

LETTER OF TRANSMITTAL

To: Ms. Nancy Ryan
 c/o Mr. Chue Yee Yang, RR Program Assistant
 Wisconsin Department of Natural Resources
 2300 N. Dr. Martin Luther King Jr. Drive
 Milwaukee, WI 53212

From: Adam J. Roder
 The Sigma Group, Inc.
 1300 W. Canal Street
 Milwaukee, WI 53233

Date: September 6, 2018
 Site Name: MSOE Diercks Computational Science Hall
1025 N. Milwaukee Street
 Address: Milwaukee, WI 53202
 FID# 241343410
 BRRTS # _____

Please check the type(s) of documents you have enclosed. Submittals will be tracked and filed based on the information you provide. **Include the FID and BRRTS numbers which have been assigned to this site, and identify the intent of the document(s) you are submitting in order to speed processing.** Please attach any required fees to this checklist.

IS THIS RELEASE PECFA-ELIGIBLE?		
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> UNKNOWN AT THIS TIME

Type of Submittal:
 LUST ERP VPLE OTHER

CHECK	Agreements	FEE
	Tax assignment agreement - ss.75.106(2)(d) & 292.55	\$700
	Tax cancellation agreement - ss. 75.106(2)(d) & 292.55	\$700
	Negotiated agreements - s. 292.11(7)(d)2	\$1,400
	Technical Assistance (s. 292.55)	FEE
X	NR 708 No Further Action Letter - <i>Fee not included as written response not needed</i>	\$350
	NR 716 No Further Investigation	\$700
	NR 716 Site Investigation Workplan	\$700
	NR 716 Site Investigation Report	\$1,050
	NR 720 Soil Cleanup Standards/Reports	\$1,050
	NR 722 Remedial Action Options Report	\$1,050
	NR 724 Remedial Design Report	\$1,050
	NR 724 Operation and Maintenance Report	\$425
	NR 724 Construction Documentation Reports	\$350
	NR 724 Long-Term Monitoring Plan	\$425
	NR 726 Case Closure Action	\$1,050
	NR 506 Exemption for building on a historic waste site	\$700
	Other Technical Assistance	\$700
	Liability Clarification Letters	FEE
	s. 292.13(3) Off-Site Exemption Letters	\$700
	s. 292.55 Lease Letters - Single Properties	\$700
	s. 292.55 Lease Letters - Multiple Properties	\$1,400
	s. 292.55 General Liability Clarification Letters	\$700
	s. 292.21(1)(c)1.d. Lender Assessments	\$700
	Department Database Fees (ss. 292.12 and 292.	FEE
	Sites with groundwater contamination that attains or exceeds ch. NR 140	\$350
	Sites with soil contamination that attains or exceeds ch. 720 RCLs	\$300
	Sites not otherwise addressed in this schedule, where the department imposes any other limitation or condition in accordance with s. 292.12(2)	\$350
	Cases submitted for closure with monitoring wells not properly abandoned, without residual groundwater contamination	\$350
	Modification or removal of a site or property from the database	\$1,050
	Other / Miscellaneous	

September 6, 2018

Project Reference #17076

Ms. Nancy Ryan
c/o Mr. Chue Yee Yang, Environmental Program Associate
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

**Subject: NR 708.09 No Further Action Request for Tank System Site Assessment
MSOE Diercks Computational Science Hall Development
1025 N. Milwaukee Street, Milwaukee, WI 53202
WDNR FID #241343410**

Dear Ms. Ryan:

As discussed on September 5th, The Sigma Group, Inc. (Sigma) has prepared this letter on behalf of Milwaukee School of Engineering (MSOE) to specifically request that the residual petroleum impacts associated with the recently-submitted *Tank System Site Assessment Report*¹ be granted No Further Action status under NR 708.09. MSOE does not need to receive a written response letter from the Wisconsin Department of Natural Resources (WDNR) for this matter, so it is understood that this No Further Action status will only be listed on the WDNR's BRRTS on the Web online database. WDNR Form 4400-237 is also attached to supplement this No Further Action request.

Please contact Sigma if you have any questions about this submittal or the project in general.

Sincerely,

THE SIGMA GROUP, INC.



Adam J. Roder, P.E., P.G.
Senior Engineer

Enclosures:

WDNR Form 4400-237

cc: Dr. Blake Wentz - MSOE (via email: wentz@msoe.edu)

¹ *Tank System Site Assessment Report, MSOE Diercks Computational Science Hall Development, 1025 N. Milwaukee Street, Milwaukee, WI 53202, WDNR FID #241343410* by Sigma (dated August 29, 2018)

Notice: Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

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Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name Wentz	First Blake	MI	Organization/ Business Name Milwaukee School of Engineering
Mailing Address 1025 N. Broadway			City Milwaukee
			State WI
			ZIP Code 53202
Phone # (include area code) (414) 277-2204	Fax # (include area code)	Email wentz@msoe.edu	

The requester listed above: (select all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Is currently the owner | <input type="checkbox"/> Is considering selling the Property |
| <input type="checkbox"/> Is renting or leasing the Property | <input type="checkbox"/> Is considering acquiring the Property |
| <input type="checkbox"/> Is a lender with a mortgagee interest in the Property | |
| <input type="checkbox"/> Other. Explain the status of the Property with respect to the applicant: | |

Contact Information (to be contacted with questions about this request)

Select if same as requester

Contact Last Name Wentz	First Blake	MI	Organization/ Business Name Milwaukee School of Engineering
Mailing Address 1025 N. Broadway			City Milwaukee
			State WI
			ZIP Code 53202
Phone # (include area code) (414) 277-2204	Fax # (include area code)	Email wentz@msoe.edu	

Environmental Consultant (if applicable)

Contact Last Name Roder	First Adam	MI J	Organization/ Business Name The Sigma Group, Inc.
Mailing Address 1300 W. Canal Street			City Milwaukee
			State WI
			ZIP Code 53233
Phone # (include area code) (414) 643-4134	Fax # (include area code) (414) 643-4210	Email aroder@thesigmagroup.com	

Section 2. Property Information

Property Name MSOE Diercks Computational Science Hall Development	FID No. (if known) 241343410
BRRTS No. (if known)	Parcel Identification Number 3930411000
Street Address 1025 N. Milwaukee Street	City Milwaukee
State WI	
ZIP Code 53202	
County Milwaukee	Municipality where the Property is located <input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Milwaukee
Property is composed of: <input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels	
Property Size Acres 1	

Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

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1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

- No Yes

Date requested by: _____

Reason: _____

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

- No. Include the fee that is required for your request in Section 3, 4 or 5.
 Yes. Do not include a separate fee. This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;
Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - Include a fee of \$350. Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - Include a fee of \$700. *Fee not included. MSOE does not need a written response letter.*
- Review of Site Investigation Report - NR 716.15, [137] - Include a fee of \$1050.
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - Include a fee of \$1050.
- Review of a Remedial Action Options Report - NR 722.13, [143] - Include a fee of \$1050.
- Review of a Remedial Action Design Report - NR 724.09, [148] - Include a fee of \$1050.
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - Include a fee of \$350
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - Include a fee of \$425.
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - Include a fee of \$425.

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - Include a fee of \$700.
- Hazardous Waste Determination - Include a fee of \$700.
- Other Technical Assistance - Include a fee of \$700. Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. Include a fee of \$1050, and:
- Include a fee of \$300 for sites with residual soil contamination; and
- Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

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Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. **[Numbers in brackets are for DNR Use]**

"Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the real Property, and/or the personal Property and fixtures;
- (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
- (3) the date the environmental assessment was conducted by the lender;
- (4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
- (5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
- (6) a copy of the Property deed with the correct legal description; and,
- (7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
- (8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292.21(1)(c)2.,h.-i., Wis. Stats.:
 - h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
 - i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

"Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the Property;
- (2) the date of Property acquisition by the representative;
- (3) the means by which the Property was acquired;
- (4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;
- (5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and
- (6) a copy of the Property deed with the correct legal description.

Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

- hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];
- Perceived environmental contamination - [649];
- hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or
- solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of \$700, a summary of the environmental liability clarification being requested, and the following:**

- (1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).
- (2) current and proposed ownership status of the Property;
- (3) date and means by which the Property was acquired by the LGU, where applicable;
- (4) a map and the ¼, ¼ section location of the Property;
- (5) summary of current uses of the Property;
- (6) intended or potential use(s) of the Property;
- (7) descriptions of other investigations that have taken place on the Property; and
- (8) (for solid waste clarifications) a summary of the license history of the facility.

**Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request**

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Section 4. Request for Liability Clarification (cont.)

Lease liability clarification - s. 292.55, Wis. Stats. [646]

❖ **Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:**

- (1) a copy of the proposed lease;
- (2) the name of the current owner of the Property and the person who will lease the Property;
- (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
- (4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
- (5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
- (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

❖ **Include a fee of \$700 and an adequate summary of relevant environmental work to date.**

No Action Required (NAR) - NR 716.05, [682]

❖ **Include a fee of \$700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

❖ **Include a fee of \$700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

It is requested that residual petroleum impacts documented in Sigma's August 22, 2018 "Tank System Site Assessment Report..." be granted No Further Action status under NR 708.09. MSOE does not need to receive a written response letter from the WDNR for this matter, so it is understood that this No Further Action status will only be listed on the WDNR's BRRTS on the Web online database.

Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

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Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/lgu.html#tabx4.

Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

❖ Include a fee of \$700, and the information listed below:

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description; and,
- (3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf).

Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

❖ Include a fee of \$700, and the information listed below:

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description; and,
- (3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf).

Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

❖ Include a fee of \$1400, and the information listed below:

- (1) a draft schedule for remediation; and,
- (2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

Phase I Environmental Site Assessment Report - Date: _____

Phase II Environmental Site Assessment Report - Date: _____

Legal Description of Property (required for all liability requests and specialized agreements)

Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

Groundwater Soil Sediment Other medium - Describe: _____

Date of Collection: _____

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: TSSA report previously submitted to WDNR in August 2018

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

Yes - Date (if known): _____

No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

**Technical Assistance, Environmental Liability
Clarification or Post-Closure Modification Request**

Form 4400-237 (R 9/15)

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Section 7. Certification by the Person who completed this form

I am the person submitting this request (requester)

I prepared this request for: Blake Wentz (MSOE)
Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Adam J. Rader
Signature

9/6/18
Date Signed

Senior Engineer
Title

414-643-4134
Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a **DNR regional brownfields specialist** with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only

Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

LETTER OF TRANSMITTAL

To: Ms. Nancy Ryan
 c/o Mr. Chue Yee Yang, RR Program Assistant
 Wisconsin Department of Natural Resources
 2300 N. Dr. Martin Luther King Jr. Drive
 Milwaukee, WI 53212

From: **John T. Holcombe**
 The Sigma Group, Inc.
 1300 W. Canal Street
 Milwaukee, WI 53233

Date: August 29, 2018

Site Name: MSOE Diercks Computational Science Hall
 1025 N. Milwaukee Street

Address: Milwaukee, WI 53202

FID# 241343410

BRRTS # 02-41-581016

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IS THIS RELEASE PECFA-ELIGIBLE?		
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> UNKNOWN AT THIS TIME

Type of Submittal:

LUST ERP VPLE OTHER

CHECK Agreements		FEE
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	Cases submitted for closure with monitoring wells not properly abandoned, without residual groundwater contamination	\$350
	Modification or removal of a site or property from the database	\$1,050
	Other / Miscellaneous	
X	Submittal of TSSA Report and Release Notification	No Fee

August 29, 2018

Project Reference #17076

Ms. Nancy Ryan
c/o Mr. Chue Yee Yang, Environmental Program Associate
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

**Subject: Tank System Site Assessment Report
MSOE Diercks Computational Science Hall Development
1025 N. Milwaukee Street, Milwaukee, WI 53202
WDNR FID #241343410**

Dear Ms. Ryan:

On behalf of Milwaukee School of Engineering (MSOE), The Sigma Group, Inc. (Sigma) is submitting the attached *Tank System Site Assessment (TSSA) Report* to the Wisconsin Department of Natural Resources (WDNR) for a 500-gallon fuel oil underground storage tank (UST) discovered at the above-referenced property (the "Site"). The tank was discovered in June 2018 during mass excavation work for the construction of the new Milwaukee School of Engineering (MSOE) building with an underground parking level; subsurface impacts previously identified for this project are tracked by the Wisconsin Department of Natural Resources (WDNR) under BRRTS #02-41-581016. Based on the TSSA results, minor petroleum hydrocarbon impacts were identified at the east end of the tank basin, with a total trimethylbenzene concentration slightly above the Groundwater Pathway Residual Contaminant Level (RCL), but below the Non-Industrial Direct Contact RCL. All other petroleum hydrocarbon concentrations were reported below the laboratory detection limits and/or RCLs.

The detected petroleum hydrocarbons adjacent to this former UST constitute a release, so the WDNR's *Notification for Hazardous Substance Discharge* form 4400-225 has been submitted concurrently with the TSSA report in accordance with s. 292.11 Wis. Stats. However, the TSSA soil data suggests that this was a minor release, and subsequent soil excavation associated with the mass excavation work has already removed the residual soil impacts as described within the report. Therefore, Sigma and MSOE request that the WDNR concur a "No Action Required" designation is appropriate for this project.

Please contact Sigma if you have any questions or comments about the current submittals or the project in general.

Sincerely,

THE SIGMA GROUP, INC.



John T. Holcombe, P.E.
Project Engineer



Adam J. Roder, P.E., P.G.
Senior Engineer

Enclosures:

Notification for Hazardous Substance Discharge (Non-Emergency Only)
Tank System Site Assessment Report...

cc: Dr. Blake Wentz - MSOE (via email: wentz@msoe.edu)

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

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

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (check one):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: _____

ATTN DNR: **R & R Program Associate**

Date DNR Notified: **08/29/2018**

1. Discharge Reported By

Name	Firm	Phone Number (include area code)
Adam Roder	The Sigma Group, Inc.	(414) 643-4200
Mailing Address	Email	
1300 W. Canal Street, Milwaukee, WI 53233	aroder@thesigmagroup.com	

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

MSOE Diercks Computational Science Hall Development

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

1025 N. Milwaukee Street

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

Milwaukee

County	Legal Description:	WTM:
Milwaukee	NW ¼ of NW ¼ Section 28, Town 07 N, Range 22 <input checked="" type="radio"/> E <input type="radio"/> W	X 690460 Y 287825

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Milwaukee School of Engineering

A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review [DNR publication RR-055](#); and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using [DNR Form 4400-237](#).

