing this form

Land Owner Type - classifies the organization that owns the property the tank is located on. A "Private" landowner is residential, commercial, mercantile, industrial, farm, non-government owned public utility, or other business organization. Occupancy Type (categories below) – identifies the occupancy in relation to ATCP 93 storage classifications.

Retail Fuel Sales	Tank is used to store any fuel product that is offered for sale in the retail market.
Bulk Plant Storage	Tank is used to store any fuel product that is offered for sale in the wholesale market.
Industrial	Tank is used to store any regulated product associated with an industrial: fleet, heating, industrial fabricating, manufacturing, processing or refining.
Mercantile/Commercial	Tank is used to store any regulated product associated with a commercial business fleet, heating, or processing, e.g., service company, medical facility, freight, airport, apartment, etc.
Utility	Tank is used to store any regulated product associated with a public or private water or power utility fleet, heating, or processing.
Residential	Tank is used to store any regulated product for residential heating or residential automobile fueling.
School	Tank is used to store any regulated product at public or private primary, secondary or higher educational institution.
Agricultural	Tank is used to store any regulated product directly associated with crop or livestock production, meaning a "farm." Refer to ATCP 93.050(48)
Back-up or Emergency Generator	Tank is used to store any fuel used to power a backup or emergency generator; or as back-up to a primary fuel source such as fuel oil back-up to a natural gas fired boiler.
Terminal Storage	Tank is associated with a distribution facility such as an interstate pipeline. These tanks are typically field erected structures of 500,000 + gallon capacity. A million gallon tank at an ethanol production site would be "industrial," not "terminal storage."
Government Fleet	Tank is located at a facility owned and operated by a federal, state, county or local government entity. The tank may be used for vehicle fueling, waste oil or heating purposes.

#### DATCP UST/AST Permit and Registration Group Areas of Responsibility by County

	Terri L. Maus - West TerriL.maus@wisconsin.gov 608-224-5157			Terri Lovicott - North East Theresa.lovicott@wisconsin.gov 608-224-5154		Israel Zurfluh - Central Israel.zurfluh@wisconsin.gov 608-224-5152		Gwen Person - South East Gwendolyn.person@wi.gov 608-224-5153	
02	Ashland	46	Pepin	05	Brown	01	Adams	30	Kenosha
03	Barron	47	Pierce	10	Clark	08	Calumet	40	Milwaukee
04	Bayfield	48	Polk	15	Door	11	Columbia	51	Racine
06	Buffalo	50	Price	19	Florence	13	Dane	53	Rock
07	Burnett	52	Richland	21	Forest	14	Dodge	64	Walworth
09	Chippewa	54	Rusk	31	Kewaunee	20	Fond Du Lac	67	Waukesha
12	Crawford	55	St Croix	34	Langlade	24	Green Lake		
16	Douglas	57	Sawyer	35	Lincoln	28	Jefferson		
17	Dunn	60	Taylor	37	Marathon	36	Manitowoc		
18	Eau Claire	61	Trempealeau	38	Marinette	39	Marquette		
22	Grant	62	Vernon	42	Oconto	45	Ozaukee		
23	Green	65	Washburn	43	Oneida	56	Sauk		
25	Iowa			44	Outagamie	59	Sheboygan		
26	Iron			49	Portage	66	Washington		
27	Jackson			58	Shawano	69	Waushara		
29	Juneau			63	Vilas	70	Winnebago		
32	La Crosse			68	Waupaca				
33	Lafayette			71	Wood				
41	Monroe			72	Menominee				

### **CLOSURE ASSESSMENT INFORMATION**

Requirements for a site assessment at the closure or change in service for ATCP 93 regulated underground storage tank are outlined in ATCP 93.560 and the Federal Register, 40 CFR 280 and 281.

Closure site assessments (TSSA Form Part B) are to be submitted to the DNR as required in the TSSA Guide: <a href="http://datcp.wi.gov/Consumer/Weights\_and\_Measures/Storage\_Tank\_Regulations/index.aspx">http://datcp.wi.gov/Consumer/Weights\_and\_Measures/Storage\_Tank\_Regulations/index.aspx</a>

# Appendix F Laboratory Analytical Results



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

February 01, 2018

DAN HAAK TRC - MADISON 708 HEARTLAND TRAIL Madison, WI 53717

RE: Project: 282751 5TH 116-UST Pace Project No.: 40163759

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tod holtemeyor

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Tom Perkins, TRC Madison Peggy Popp, TRC - Madison





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# CERTIFICATIONS

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

#### **Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



# SAMPLE SUMMARY

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40163759001	DRUM-1	Water	01/17/18 12:00	01/20/18 08:00
40163759002	SWN	Solid	01/17/18 11:20	01/20/18 08:00
40163759003	SWS	Solid	01/17/18 11:22	01/20/18 08:00
40163759004	SWE	Solid	01/17/18 11:24	01/20/18 08:00
40163759005	SWW	Solid	01/17/18 11:26	01/20/18 08:00
40163759006	BE	Solid	01/17/18 11:28	01/20/18 08:00
40163759007	BW	Solid	01/17/18 11:30	01/20/18 08:00



# SAMPLE ANALYTE COUNT

 Project:
 282751 5TH 116-UST

 Pace Project No.:
 40163759

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40163759001	DRUM-1	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	4	PASI-G
		EPA 1010	DEY	1	PASI-G
40163759002	SWN	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759003	SWS	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759004	SWE	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759005	SWW	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759006	BE	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759007	BW	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G



# SUMMARY OF DETECTION

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

Client Sample ID					
Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
DRUM-1					
Lead	1050	ug/L	13.0	01/23/18 18:03	
Flashpoint	>200	deg F		01/24/18 15:21	
SWN					
Percent Moisture	11.3	%	0.10	01/31/18 16:14	
SWS					
Percent Moisture	18.8	%	0.10	01/31/18 16:14	
SWE					
Percent Moisture	10.5	%	0.10	01/31/18 16:14	
SWW					
Percent Moisture	12.3	%	0.10	01/31/18 16:14	
BE					
Percent Moisture	13.6	%	0.10	01/31/18 16:14	
BW					
Percent Moisture	14.3	%	0.10	01/31/18 16:15	
	Client Sample ID Parameters DRUM-1 Lead Flashpoint SWN Percent Moisture SWE Percent Moisture SWW Percent Moisture BE Percent Moisture BE Percent Moisture BW Percent Moisture	Client Sample IDParametersResultDRUM-1Lead1050Flashpoint>200SWNPercent Moisture11.3SWSPercent Moisture18.8SWEPercent Moisture10.5SWWPercent Moisture12.3BEPercent Moisture13.6BWPercent Moisture14.3	Client Sample IDParametersResultUnitsDRUM-1UnitsLead1050ug/LFlashpoint>200deg FSWNPercent Moisture11.3%Percent Moisture18.8%SWEPercent Moisture10.5%SWWPercent Moisture12.3%BEPercent Moisture13.6%BWPercent Moisture14.3%	Client Sample IDParametersResultUnitsReport LimitDRUM-1Lead1050ug/L13.0Flashpoint>200deg F13.0SWNPercent Moisture11.3%0.10SWSPercent Moisture18.8%0.10SWEPercent Moisture10.5%0.10SWWPercent Moisture12.3%0.10BEPercent Moisture13.6%0.10BWPercent Moisture13.6%0.10BWPercent Moisture14.3%0.10	Client Sample ID         Parameters         Result         Units         Report Limit         Analyzed           DRUM-1



Project: 282751 5TH 116-UST

#### Pace Project No.: 40163759

# Method: WI MOD GRO

Description:WIGRO GCVClient:TRC - MADISONDate:February 01, 2018

#### General Information:

6 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:



Project: 282751 5TH 116-UST

#### Pace Project No.: 40163759

# Method:EPA 6010Description:6010 MET ICPClient:TRC - MADISONDate:February 01, 2018

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:



Project: 282751 5TH 116-UST

#### Pace Project No.: 40163759

Method:EPA 8260Description:8260 MSVClient:TRC - MADISONDate:February 01, 2018

#### General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### **Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

#### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:

Analyte Comments:

#### QC Batch: 279469

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
  - DRUM-1 (Lab ID: 40163759001)
    - 4-Bromofluorobenzene (S)



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

#### Method: EPA 1010

Description:1010 Flashpoint,Closed CupClient:TRC - MADISONDate:February 01, 2018

#### **General Information:**

1 sample was analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### **Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.



#### Project: 282751 5TH 116-UST

Pace Project No.: 40163759

Sample: DRUM-1	Lab ID:	40163759001	Collected	d: 01/17/18	8 12:00	Received: 01/	20/18 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepa	ration Metho	od: EPA	3010			
Lead	1050	ug/L	13.0	4.3	1	01/23/18 09:07	01/23/18 18:03	7439-92-1	
8260 MSV	Analytical	Method: EPA 8	260						
Benzene Surrogates	<1.0	ug/L	2.0	1.0	2		01/23/18 11:14	71-43-2	
4-Bromofluorobenzene (S)	82	%	61-130		2		01/23/18 11:14	460-00-4	D3
Dibromofluoromethane (S)	106	%	67-130		2		01/23/18 11:14	1868-53-7	
Toluene-d8 (S)	91	%	70-130		2		01/23/18 11:14	2037-26-5	
1010 Flashpoint,Closed Cup	Analytical	Method: EPA 1	010						
Flashpoint	>200	deg F			1		01/24/18 15:21		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

 Sample:
 SWN
 Lab ID:
 40163759002
 Collected:
 01/17/18 11:20
 Received:
 01/20/18 08:00
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation I	Method	I: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/23/18 06:15	01/23/18 12:26	179601-23-1	W
o-Xylene <b>Surrogates</b>	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:26	95-47-6	W
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	01/23/18 06:15	01/23/18 12:26	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	11.3	%	0.10	0.10	1		01/31/18 16:14		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

 Sample:
 SWS
 Lab ID:
 40163759003
 Collected:
 01/17/18 11:22
 Received:
 01/20/18 08:00
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI		reparation N	lethoo	I: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/23/18 06:15	01/23/18 12:52	179601-23-1	W
o-Xylene Surrogates	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 12:52	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	01/23/18 06:15	01/23/18 12:52	98-08-8	
Percent Moisture	Analytical	Method: AS	FM D2974-87						
Percent Moisture	18.8	%	0.10	0.10	1		01/31/18 16:14		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

 Sample:
 SWE
 Lab ID:
 40163759004
 Collected:
 01/17/18
 11:24
 Received:
 01/20/18
 08:00
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	Nethod	: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/23/18 06:15	01/23/18 13:18	179601-23-1	W
o-Xylene Surrogates	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:18	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	01/23/18 06:15	01/23/18 13:18	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	10.5	%	0.10	0.10	1		01/31/18 16:14		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

 Sample:
 SWW
 Lab ID:
 40163759005
 Collected:
 01/17/18 11:26
 Received:
 01/20/18 08:00
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethoo	I: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/23/18 06:15	01/23/18 13:43	179601-23-1	W
o-Xylene Surrogates	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 13:43	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	01/23/18 06:15	01/23/18 13:43	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	12.3	%	0.10	0.10	1		01/31/18 16:14		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