Contact Person Name (if different)	Phone Number	Email	
Dr. Blake Wentz	(414) 277-2204	wentz@msoe.edu	
Mailing Address	City	State	ZIP Code
1025 N. Broadway	Milwaukee	WI	53202

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email	
Mailing Address	City	State	ZIP Code

(continued)

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> VOCs
<input type="checkbox"/> PCE
<input type="checkbox"/> TCE
<input type="checkbox"/> Other Chlorinated
<input type="checkbox"/> Diesel
<input checked="" type="checkbox"/> Fuel Oil
<input type="checkbox"/> Gasoline
<input type="checkbox"/> Hydraulic Oil
<input type="checkbox"/> Jet Fuel | <i>(VOCs continued)</i>
<input type="checkbox"/> Mineral Oil
<input type="checkbox"/> Waste Oil
<input type="checkbox"/> Petroleum-Unknown Type
<input type="checkbox"/> PAHs
<input type="checkbox"/> PCBs
<input type="checkbox"/> Cyanide
<input type="checkbox"/> Leachate
<input type="checkbox"/> Manure | <input type="checkbox"/> Metals
<input type="checkbox"/> Arsenic
<input type="checkbox"/> Chromium
<input type="checkbox"/> Lead
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Pesticides: _____
<input type="checkbox"/> Fertilizer: _____
<input type="checkbox"/> RCRA Hazardous Waste: _____
<input type="checkbox"/> Other: _____
<input type="checkbox"/> Unknown |
|---|--|---|

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- | | | |
|--|---|--|
| <input type="checkbox"/> Air Contamination | <input type="checkbox"/> Fire Explosion Threat | <input checked="" type="checkbox"/> Soil Contamination |
| <input type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum) | <input type="checkbox"/> Free Product | <input type="checkbox"/> Soil Gas Contamination |
| <input type="checkbox"/> Contamination in Fractured Bedrock | <input type="checkbox"/> Groundwater Contamination | <input type="checkbox"/> Sub-slab Vapor Contamination |
| <input type="checkbox"/> Contamination Within 1 Meter of Bedrock | <input type="checkbox"/> Off-Site Contamination | <input type="checkbox"/> Surface Water Contamination |
| <input type="checkbox"/> Contaminated Private Well | <input type="checkbox"/> Sanitary Sewer Contamination | <input type="checkbox"/> Within 100 ft of Private Well |
| <input type="checkbox"/> Contaminated Public Well | <input type="checkbox"/> Storm Sewer Contamination | <input type="checkbox"/> Within 1000 ft of Public Well |
| <input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Sediment Contamination | |
| | Other (specify): _____ | |

Contamination was discovered as a result of:

- Tank closure assessment
 Site assessment
 Other - Describe: _____
 Date
 Date
 Date

Lab results: Lab results will be faxed upon receipt Lab results are attached

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

Lab results included with TSSA report submitted concurrently with this release notification form.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:

- | Source | Cause |
|---|--|
| <input checked="" type="checkbox"/> Tank | <input type="checkbox"/> Spill |
| <input type="checkbox"/> Piping | <input type="checkbox"/> Overfill |
| <input type="checkbox"/> Dispenser | <input type="checkbox"/> Corrosion |
| <input type="checkbox"/> Submersible Turbine Pump | <input type="checkbox"/> Physical or Mechanical Damage |
| <input type="checkbox"/> Delivery Problem | <input type="checkbox"/> Installation Problem |
| | <input type="checkbox"/> Other (does not fit any of above) |
| <input type="checkbox"/> Does not apply. | <input checked="" type="checkbox"/> Unknown |
| <input type="checkbox"/> Other (specify): _____ | |

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

- Northeast Region (FAX: 920-662-5413); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov**
 Brown, Calumet, Door, Fond du Lac (except City of Waupun - see South Central Region), Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties
- Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov**
 Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties
- South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov**
 Columbia, Dane, Dodge, Fond du Lac (City of Waupun only), Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties
- Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov**
 Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Adam Roder The Sigma Group, Inc.

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West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

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

TANK SYSTEM SITE ASSESSMENT REPORT

UNDERGROUND STORAGE TANK CLOSURE
MSOE DIERCKS COMPUTATIONAL SCIENCE HALL
1025 N. MILWAUKEE STREET
MILWAUKEE, WISCONSIN 53202

Prepared for:

DR. BLAKE WENTZ
MILWAUKEE SCHOOL OF ENGINEERING
1025 N. BROADWAY
MILWAUKEE, WI 53202

Prepared by:



1300 West Canal Street
Milwaukee, WI 5323
414-643-4200
FAX: 414-643-4210

Sigma Project No. 17076

August 29, 2018

John T. Holcombe, P.E.
Project Engineer

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Geosciences Group Leader

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- B. Photo-Documentation of UST Removal
- C. Future Environmental Waste Transportation Manifest
- D. TSSA Form B
- E. TSSA Soil Laboratory Analytical Report

TANK SYSTEM SITE ASSESSMENT REPORT
UNDERGROUND STORAGE TANK CLOSURE
MSOE DIERCKS COMPUTATIONAL SCIENCE HALL
1025 N. MILWAUKEE STREET
MILWAUKEE, WISCONSIN 53202

Sigma Project No. 17076

AUGUST 2018

1.0 INTRODUCTION

The Sigma Group, Inc. (Sigma), on behalf of Milwaukee School of Engineering (MSOE), has prepared this Tank System Site Assessment (TSSA) report following the removal of one 500-gallon fuel oil underground storage tank (UST) at the property located at 1025 N. Milwaukee Street, Milwaukee, Wisconsin (the "Site"). A Site Location Map is presented as **Figure 1**. The TSSA was performed in accordance with Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) regulations and in concert with Chapter ATCP 93 Flammable, Combustible, and Hazardous Liquids code to assess and report suspected or obvious releases and/or leaks from the UST system. This report presents the results of the TSSA including Site background, field observations, soil sample collection, and analytical test results.

2.0 BACKGROUND

2.1 Property Description

The Site consists of a rectangular shaped parcel of land with an area of approximately 1.27 acres located at the northwest corner of E. State Street and N. Milwaukee Street. The Site is currently under construction for the new MSOE Dierks Computational Science Hall. The Site has been primarily used for residential and institutional purposes in the past, including a church, Jewish community center, electrical contractor, residences, and educational buildings. A review of the City of Milwaukee Property Assessment web page indicates that the Property is zoned C9D(A): Central Business - Civic Activity. Property features and the approximate property boundary are provided in the Site Plan Map provided as **Figure 2**.

2.2 UST Discovery

On June 14, 2018, during excavation work for an earth retention system installed along the east edge of the Site (part of an overall mass excavation to accommodate the construction of a future MSOE building with an underground parking level), a concrete slab was uncovered which included an abandoned electrical line, a steam line, and an UST filled with oily water. Work was stopped in the area until the UST could be properly assessed, abandoned, and removed.

3.0 UST REMOVAL FIELD OBSERVATIONS AND DOCUMENTATION

3.1 Project Team

The UST removal activities were coordinated by Sigma. The project team consisted of the following contractors:

Consultant: The Sigma Group, Inc.
1300 W. Canal Street
Milwaukee, WI 53233

Remover/Cleaner: Southeast Tank, LLC
PO Box 433
Muskego, WI 53150

Laboratory Services: Synergy Environmental Lab, Inc.
1990 Prospect Court
Appleton, WI 54914

Waste Disposal: Future Environmental
3240 W. Elm Road
Franklin, WI 53132

3.2 UST Removal and Observations

On June 22, 2018, Sigma completed TSSA activities. Mr. John T. Holcombe, P.E. (TSSA Certification #402896) monitored Site activities. The UST was removed by Southeast Tank, LLC located in Franklin, Wisconsin with Remover/Cleaner services provided Mr. Brian James (Certification #401529). Mr. Robert McInnes (Inspector Certification #411415) from the City of Milwaukee completed the inspection of the UST abandonment activities.

Observations made by Sigma during these activities are summarized below:

- During the morning of June 22nd, the UST was opened and 500 gallons of residual fuel oil, oily water, and sludge were pumped from the UST by Future Environmental and transported off-site for disposal. A visual inspection of the UST interior found no pitting or corrosion.
- No remnant piping associated with the UST was discovered during the tank removal process.
- Soil observed during the UST removal consisted of 3 inches of asphalt (former parking lot) over 1 to 2 feet of granular fill, followed by brown gravelly and silty sand. Backfill around the USTs consisted of brown medium sand with some gravel and silt.
- Groundwater was not observed during the TSSA activities. Based on water levels in former monitoring well MW-1 located near the UST, which was installed as part of subsurface investigation work completed by Sigma at the Site (associated with open BRRTS #02-41-581016), groundwater is approximately 20 to 21 feet below ground surface (bgs).