 Sample:
 BE
 Lab ID:
 40163759006
 Collected:
 01/17/18 11:28
 Received:
 01/20/18 08:00
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	Nethod	: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/23/18 06:15	01/23/18 14:09	179601-23-1	W
o-Xylene Surrogates	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:09	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	01/23/18 06:15	01/23/18 14:09	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	13.6	%	0.10	0.10	1		01/31/18 16:14		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

 Sample:
 BW
 Lab ID:
 40163759007
 Collected:
 01/17/18 11:30
 Received:
 01/20/18 08:00
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units		LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	Nethod	: TPH GRO/PVOC	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	01/23/18 06:15	01/23/18 14:35	179601-23-1	W
o-Xylene Surrogates	<25.0	ug/kg	60.0	25.0	1	01/23/18 06:15	01/23/18 14:35	95-47-6	W
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	01/23/18 06:15	01/23/18 14:35	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	14.3	%	0.10	0.10	1		01/31/18 16:15		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

QC Batch:	279554	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samp	les: 40163759002, 40163759003, 40	163759004, 40163759005	, 40163759006, 40163759007

 METHOD BLANK:
 1641002
 Matrix:
 Solid

 Associated Lab Samples:
 40163759002, 40163759003, 40163759004, 40163759005, 40163759006, 40163759007

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	01/23/18 07:44	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	01/23/18 07:44	
Benzene	ug/kg	<25.0	50.0	01/23/18 07:44	
Ethylbenzene	ug/kg	<25.0	50.0	01/23/18 07:44	
m&p-Xylene	ug/kg	<50.0	100	01/23/18 07:44	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	01/23/18 07:44	
Naphthalene	ug/kg	<25.0	50.0	01/23/18 07:44	
o-Xylene	ug/kg	<25.0	50.0	01/23/18 07:44	
Toluene	ug/kg	<25.0	50.0	01/23/18 07:44	
a,a,a-Trifluorotoluene (S)	%	102	80-120	01/23/18 07:44	

LABORATORY CONTROL SAMPL	.E & LCSD: 1641003		16	641004						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1090	1160	109	116	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1080	1140	108	114	80-120	5	20	
Benzene	ug/kg	1000	1020	1070	102	107	80-120	4	20	
Ethylbenzene	ug/kg	1000	1080	1130	108	113	80-120	5	20	
m&p-Xylene	ug/kg	2000	2140	2240	107	112	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	986	1030	99	103	80-120	4	20	
Naphthalene	ug/kg	1000	1050	1120	105	112	80-120	7	20	
o-Xylene	ug/kg	1000	1060	1110	106	111	80-120	4	20	
Toluene	ug/kg	1000	1060	1110	106	111	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				103	102	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### **REPORT OF LABORATORY ANALYSIS**

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Project:	282751 5TH 116-L	JST										
Pace Project No.:	40163759											
QC Batch:	279581		Analysi	is Method:	EI	PA 6010						
QC Batch Method:	EPA 3010		Analysi	is Descript	ion: 60	010 MET						
Associated Lab San	nples: 40163759	001										
METHOD BLANK:	1641075		N	latrix: Wat	ter							
Associated Lab San	nples: 40163759	001										
			Blank	R	eporting							
Paran	neter	Units	Result	t	Limit	Analyz	ed	Qualifiers				
Lead		ug/L		<4.3	13.0	01/23/18	17:21					
LABORATORY COM	NTROL SAMPLE:	1641076										
			Spike	LCS	i	LCS	% Rec	;				
Paran	neter	Units	Conc.	Resu	lt	% Rec	Limits	Qı	ualifiers	_		
Lead		ug/L	500		525	105	80	-120				
MATRIX SPIKE & M	IATRIX SPIKE DUP	LICATE: 16410	77		1641078							
			MS	MSD								
		40163674001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Unit	ts Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Lead	ug/	L <4.3	500	500	520	515	104	103	75-125	1	20	

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Project: 282751 5TH 116-UST

Pace Project No.: 40163759

QC Batch: 279469		Analysis N	lethod:	EPA 8260						
QC Batch Method: EPA 8260		Analysis E	Description:	8260 MSV						
Associated Lab Samples: 40163759	001									
METHOD BLANK: 1640748		Matr	Matrix: Water							
Associated Lab Samples: 40163759	001									
		Blank	Reporting							
Parameter	Units	Result	Limit	Analyze	d Quali	fiers				
Benzene	ug/L	<0.5	50	1.0 01/22/18 0	8:30					
4-Bromofluorobenzene (S)	%	8	61-1	30 01/22/18 0	8:30					
Dibromofluoromethane (S)	%	10	02 67-1	30 01/22/18 0	8:30					
Toluene-d8 (S)	%	ę	93 70-1	30 01/22/18 0	8:30					
LABORATORY CONTROL SAMPLE:	1640749									
		Spike	LCS	LCS	% Rec					
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers				
Benzene	ug/L		43.6	87	73-145					
4-Bromofluorobenzene (S)	%			98	61-130					
Dibromofluoromethane (S)	%			101	67-130					
Toluene-d8 (S)	%			92	70-130					

MATRIX SPIKE & MATRIX SPI		CATE: 164084	42		1640843							
Parameter	Units	40163693002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<1.0	50	50	44.9	45.6	90	91	73-145	2	20	
4-Bromofluorobenzene (S)	%						96	100	61-130			
Dibromofluoromethane (S)	%						107	101	67-130			
Toluene-d8 (S)	%						90	93	70-130			

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# **REPORT OF LABORATORY ANALYSIS**

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Project: 282751 5TH 116-UST

Pace Project No.: 40163759

QC Batch:	28027	6	Analysis	Method:	ASTM D2974-87	
QC Batch Method:	ASTM	D2974-87	Analysis	Description:	Dry Weight/Percent Moisture	
Associated Lab Samp	les:	40163759002,	40163759003, 4016375900	04, 40163759005,	40163759006, 40163759007	

SAMPLE DUPLICATE: 1644478						
		40163795008	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	18.0	18.2	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	282751 5TH 116-L	JST						
Pace Project No.:	40163759							
QC Batch:	279738		Analysis M	lethod:	EPA 1010			
QC Batch Method: EPA 1010			Analysis D	escription:	1010 Flash Poi	nt, Closed Cup		
Associated Lab Sar	mples: 40163759	001						
LABORATORY CO	NTROL SAMPLE:	1641756						
			Spike	LCS	LCS	% Rec		
Parar	neter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Flashpoint		deg F		82.0				
SAMPLE DUPLICA	TE: 1641760							
			40163759001	1 Dup		Max		
Parar	neter	Units	Result	Result	RPD	RPD	Qualifiers	
Flashpoint		deg F	>20	>20	00			

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# **REPORT OF LABORATORY ANALYSIS**

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# QUALIFIERS

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

W Non-detect results are reported on a wet weight basis.



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 282751 5TH 116-UST

 Pace Project No.:
 40163759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40163759002	SWN	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759003	SWS	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759004	SWE	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759005	SWW	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759006	BE	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759007	BW	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759001	DRUM-1	EPA 3010	279581	EPA 6010	279658
40163759001	DRUM-1	EPA 8260	279469		
40163759002	SWN	ASTM D2974-87	280276		
40163759003	SWS	ASTM D2974-87	280276		
40163759004	SWE	ASTM D2974-87	280276		
40163759005	SWW	ASTM D2974-87	280276		
40163759006	BE	ASTM D2974-87	280276		
40163759007	BW	ASTM D2974-87	280276		
40163759001	DRUM-1	EPA 1010	279738		

	(P	ease Print Cl	early)										UPPE		NEST R	EGION		Page 1	of u
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ACE LAB #	•		ur sample S <sup>s</sup> LD ID	= Soll = Sludge COL DATE	WW = Was WP = Wipe LECTION TIME	MATRIX	Ana	Puec	Ber	لىشا	Flas					CLIENT COMMENTS	LAB C	OMMENTS Use Only)	Profile #
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J.

				-	-	1241 Bellevue Street, Green Bav Wi
Client Name: TR				Project #:	<b>₩0</b> #:	40163759
			م سلام	~		
Tracking #: $ 6 8885- $	ce Othe	er: <u>v</u>	Jance	)		
Custody Seal on Cooler/Box Present: Ves	no no	Seal	s intac	t: ✓ yes ┌─ no	40163759	
Custody Seal on Samples Present: Fyes D	🖉 no	Seal	s intac	t Tyes no		
Packing Material: Bubble Wrap But	oble Ba	gs I	Nor	e COther		
Thermometer Used <u>K-d4</u>	Type	of Ice	: Vet	) Blue Dry None	Samples o	n ice, cooling process has begun
Tomo Black Present	2		_Biolo	ogical Tissue is Fre	ozen: yes	r
Temp Blank Present: Ves Mon					i no	Person examining contents
Biota Samples may be received at $\leq 0^{\circ}$ C.				Comments:		Initials:
Chain of Custody Present:	ØYes	⊡No		1.		
Chain of Custody Filled Out:	<b>Ø</b> Yes	□No		2.		
Chain of Custody Relinquished:	<b>Ø</b> Yes	□No	□n/a	3.		
Sampler Name & Signature on COC:	<b>Ø</b> Yes	□No		4.		
Samples Arrived within Hold Time:	<b>A</b> Yes	□No		5.		
- VOA Samples frozen upon receipt	□Yes	□No		Date/Time:		
Short Hold Time Analysis (<72hr):	□Yes	Ø№	□n/a	6.		
Rush Turn Around Time Requested:	□Yes	ØNo	□n/a	7.		
Sufficient Volume:	□Yes	ØN0		8. NO mg/	MO Dem	K 1/20/4
Correct Containers Used:	ØYes	□No	□n/a	9.		
-Pace Containers Used:	Ø Yes	□No	□n/a			
-Pace IR Containers Used:	□Yes	□No				
Containers Intact:	Yes	□No		10.		
-iltered volume received for Dissolved tests	□Yes	□No		11.		
Sample Labels match COC:	<b>X</b> Yes	No		12.		
-Includes date/time/ID/Analysis Matrix:	<u>Stv</u>	<u> </u>				
All containers needing preservation have been checked.	Ves				B T H2SO4 I	
VII containers needing preservation are found to be in ompliance with EPA recommendation.	Yes			13. 🗡	· · *	,
Copping: VOA coliform, TOC, TOX, TOH, &G, WIDROW, Phenolics, OTHER:	Ves	□No		Initial when completed	Lab Std #ID of preservative	Date/ Time:
eadspace in VOA Vials ( >6mm):	□Yes	<b>N</b> No		14.		
rip Blank Present:	□Yes	No		15.		. <u> </u>
rip Blank Custody Seals Present	□Yes	□No				
ace Trip Blank Lot # (if purchased):			¢			

for Th

RAR

Date: 1/20/18
# Appendix G Waste Inventory Forms

# Perkins, Thomas

From:	Voit, Angela
Sent:	Thursday, February 01, 2018 2:44 PM
То:	kenneth.gruennert@veolia.com
Cc:	DOT Hazmat Unit (DOTHazmatUnit@dot.wi.gov); 'kathie.vanprice@dot.wi.gov'; Perkins, Thomas
Subject:	Non-Hazardous Waste Inventory Record - STH 116, Winneconne (WisDOT ID 6190-15-72)
Attachments:	Non-Hazardous Waste Inventory Record - STH 116, Winneconne_WisDOT ID 6190-15-72.pdf

Please see the attached Non-Hazardous Waste Inventory Record for drum pickup for the STH 116 project in Winneconne.