A copy of a completed Tank System Service and Closure Assessment Report (Part A) and the Underground Flammable/Combustible/Hazardous Liquid Storage Tank Registration (Form TW-WM-137) are provided as **Appendix A**. A visual inspection of the UST indicated that the tank was in good condition with no noticeable pitting or corrosion. Photo-documentation of the UST removal are provided as **Appendix B**.

4.0 WASTE MANAGEMENT

4.1 Tank Content Removal and Disposal

Future Environmental pumped and disposed of 500-gallons of residual fuel oil, oily water, and sludge from the UST. A copy of the transportation manifest for off-site disposal is provided as **Appendix C**.

The steel tank shell was crushed and disposed of at Waste Management's Orchard Ridge Recycling and Disposal Facility (RDF) in Menomonee Falls, Wisconsin with other jobsite waste materials.

5.0 RESULTS OF TSSA SOIL SAMPLES

5.1 Soil Sample Collection and Analysis

Following the completion of the UST removal activities, Sigma collected a total of 6 soil samples from beneath the UST. Two samples collected beneath the UST were located on the east and west ends of the tank directly under the apparent piping penetrations of the top of the tank. An additional four soil samples were collected from the sidewalls of the UST excavation. The approximate soil sample locations are provided on **Figure 3**. TSSA Part B is provided as **Appendix D**.

The soil samples collected by Sigma were placed in laboratory-supplied containers, placed on ice in a cooler, and transported with a chain-of-custody form to Synergy Environmental Lab, Inc. The soil samples were submitted for laboratory analysis of petroleum volatile organic compounds (PVOCs) and naphthalene.

5.2 Soil Sample Results

The laboratory analysis results from soil samples collected at the Site were compared to Groundwater Pathway Residual Cleanup Levels (RCLs) and Non-Industrial Direct Contact RCLs. A review of the PVOC and naphthalene analysis results indicate that all PVOC concentrations detected are below the Groundwater Pathway RCLs and the Non-Industrial Direct Contact RCLs, except for trimethylbenzenes in sample UST-4, 3 feet bgs on the east sidewall. The total trimethylbenzene concentration of 1.58 milligrams per kilogram (mg/kg) was slightly above the Groundwater Pathway RCL of 1.3787 mg/kg, but below the Non-Industrial Direct Contact RCLs. The TSSA soil sample analytical reports and chain-of-custody are provided as **Appendix E**. The TSSA analytical results are summarized in **Table 1**.

6.0 SUMMARY

Based on the information collected by Sigma during the completion of TSSA soil sampling activities, low-level petroleum hydrocarbon related constituents were detected in the east sidewall sample (UST-4) adjacent to the UST. The PVOC and naphthalene concentrations in the remaining TSSA soil samples were reported below the laboratory detection limits, or in a few instances at very low levels that were below applicable RCLs. Residual impacts associated with the UST were limited in degree and extent.

As part of the current mass soil excavation for the construction of a new MSOE building with an underground parking level, the soil surrounding this former UST - and nearly the entire Site - was removed for off-site disposal at Waste Management's Orchard Ridge RDF or at a WDNR pre-approved NR 718 disposal property (Lakefield Sand & Gravel). Soil in the vicinity of the UST was removed to a depth of approximately 16-feet bgs transported to the Orchard Ridge RDF as daily cover under profile DC129252WI such that no remaining impacts

directly associated with the UST will remain. Sidewall and bottom samples are in the process of being collected for the mass excavation and results will be reported in a future report under BRRTS #02-41-581016.

7.0 RECOMMENDATION FOR NO FURTHER RESPONSE ACTION

Review of the available site-specific information indicates that a hazardous substance discharge from the 500-gallon fuel oil UST has occurred. It is Sigma's opinion that the reporting requirements by the Site owner under the Wisconsin Hazardous Substance Spill Law, s. 292.11 Wis. Stats., are applicable to this release. However, soil impacts slightly above a Groundwater Pathway RCL were detected in only one sidewall sample and this soil, as well as the other soil surrounding the UST, has already been over-excavated as part of the overall Site construction work. Therefore, based on the criteria in s. NR 716.05(2)(a) and in s. NR 708.09(1) and (2), Wis. Adm. Code, Sigma is requesting that WDNR concur with a "No Further Response Action" determination for this UST release. No further risk to human health or the environment remains at the Site.

8.0 LIMITATIONS OF INVESTIGATION

This report was prepared under the constraint of cost, time, and scope of work, and reflects an assessment and evaluation that is based on data collected from potential areas of concern at the time of the evaluation. Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as the conclusions and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalid wholly or partially by changes outside our control.

A subsurface exploration was performed and is presented in this report. However, subsurface exploration cannot totally reveal what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers, which are present in the subsurface, may not be noted. This report is issued with understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies), if warranted.

Table

Table 1
TSSA Soil Analytical Results
Diercks Computational Science Hall - 1025 N. Milwaukee Street, Milwaukee, Wisconsin
Sigma Project No. 17076

Soil Sample Location:		UST-1	UST-2	UST-3	UST-4	UST-5	UST-6	Groundwater Pathway RCL ⁴	Non-Industrial Direct Contact RCL ⁵	Industrial Direct Contact RCL ⁶
Sample Depth (feet bgs):		5 (bottom)	5 (bottom)	3 (sidewall)	3 (sidewall)	3 (sidewall)	3 (sidewall)			
Sample Collection Date:		6/22/18	6/22/18	6/22/18	6/22/18	6/22/18	6/22/18			
Unsaturated/Smear Zone (U) or Saturated (S):		U	U	U	U	U	U			
Photoionization Detector	ppm	0	0	0	7.4	0	0	NS	NS	NS
PVOCs + Naphthalene										
Benzene	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0051	1.6	7.07
Ethylbenzene	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.57	8.02	35.4
Methyl-tert-butyl-ether	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	63.8	282
Naphthalene	mg/kg	<0.025	0.107	0.054 "J"	<0.025	<0.025	<0.025	0.6582	5.52	24.1
Toluene	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	1.1072	818	818
1,2,4-Trimethylbenzene	mg/kg	<0.025	<0.025	<0.025	1.06	0.061	<0.025	1.3787	219	219
1,3,5-Trimethylbenzene	mg/kg	<0.025	<0.025	<0.025	0.52	<0.025	<0.025		182	182
Xylenes (total)	mg/kg	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	3.96	260	260

- Notes:
1. Unsaturated/smear zone versus saturated soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, or (2) soil moisture conditions recorded on soil boring logs during drilling
 2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
 3. NA = not analyzed
 4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated June 2018) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
 5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated June 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
 6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated June 2018) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
 7. NS = no standard established
 8. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
 9. Exceedances:
 - BOLD** = Concentration exceeds Groundwater Pathway RCL
 - [] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
 - { } = Concentration exceeds Industrial Direct Contact RCL (any depth)