Thank you,

Angie Voit Senior Project Coordinator



708 Heartland Trail, Suite 3000, Madison, WI 53717 T: 608.444.3509 <u>avoit@trcsolutions.com</u>

LinkedIn | Twitter | Blog | Flickr | www.trcsolutions.com



## NON-HAZARDOUS WASTE INVENTORY RECORD

Wisconsin Department of Transportation DT1229 6/2016 (For use with DT1208)

DTSD Region and Office		
Northeast - Green Bay		
WisDOT Project ID	County	Highway and Termini
6190-15-72	Winnebago	STH 116
Site Name		Phase of Investigation
105 E. Main Street		4
Consultant Company		
TRC Environmental Corporation	วท	
Consultant Contact		
Dan Haak		
Contact (Area Code) Telephone Num	ber	
608-826-3628		
Contact Email Address		
dhaak@trcsolutions.com		
Consultant ID for this Site		
282751		
Generation Date (m/d/yyyy)		
1/17/2018		
Comments, special instructions for pic	kup or site access	
See attached map for drum lo	cation. Access to drums via S. 1 <sup>st</sup> Ave.	

Waste Description – describe containers of similar size and contents in one row. Insert additional rows as needed. *Number and Label Each Container.* 

Container ID Number	Container Size and Type	Estimated Volume of Waste	Source: Tank, Well, Boring	Contents: Soil, Water, Other (Describe)
Example: 1, 4, 5, 6, 7, 18, 22, 23	Example: 30 gallon metal drum	Example: 8 drums x 30 gal = 240 gallons	Example: monitoring wells # MW3, MW4, and MW7	Example: wash water, alconox
1 of 2	55 Gallon Metal Drum	35 Gallons	Tank	Tank Water and Soil
2 of 2	55 Gallon Metal Drum	15 Gallons	Tanks	Tank Water and Soil

Total Number of Containers to be picked up: 2

Container Location: Attach map or site sketch to Email

Analytical Results: Attach analytical results to Email

Email one copy of this form to each of the following:

- DOT Hazardous Materials Specialist
- Regional Environmental or Hazardous Materials Coordinator
- Hazardous Waste Contractor

Include a copy of this form as the final appendix in the report for this site.







Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

February 01, 2018

DAN HAAK TRC - MADISON 708 HEARTLAND TRAIL Madison, WI 53717

RE: Project: 282751 5TH 116-UST Pace Project No.: 40163759

Dear DAN HAAK:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tod holtemeyor

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Tom Perkins, TRC Madison Peggy Popp, TRC - Madison





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## CERTIFICATIONS

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

#### **Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263 South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## SAMPLE SUMMARY

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40163759001	DRUM-1	Water	01/17/18 12:00	01/20/18 08:00
40163759002	SWN	Solid	01/17/18 11:20	01/20/18 08:00
40163759003	SWS	Solid	01/17/18 11:22	01/20/18 08:00
40163759004	SWE	Solid	01/17/18 11:24	01/20/18 08:00
40163759005	SWW	Solid	01/17/18 11:26	01/20/18 08:00
40163759006	BE	Solid	01/17/18 11:28	01/20/18 08:00
40163759007	BW	Solid	01/17/18 11:30	01/20/18 08:00



## SAMPLE ANALYTE COUNT

 Project:
 282751 5TH 116-UST

 Pace Project No.:
 40163759

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40163759001	DRUM-1	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	4	PASI-G
		EPA 1010	DEY	1	PASI-G
40163759002	SWN	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759003	SWS	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759004	SWE	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759005	SWW	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759006	BE	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40163759007	BW	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	KTS	1	PASI-G



## SUMMARY OF DETECTION

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

Client Sample ID					
Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
DRUM-1					
Lead	1050	ug/L	13.0	01/23/18 18:03	
Flashpoint	>200	deg F		01/24/18 15:21	
SWN					
Percent Moisture	11.3	%	0.10	01/31/18 16:14	
SWS					
Percent Moisture	18.8	%	0.10	01/31/18 16:14	
SWE					
Percent Moisture	10.5	%	0.10	01/31/18 16:14	
SWW					
Percent Moisture	12.3	%	0.10	01/31/18 16:14	
BE					
Percent Moisture	13.6	%	0.10	01/31/18 16:14	
BW					
Percent Moisture	14.3	%	0.10	01/31/18 16:15	
	Client Sample ID Parameters DRUM-1 Lead Flashpoint SWN Percent Moisture SWE Percent Moisture SWW Percent Moisture BE Percent Moisture BE Percent Moisture BW Percent Moisture	Client Sample IDParametersResultDRUM-1Lead1050Flashpoint>200SWNPercent Moisture11.3SWSPercent Moisture18.8SWEPercent Moisture10.5SWWPercent Moisture12.3BEPercent Moisture13.6BWPercent Moisture14.3	Client Sample IDParametersResultUnitsDRUM-1Lead1050ug/LLead1050ug/LFlashpoint>200deg FSWNPercent Moisture11.3%SWSSWSSWSPercent Moisture18.8%SWE10.5%SWWSWWSWWPercent Moisture12.3%BEPercent Moisture13.6%BW14.3%	Client Sample IDParametersResultUnitsReport LimitDRUM-1Lead1050ug/L13.0Flashpoint>200deg F13.0SWNPercent Moisture11.3%0.10SWSPercent Moisture18.8%0.10SWEPercent Moisture10.5%0.10SWEPercent Moisture12.3%0.10BEPercent Moisture13.6%0.10BWPercent Moisture13.6%0.10BWPercent Moisture14.3%0.10	Client Sample ID           Parameters         Result         Units         Report Limit         Analyzed           DRUM-1         Lead         1050         ug/L         13.0         01/23/18 18:03         01/23/18 18:03         01/24/18 15:21           SWN         Percent Moisture         11.3         %         0.10         01/31/18 16:14           SWS         Percent Moisture         18.8         %         0.10         01/31/18 16:14           SWE         Percent Moisture         18.8         %         0.10         01/31/18 16:14           SWE         Percent Moisture         10.5         %         0.10         01/31/18 16:14           BW         Percent Moisture         12.3         %         0.10         01/31/18 16:14           BW         Percent Moisture         13.6         %         0.10         01/31/18 16:14           BW         Percent Moisture         13.6         %         0.10         01/31/18 16:14



Project: 282751 5TH 116-UST

#### Pace Project No.: 40163759

## Method: WI MOD GRO

Description:WIGRO GCVClient:TRC - MADISONDate:February 01, 2018

#### **General Information:**

6 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:



Project: 282751 5TH 116-UST

#### Pace Project No.: 40163759

# Method:EPA 6010Description:6010 MET ICPClient:TRC - MADISON

Date: February 01, 2018

#### General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:



Project: 282751 5TH 116-UST

#### Pace Project No.: 40163759

Method:EPA 8260Description:8260 MSVClient:TRC - MADISONDate:February 01, 2018

#### General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### **Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

#### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Additional Comments:

Analyte Comments:

## QC Batch: 279469

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
  - DRUM-1 (Lab ID: 40163759001)
    - 4-Bromofluorobenzene (S)



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

#### Method: EPA 1010

Description:1010 Flashpoint,Closed CupClient:TRC - MADISONDate:February 01, 2018

#### General Information:

1 sample was analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



## ANALYTICAL RESULTS

#### Project: 282751 5TH 116-UST

Pace Project No.: 40163759

Sample: DRUM-1	Lab ID:	40163759001	Collected	d: 01/17/18	8 12:00	Received: 01/	20/18 08:00 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical	Method: EPA 6	010 Prepar	ration Metho	od: EPA	3010			
Lead	1050	ug/L	13.0	4.3	1	01/23/18 09:07	01/23/18 18:03	7439-92-1	
8260 MSV	Analytical	Method: EPA 8	260						
Benzene Surrogates	<1.0	ug/L	2.0	1.0	2		01/23/18 11:14	71-43-2	
4-Bromofluorobenzene (S)	82	%	61-130		2		01/23/18 11:14	460-00-4	D3
Dibromofluoromethane (S)	106	%	67-130		2		01/23/18 11:14	1868-53-7	
Toluene-d8 (S)	91	%	70-130		2		01/23/18 11:14	2037-26-5	
1010 Flashpoint,Closed Cup	Analytical	Method: EPA 1	010						
Flashpoint	>200	deg F			1		01/24/18 15:21		



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

QC Batch:	279554	ŀ	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GF	RO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Sam	ples: 4	40163759002, 40163759003, 40	163759004, 40163759005	, 40163759006, 40163759007

 METHOD BLANK:
 1641002
 Matrix:
 Solid

 Associated Lab Samples:
 40163759002, 40163759003, 40163759004, 40163759005, 40163759006, 40163759007

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	01/23/18 07:44	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	01/23/18 07:44	
Benzene	ug/kg	<25.0	50.0	01/23/18 07:44	
Ethylbenzene	ug/kg	<25.0	50.0	01/23/18 07:44	
m&p-Xylene	ug/kg	<50.0	100	01/23/18 07:44	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	01/23/18 07:44	
Naphthalene	ug/kg	<25.0	50.0	01/23/18 07:44	
o-Xylene	ug/kg	<25.0	50.0	01/23/18 07:44	
Toluene	ug/kg	<25.0	50.0	01/23/18 07:44	
a,a,a-Trifluorotoluene (S)	%	102	80-120	01/23/18 07:44	

LABORATORY CONTROL SAMPLE & LCSD: 1641003 1641004										
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1090	1160	109	116	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1080	1140	108	114	80-120	5	20	
Benzene	ug/kg	1000	1020	1070	102	107	80-120	4	20	
Ethylbenzene	ug/kg	1000	1080	1130	108	113	80-120	5	20	
m&p-Xylene	ug/kg	2000	2140	2240	107	112	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	986	1030	99	103	80-120	4	20	
Naphthalene	ug/kg	1000	1050	1120	105	112	80-120	7	20	
o-Xylene	ug/kg	1000	1060	1110	106	111	80-120	4	20	
Toluene	ug/kg	1000	1060	1110	106	111	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				103	102	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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Project:	282751 5TH 116-L	JST										
Pace Project No.:	40163759											
QC Batch:	279581		Analysi	s Method:	EI	PA 6010						
QC Batch Method:	EPA 3010		Analysi	s Descript	ion: 60	010 MET						
Associated Lab Sar	nples: 40163759	001										
METHOD BLANK:	1641075		М	atrix: Wat	er							
Associated Lab Sar	nples: 40163759	001										
			Blank	R	eporting							
Paran	neter	Units	Result		Limit	Analyz	ed	Qualifiers				
Lead		ug/L		<4.3	13.0	01/23/18	17:21					
LABORATORY COI	NTROL SAMPLE:	1641076										
			Spike	LCS		LCS	% Rec	;				
Parar	neter	Units	Conc.	Resu	lt	% Rec	Limits	Qu	alifiers	_		
Lead		ug/L	500		525	105	80	-120				
MATRIX SPIKE & M	IATRIX SPIKE DUF	PLICATE: 16410	77		1641078							
			MS	MSD								
		40163674001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Uni	ts Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Lead	ug/	L <4.3	500	500	520	515	104	103	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 282751 5TH 116-UST