Figures

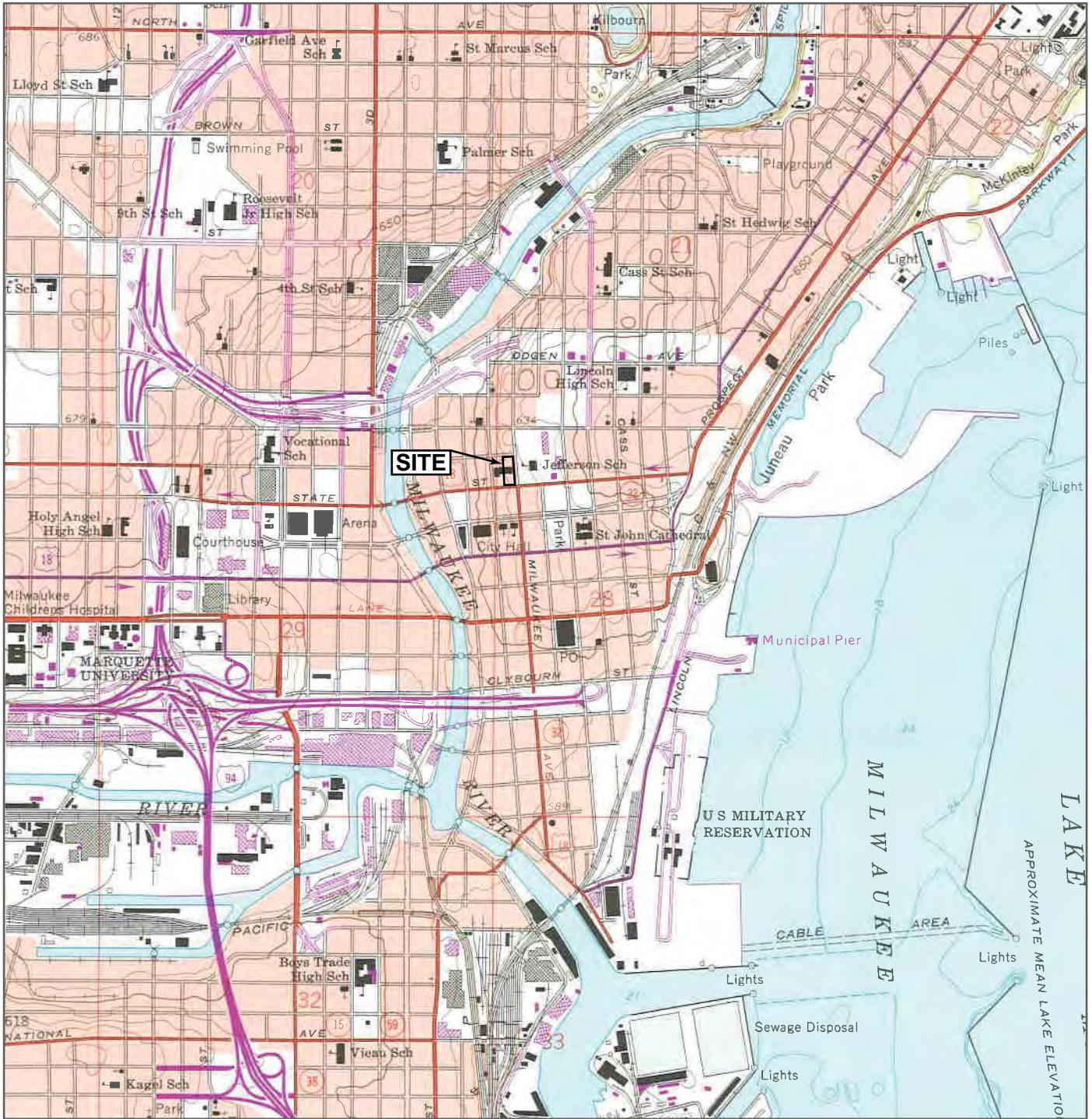
Date: 3/5/2018

Created By: AJR

Filename: 17076 Site Loc Map.pl

Directory: 060 CAD / E - Env

Project: 17076



SCALE: 1" = 2,000 FEET

Located in the Northwest 1/4 of the Northwest 1/4 of Section 28, T7N, R22E
 USGS Milwaukee Quadrangle (1958, revised 1971)
 7.5 minute, 1 : 24,000 Topographic Map Collection