Pace Project No.: 40163759

QC Batch: 279469		Analysis M	lethod:	EPA 8260		
QC Batch Method: EPA 8260		Analysis D	escription:	8260 MSV		
Associated Lab Samples: 40163759	001					
METHOD BLANK: 1640748		Matr	ix: Water			
Associated Lab Samples: 40163759	001					
		Blank	Reporting	]		
Parameter	Units	Result	Limit	Analyze	d Quali	fiers
Benzene	ug/L	<0.5	0	1.0 01/22/18 08	3:30	
4-Bromofluorobenzene (S)	%	8	7 61-1	130 01/22/18 0	8:30	
Dibromofluoromethane (S)	%	10	2 67-1	130 01/22/18 0	8:30	
Toluene-d8 (S)	%	g	3 70-1	130 01/22/18 0	3:30	
LABORATORY CONTROL SAMPLE:	1640749					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L	50	43.6	87	73-145	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIK		CATE: 164084	42		1640843							
		40163693002	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	<1.0	50	50	44.9	45.6	90	91	73-145	2	20	
4-Bromofluorobenzene (S)	%						96	100	61-130			
Dibromofluoromethane (S)	%						107	101	67-130			
Toluene-d8 (S)	%						90	93	70-130			

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## **REPORT OF LABORATORY ANALYSIS**

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Project: 282751 5TH 116-UST

Pace Project No.: 40163759

QC Batch:	28027	6	Analysis Method:	ASTM D2974-87	
QC Batch Method:	ASTM	D2974-87	Analysis Description:	Dry Weight/Percent Moisture	
Associated Lab Samp	les:	40163759002, 401	63759003, 40163759004, 40163759005	, 40163759006, 40163759007	

SAMPLE DUPLICATE: 1644478						
		40163795008	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	18.0	18.2	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	282751 5TH 116-L	JST						
Pace Project No.:	40163759							
QC Batch:	279738		Analysis M	lethod:	EPA 1010			
QC Batch Method: EPA 1010		Analysis Description:		1010 Flash Poi	nt, Closed Cup			
Associated Lab Sar	mples: 40163759	001						
LABORATORY CO	NTROL SAMPLE:	1641756						
			Spike	LCS	LCS	% Rec		
Parar	neter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Flashpoint		deg F		82.0				
SAMPLE DUPLICA	TE: 1641760							
			40163759001	I Dup		Max		
Parar	neter	Units	Result	Result	RPD	RPD	Qualifiers	
Flashpoint		deg F	>20	0 >20	00			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: 282751 5TH 116-UST

Pace Project No.: 40163759

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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 TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

W Non-detect results are reported on a wet weight basis.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 282751 5TH 116-UST

 Pace Project No.:
 40163759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40163759002	SWN	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759003	SWS	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759004	SWE	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759005	SWW	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759006	BE	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759007	BW	TPH GRO/PVOC WI ext.	279554	WI MOD GRO	279603
40163759001	DRUM-1	EPA 3010	279581	EPA 6010	279658
40163759001	DRUM-1	EPA 8260	279469		
40163759002	SWN	ASTM D2974-87	280276		
40163759003	SWS	ASTM D2974-87	280276		
40163759004	SWE	ASTM D2974-87	280276		
40163759005	SWW	ASTM D2974-87	280276		
40163759006	BE	ASTM D2974-87	280276		
40163759007	BW	ASTM D2974-87	280276		
40163759001	DRUM-1	FPA 1010	279738		

	(Pi	lease Print Clearly)				$\sim$						UPPE	RMIDV	VEST R	EGION		Page 1 of
ompany N	ame:	TRE ENVIRONMENT	AL				-					MN: 6	2-607	51700	WI: 920-469-2436		of 2;
ranch/Loc	ation:	MADISON, L	JI		1	Pace	Ana	lytic	al			$\checkmark$	NO			Ć	10/63759 2
roject Con	tact:	DAN HAAL			/		er nem. pi	304516203.1	Jun						Quote #:		ас Г
ione:		608 826 3628	,		CHAIN OF CUSTODY									Mail To Contact:	DAN	HAAK	
oject Number: 28275												]	Mail To Company:	TRC	-		
oject Nam	ne:	STH 116 - UST			H=Sodium Bis	ulfate Solu	tion	I=Sodiur	n Thiosul	ate J=	Other				Mail To Address:	708 1	HEARTLAND TRAFL
oject Stat	e:	WESCONSEN		F	LTERED? YES/NO)	Y/N	N	$\sim$	$\sim$	$\sim$	indicitating resolution	Τ		1	1	SLETE	3000
mpled By	(Print):	Ton L. Perk	Lins	PRE	SERVATION	Pick	F	F	D	A				1	Invoice To Contact:	INV. DI	-2000 / WL 3 5 11 1
npled By	(Sign):	-Z-R			(0052)		1					-		<u>†</u>	Invoice To Company:		
#:			Regulat	tory		sted	Le 1			+					Invoice To Address:		
ata Pack	age Op	tions MS/MSD	Flogia	Matrix Co	des	enb	hh			~							
(ы Е Е Е Е Е	illable) PA Level PA Level	III (billable) IV NOT needed on	A = Air B = Biota C = Charco O = Oil S = Soil	W = Wa DW = D al GW = C SW = S WW = 1	iter Irinking Water Ground Water urface Water Vaste Water	alyses Re	c/Nu	Zere	3	sh it					Invoice To Phone:		
CE LAB #	ŧ	CLIENT FIELD ID	SI = Sludge	WP = V COLLECTION TE TIM	MATRD	- W	Pho	Be	ر ا	Fla					CLIENT COMMENTS	(Lab	Use Only)
$\infty$	Dr	ZUM-1	110	118 120	061			X	X	X			2-	yom	1,3 1-250m/	PK	5- 100 ml ag A
02	51	WN		112	05		X								1- 402PA 1.	- 40 ml	VE
53	Si	JS		112	25		X			,							
04	50	νE		1124	15		×										
05	S	ωw		112	5 5		×										
06	B	E		112	.\$ 5		X										
07	B	W		113	05		X									V	
																	lay in y giyan yayan di addi da dala dala dalam dala mana dala mana di dalam di dalam di dalam di dalam dalam d
Rush T	urnarou	nd Time Requested - Preli	ns r	Relinquished	By:		lan second second	Dat	e/Time:	180	~	Received	By:		Date/Time:		PACE Project No.
(Rush	Date	Dject to approval/surcharge Needed:	<del>)</del>	Relinquished	By: 1)		-	Dat	e/Time:	0000	<u> </u>	Received	BY2	10.5	Date/Time:		40/63759
ransmit Pr	elim Rush	Results by (complete what you	vant):	N.	aura	>		1/2	0/18	080	U	LV	N	WZ	pan 1/20/18	0100	-Receipt Temp = 2 °C
11 #1: 11 #2:	TREM	HENTRIC SQUTEOUS (	SM I	Relinquished	Ву:			Dat	e/Time:			Received	By:		Date/Time:		Sample Receipt pH
phone:	THER	KINSKIKL XUITO	172. CO.M-	Relinquished	By:			Dat	e/Time:	NINCE SECOND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL		Received	By:		Date/Time:		OK / Adjusted
Bara di	Samples o	on HOLD are subject to	F	Relinquished	Ву:			Dat	e/Time:	5-5-5-5-5-6-6-6-6-6-6-6-6-		Received	By:		Date/Time:		Cooter Custody Seal Present / Not Present
sp	eclal prici	ng and release of liability			Skillen mangala Belakaran					andre ordenandere	Academic State (Salardan						/ Intact / Not Intact

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<b>S</b>	Sample Condition Upon Receipt Pace Analytical Services, LLC Green B 1241 Bellevue Street, S
Pace Analytical"	Green Bay, WI
Client Name:	Project #: W0#:40163759
Courier: Fed Ex UPS Client P	ace Other: Waltco
custody Seal on Cooler/Box Present:	40163759
Custody Seal on Samples Present: Ves	Image: Seals intact:     yes     no
Packing Material: P Bubble Wrap P B	ubble Bags None Other
Thermometer Used SR - 24	Type of Ice: Wet) Blue Dry None Samples on ice cooling process has begun
Cooler Temperature Uncorr: 7 /Corr	Biological Tissue is Frozen: Tyes
Temp Blank Present: Ves Ino	no Person examining contents:
Temp should be above freezing to $6^{\circ}$ C. Biota Samples may be received at $\leq 0^{\circ}$ C.	Comments:
Chain of Custody Present:	ØYes □No □N/A 1.
Chain of Custody Filled Out:	ØYes □No □N/A 2.
Chain of Custody Relinquished:	ØYes □No □N/A 3.
Sampler Name & Signature on COC:	Øfres □No □N/A 4.
Samples Arrived within Hold Time:	ØYes □No □N/A 5.
- VOA Samples frozen upon receipt	Yes No Date/Time:
Short Hold Time Analysis (<72hr):	□Yes ØNo □N/A 6.
Rush Turn Around Time Requested:	DYes ZNO DN/A 7.
Sufficient Volume:	TYes ZINO DN/A 8. NO MS (Mail) Rel/20/4
Correct Containers Used:	ØYes □No □N/A 9.
-Pace Containers Used:	ØYes □No □N/A
-Pace IR Containers Used:	
Containers Intact:	ØYes □No □N/A 10.
iltered volume received for Dissolved tests	□Yes □No □N/A 11.
Sample Labels match COC:	ZYes □No □N/A 12.
-Includes date/time/ID/Analysis Matrix:	STW
Non-Compliance noted in 13.)	MYes DNo DN/A 13, HNO3 H2SO4 NaOH NAOH +ZnAct
Il containers needing preservation are found to be in	
HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	
xceptions: VOA, Coliform, TOC, TOX, TOH, &G, WINROW, Phenolics, OTHER:	Yes □No Initial when Completed Preservative Date/ Time:
leadspace in VOA Vials ( >6mm):	□Yes ØNo □N/A 14.
rip Blank Present:	□Yes ZNo □N/A 15.
rip Blank Custody Seals Present	
ace Trip Blank Lot # (if purchased):	
Person Contacted:	If checked, see attached form for additional comments
Comments/ Resolution:	Date/fille.
Project Manager Review: R A R	for The Date: 11 John
i fojoot munuger neview.	