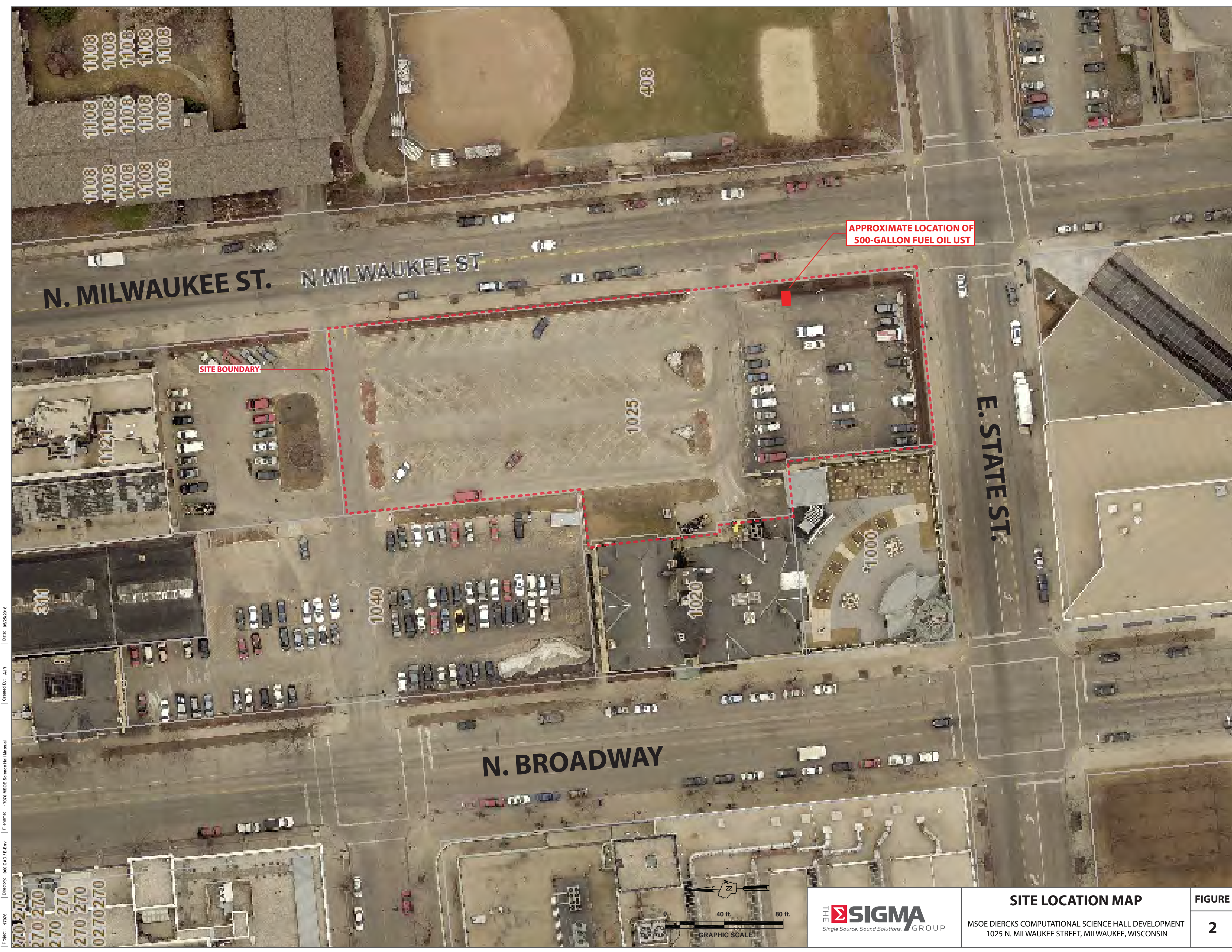


SITE LOCATION MAP

MSOE DIERCKS COMPUTATIONAL SCIENCE HALL DEVELOPMENT
 1025 N. MILWAUKEE STREET, MILWAUKEE, WISCONSIN

FIGURE

1



N. MILWAUKEE ST.

N MILWAUKEE ST

E. STATE ST.

N. BROADWAY

APPROXIMATE LOCATION OF
500-GALLON FUEL OIL UST

SITE BOUNDARY



SITE LOCATION MAP
MSOE DIERCKS COMPUTATIONAL SCIENCE HALL DEVELOPMENT
1025 N. MILWAUKEE STREET, MILWAUKEE, WISCONSIN

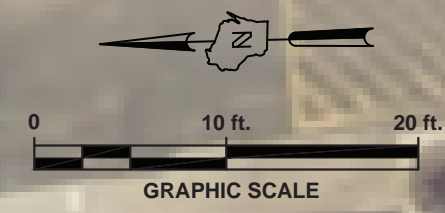
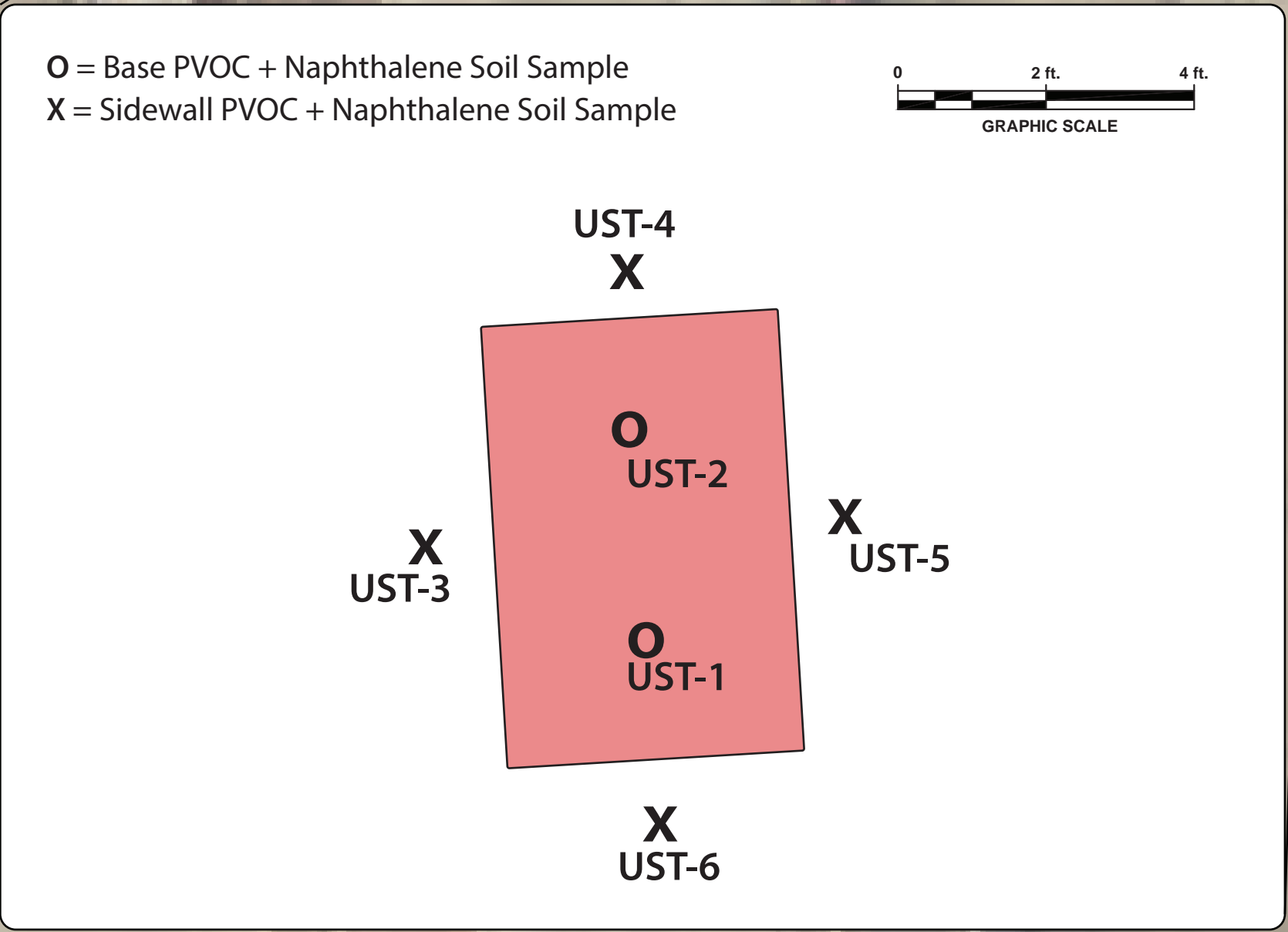
FIGURE
2

Project: 17076 | Directory: 060 CAD / E-Env | Filename: 17076 MSOE Science Hall Maps.ai | Created By: AJR | Date: 06/25/2016

N. MILWAUKEE ST.

**APPROXIMATE LOCATION OF
500-GALLON FUEL OIL UST**

SITE BOUNDARY



TSSA SOIL SAMPLE LOCATION MAP
MSOE DIERCKS COMPUTATIONAL SCIENCE HALL DEVELOPMENT
1025 N. MILWAUKEE STREET, MILWAUKEE, WISCONSIN

FIGURE
3

Project: 17076 | Directory: 060 CAD / E/Env | Filename: 17076 MSOE Science Hall Maps.ai | Created By: AJR | Date: 09/14/2016

Appendix A

**Tank System Service and Closure Assessment Report (Part A)
and Underground Flammable/Combustible/Hazardous Liquid Storage Tank Registration
(Form TW-WM-137)**



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 P.O. Box 7837, Madison, WI 53707-7837
 (608) 224-4942

Wis. Admin. Code §ATCP 93.560

FOR OFFICE USE ONLY

TANK-18-00038

TANK SYSTEM SERVICE AND CLOSURE ASSESSMENT REPORT

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Complete One Form for Each System Service Event

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX

CHECK ONE: UNDERGROUND ABOVEGROUND

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

A. TYPE OF SERVICE CLOSURE REPAIR/UPGRADE CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

Remote fill Tank Piping Transition/containment sump Spill bucket Dispenser

B. IDENTIFICATION

OWNER INFORMATION

OWNER NAME Milwaukee School of Engineering	CONTACT NAME Blake Wentz	TITLE
MILING ADDRESS 1025 N. Broadway	<input checked="" type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE Milwaukee	STATE ZIP WI 53202
TELEPHONE: (44) 277-2204	E-MAIL wentz@msoe.edu	

SITE INFORMATION

FACILITY NAME MSOE <i>Drinks Computational Science Hall</i>		
SITE ADDRESS (Not PO Box) 1025 N Milwaukee Street	<input checked="" type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE Milwaukee	STATE ZIP WI 53202

SERVICE CONTRACTOR INFORMATION

PRIMARY SERVICE CONTRACTOR Section A Above Southeast Tank LLC	TELEPHONE: (414) 257 - 0030	CELL: (414) 588 - 0501
STREET ADDRESS W150S8234 Harvest Ct	<input checked="" type="checkbox"/> CITY <input type="checkbox"/> TOWN <input type="checkbox"/> VILLAGE Muskego	STATE ZIP WI 53150

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

a	b	c	d	e	f	g	h	
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection, etc)?	If "Yes" to "g", Then Specify Source and Cause of Release ⁵	
							Source of Release ³	Cause of Release ⁴
N/A	P	Steel	Unknown	500	FO	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		
						<input type="checkbox"/> Yes <input type="checkbox"/> No		

- Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place
- 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):

3. CAS number(s):

4. Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other, UNK = Unknown

5. Cause of release:
 S = spill, O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown

6. Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 5 days in advance of closure date. Yes No

All local permits were obtained before beginning closure. Yes No NA

UST Form TR-WM-137 or AST Form TR-WM-118 filed by owner with the DATCP indicating closure. Yes No NA

NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D.1 TEMPORARILY OUT-OF-SERVICE

	Remover Verified	Inspector Verified	Inspector Not Present	NA
1. Product removed.				
a. Product lines drained into tank (or other container) and liquid removed, and	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Inventory form filed indicating temporarily out-of-service (TOS) closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

D.2. CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
a. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Piping disconnected from tank and removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. Vent lines left connected until tanks purged.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

2. Specific Closure-by-Removal Requirements				
a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. Tank cleaned before being removed from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. Tank labeled in full compliance with API 1604 after removal but before being moved from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; MONTH/DAY/YEAR OF REMOVAL

d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
e. Site security is provided while the excavation is open.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3. Specific Closure-In-Place Requirements	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
---	---	---	--------------------------	-------------------------------------

NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.

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

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 5 days in advance of service date. Y N NA

All local permits were obtained before beginning service. Y N NA

Form TR-WM-137 or 0 TR-WM-118 filed by owner with the DATCP indicating change-in-service. Y N NA

F. METHOD OF VAPOR FREEING OF TANK

Displacement of vapors by eductor or diffused air blower.

Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.

Inert gas using dry ice or liquid carbon dioxide.

Inert gas using CO2 or N2 **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.

Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

Readings of 10% or less of the lower flammable range (LEL) or <5% oxygen obtained before removing tank from ground.

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

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

TANK-18-00038

G. REMOVER/CLEANER INFORMATION

Brian James		401529	
REMOVER/CLEANER NAME (PRINT):	REMOVER/CLEANER SIGNATURE	CERTIFICATION NO	DATE SIGNED

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with ATCP 93.

Company expected to perform soil contamination assessment	<i>The Sigala Group</i>
---	-------------------------

H. INSPECTOR INFORMATION

<i>ROBERT McINNES</i>		411-415	
INSPECTOR NAME (PRINT):	INSPECTOR SIGNATURE	INSPECTOR CERTIFICATION NO	LPO AGENCY #

<i>4020 CITY OF MILWAUKEE</i>	<i>(414) 286-2518</i>	<i>6-22-18</i>
FDID # FOR LOCATION WHERE INSPECTION PERFORMED	INSPECTOR TELEPHONE:NUMBER	DATE SIGNED

INSPECTOR NOTES:



Wisconsin Department of Agriculture, Trade and Consumer Protection
 Bureau of Weights and Measures
 PO Box 7837 Madison, WI 53707-7837
 (608) 224-4942

FOR OFFICE USE ONLY

TDID#:

Reg Obj #:

Wis. Admin. Code §ATCP 93.140

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated above. Have you previously registered this tank by submitting a form? Yes No

If yes, are you correcting/updating information only? Yes No

This registration applies to a tank status that is (check one):

- In Use Abandoned with Product (empty) Closed - Filled with Inert Materials
 Newly Installed Abandon with Water Ownership Change (Indicate new owner name in block 2 - attach deed)
 Abandoned with Product Closed - Tank Removed Temporarily Out of Service - Provide Date:
 Fire Dept. providing fire coverage where tank is located: CITY TOWN VILLAGE MILWAUKEE

IDENTIFICATION (Please Print)

1. TANK SITE NAME MSOE DIERKS COMPUTATIONAL SCIENCE HALL		COUNTY MILWAUKEE	PHONE (N/A)
SITE STREET ADDRESS 1025 N MILWAUKEE STREET		<input checked="" type="checkbox"/> CITY <input type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF: MILWAUKEE	STATE ZIP WI 53202
2. TANK OWNER LEGAL NAME MILWAUKEE SCHOOL OF ENGINEERING		COUNTY MILWAUKEE	PHONE: Check <input type="checkbox"/> CELL or <input checked="" type="checkbox"/> LAND (414) 277 - 2204
MAILING ADDRESS 1025 N BROADWAY		<input checked="" type="checkbox"/> CITY <input type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF: MILWAUKEE	STATE ZIP WI 53202
3. PROPERTY OWNER NAME (if different from Tank Owner Legal Name #2)		COUNTY (if different from County #2)	
PROPERTY OWNER ADDRESS (if different from Site Street Address #1)		<input type="checkbox"/> CITY <input type="checkbox"/> VILLAGE <input type="checkbox"/> TOWN OF:	STATE ZIP WI
4. CLASS A NAME	DOB	CERTIFICATION: (Attach certificate)	
5. CLASS B NAME	DOB	CERTIFICATION: (Attach certificate)	

SITE ID:	FACILITY ID #	CUSTOMER ID #
Tank Capacity (gallons): 550	Tank Age (age or date installed): UNKNOWN	Vehicle fueling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

OCCUPANCY TYPE (check one) Refer to back
 Retail Fuel Sales Mercantile/Commercial Industrial Residential School Utility Government Fleet
 Agricultural (crop or livestock production) Backup or Emergency Generator Other (specify):

TANK CONSTRUCTION:
 Bare Steel Coated Steel Steel - Fiberglass Reinforced Plastic Composite
 Fiberglass Unknown Other (specify): Lined (date):
 Overfill Protection? Yes No
 Spill Containment? Yes No
 Tank Double Walled? Yes No

TANK CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

PRIMARY TANK LEAK DETECTION METHOD: Automatic tank gauging Interstitial monitoring Electronic Yes No Inventory control and tightness testing
 Manual tank gauging (only for tanks of 1,000 gallons or less) Statistical Inventory Reconciliation (SIR) Unknown

PIPING CONSTRUCTION: Single Wall Double Wall:
 Bare Steel Coated Steel Fiberglass Flexible Copper Unknown N/A Other:

PIPING CATHODIC PROTECTION: Sacrificial Anodes Impressed Current N/A

PRIMARY PIPING SYSTEM TYPE: Pressurized piping with A. Pump auto shutoff - ELLD B. Flow restrictor - MLLD Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

PIPING LEAK DETECTION METHOD: Interstitial monitoring Electronic Yes No Sump or cable sensor Yes No
 Tightness testing Electronic line monitor - ELLD SIR Not required Unknown

TANK CONTENTS (Current, or previous product (if tank now empty))
 Bio-Diesel: ___% Aviation Premix Fuel Oil Kerosene New Oil Gas-ethanol blend: ___% Diesel
 Waste/Used Motor Oil Used for Heating Hazardous Waste/Interface* Empty* New oil - Flash point less than 200°F
 Other (specify): Sand/Grave/Slurry* Unknown
 Chemical* Name CAS#

* NOT PECEFA eligible. Geo Latitude: Geo Longitude:

If Tank Closed, Abandoned or Out of Service: 06/22/2018 Has a site assessment been completed? (see reverse side for details) Yes No

TANK OWNER LEGAL NAME (please print) TANK OWNER E-MAIL
 Milwaukee School of Engineering (c/o Blake Wentz) wentz@msoe.edu

TANK OWNER SIGNATURE (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.) DATE:
 6/21/2018

Note: Refer to comments on reverse side of form.

Tank - 18-00038

Appendix B

Photo-Documentation of UST Removal



Photo 1: Cleaning and removing 500-gallons of fuel oil and wastewater from UST with Future Environmental vacuum truck. Photo taken along North Milwaukee Street looking southwest across the site. (Taken 06/22/2018)



Photo 2: Cleaning and removing 500-gallons of fuel oil and wastewater from UST with Future Environmental vacuum truck. Photo taken looking south across the eastern edge of the site. (Taken 06/22/2018)

SITE NAME: MSOE DIERCKS COMPUTATIONAL SCIENCE HALL

ADDRESS: 1025 N. MILWAUKEE STREET, MILWAUKEE, WISCONSIN



Photo 3: Cleaned UST awaiting removal. Looking east with North Milwaukee Street in background. (Taken 06/22/2018)



Photo 4: Cleaned UST awaiting removal. Looking west across the site from the east. Grohmann Museum and other MSOE buildings can be seen in the background. (Taken 06/22/2018)

SITE NAME: MSOE DIERCKS COMPUTATIONAL SCIENCE HALL

ADDRESS: 1025 N. MILWAUKEE STREET, MILWAUKEE, WISCONSIN



**Photo 5: Removal of UST with the help of an excavator. Photo looking north across the site.
(Taken 06/22/2018)**



**Photo 6: Purged and cleaned tank after removal. Photo looking north across the site.
(Taken 06/22/2018)**

SITE NAME: MSOE DIERCKS COMPUTATIONAL SCIENCE HALL

ADDRESS: 1025 N. MILWAUKEE STREET, MILWAUKEE, WISCONSIN

Appendix C

Future Environmental Waste Transportation Manifest

W27961

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

414 761 9421

4. Waste Tracking Number

0023581

5. Generator's Name and Mailing Address

Sigma/Southeast Tank
1025 N Milwaukee
Milwaukee, WI

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name

FUTURE ENVIRONMENTAL

U.S. EPA ID Number

WI0000122358

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

FUTURE ENVIRONMENTAL
3240 W ELM RD
FRANKLIN, WI 53132

U.S. EPA ID Number

WI0000122358

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No.

Type

1. NON HAZARDOUS, NON REGULATED BY DOT

Wastewater / Fuel

1

TT 500

6

2.

3.

4.

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name

Signature

Month Day Year

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

FUTURE INDUSTRIAL SERVICES, INC.

3240 W. ELM RD.
PHONE: 414-761-9421
www.futureenvironmental.com

FRANKLIN, WI 53132
FAX: 414-761-9542

WORK ORDER W 27961

DATE <i>6-22-18</i>	SHIFT # <i>1ST</i>
PO. #	START TIME <i>8:15 AM / 8:45 AM</i>
CONTACT	END TIME <i>9:30 AM / 1000 AM</i>

CUSTOMER <i>Sigma / Southeast Tank</i>
ADDRESS <i>1025 N. Milwaukee Milwaukee, WI</i>
PHONE

DESCRIPTION OF WORK
<i>Vac tank</i>

QTY.	MATERIAL	UNIT
<i>1</i>	<i>Vac truck</i>	<i>34</i>

MISCELLANEOUS CHARGES
<i># 0023581 500 g</i>

LABOR	HRS	RATE
<i>Warren B</i>		

[Signature]
CUSTOMER AUTHORIZED SIGNATURE

[Signature]
PROJECT SUPERVISOR SIGNATURE

Appendix D

TSSA Part B

Part B - To be completed by environmental professional - Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

SITE NAME - Note: SITE NAME and address MUST MATCH with Part A Section 1.

MSOE Dierks Computational Science Hall

SITE ADDRESS (Not PO Box)

1025 N. Milwaukee St

CITY TOWN VILLAGE

Milwaukee

STATE

WI

ZIP

53202

To determine if a TSSA is required, see ATCP 93 and section II part B of ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

If a TSSA is required, then follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS

1. Site Information

a. Has there been a previously documented release at this site? [X] Y [] N

If yes, provide the DATCP # _____ or DNR BRRT's # 02-41-581016

b. Number of active tanks at facility prior to completion of current services: USTs _____ ASTs _____

(NOTE 1: Do not include previously closed systems or system components.)

c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
I	6'	4'	5'

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

Do any of the following conditions exist in or about the excavation(s)?

- a. Stained soils: [] Yes [X] No
- b. Petroleum odor: [] Yes [X] No
- c. Water In excavation/trench: [] Yes [X] No
- d. Free product in the excavation/trench: [] Yes [X] No
- e. Sheen or free product on water: [] Yes [X] No

3. Geology/Hydrogeology

a. Depth to groundwater 20 feet b. Indicate type of geology² Granular/silty sand w/ gravel

4. Receptors

- a. Water supply well(s) within 250 feet of the facility? [] Yes [X] No If yes, specify: _____
- b. Surface water(s) within 1000 feet of the facility? [] Yes [X] No If yes, specify: _____

5. Sampling

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

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Refer to associated TSSA report for additional details.

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

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

SEE ATTACHMENTS

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

SEE ATTACHMENTS

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.

JOHN T HOLCOMBE
 TANK-SYSTEM SITE ASSESSOR NAME (PRINT):

J T Holcombe
 TANK-SYSTEM SITE ASSESSOR SIGNATURE

402896
 CERTIFICATION NO.

(414) 643-4200
 TANK-SYSTEM SITE ASSESSOR TELEPHONE NUMBER

7/10/2018
 DATE SIGNED

THE SIGMA GROUP
 COMPANY NAME

Appendix E

TSSA Soil Laboratory Analytical Report

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JT HOLCOMBE
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date 10-Jul-18

Project Name MSOE
Project # 17076

Invoice # E34849

Lab Code 5034849A
Sample ID UST-1
Sample Matrix Soil
Sample Date 6/22/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.1	%			1	5021		6/26/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		6/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		6/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		6/30/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		6/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		6/30/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		6/30/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		6/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		6/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		6/30/2018	CJR	1

Project Name MSOE
Project # 17076

Invoice # E34849

Lab Code 5034849B
Sample ID UST-2
Sample Matrix Soil
Sample Date 6/22/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.3	%			1	5021		6/26/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		6/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		6/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		6/30/2018	CJR	1
Naphthalene	0.107	mg/kg	0.022	0.07	1	GRO95/8021		6/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		6/30/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		6/30/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		6/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		6/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		6/30/2018	CJR	1

Lab Code 5034849C
Sample ID UST-3
Sample Matrix Soil
Sample Date 6/22/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.6	%			1	5021		6/26/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		6/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		6/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		6/30/2018	CJR	1
Naphthalene	0.054 "J"	mg/kg	0.022	0.07	1	GRO95/8021		6/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		6/30/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		6/30/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		6/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		6/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		6/30/2018	CJR	1

Project Name MSOE
Project # 17076

Invoice # E34849

Lab Code 5034849D
Sample ID UST-4
Sample Matrix Soil
Sample Date 6/22/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.3	%			1	5021		6/26/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		6/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		6/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		6/30/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		6/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		6/30/2018	CJR	1
1,2,4-Trimethylbenzene	1.06	mg/kg	0.019	0.06	1	GRO95/8021		6/30/2018	CJR	1
1,3,5-Trimethylbenzene	0.52	mg/kg	0.0096	0.031	1	GRO95/8021		6/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		6/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		6/30/2018	CJR	1

Lab Code 5034849E
Sample ID UST-5
Sample Matrix Soil
Sample Date 6/22/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		6/26/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		6/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		6/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		6/30/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		6/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		6/30/2018	CJR	1
1,2,4-Trimethylbenzene	0.061	mg/kg	0.019	0.06	1	GRO95/8021		6/30/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		6/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		6/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		6/30/2018	CJR	1

Project Name MSOE
 Project # 17076

Invoice # E34849

Lab Code 5034849F
 Sample ID UST-6
 Sample Matrix Soil
 Sample Date 6/22/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.4	%			1	5021		6/26/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		6/30/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		6/30/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		6/30/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		6/30/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		6/30/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		6/30/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		6/30/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		6/30/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		6/30/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

CHAIN OF CUSTODY RECORD

Synergy

Chain # **N^o 3581**

Page 1 of 1

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request	
Rush Analysis Date Required _____	
(Rushes accepted only with prior authorization)	
<input checked="" type="checkbox"/> Normal Turn Around	

Lab I.D. #	
Account No. :	Quote No.:
Project #: 17076	
Sampler: (signature) <i>J. Holcombe</i>	

Project (Name / Location): MSE / 1025 N MILWAUKEE ST				Analysis Requested					Other Analysis									
---	--	--	--	---------------------------	--	--	--	--	-----------------------	--	--	--	--	--	--	--	--	--

Reports To: JT HOLCOMBE		Invoice To: SAME	
Company: SIGMA		Company:	
Address: 1300 W CANAL ST		Address:	
City State Zip: MILWAUKEE WI 53233		City State Zip:	
Phone: 414.643.4200		Phone:	
FAX:		FAX:	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
S054849A	UST-1	6/22/18	11:50		X		2	S	1-meth									X						
B	UST-2																	X						
C	UST-3																	X						
D	UST-4																	X						7.4
E	UST-5																	X						
F	UST-6																	X						

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>clean/seal</i> Temp. of Temp. Blank <u>1</u> °C On Ice: <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign) <i>J. Holcombe</i>	Time	Date	Received By: (sign)	Time	Date
		13:20	6/22/18			
	Received in Laboratory By: <i>[Signature]</i>				Time: 10:45	Date: 6/25/18