

Moraine Environmental, Inc.

Design • Engineer • Construct

August 3, 2018

Project Reference # 6462

Mr. Lee Delcore WDNR – Southeast Region 1155 Pilgrim Parkway Plymouth, WI 53073

RE:

Sub-Surface Assessment, Soil Remediation & No Further Action Request

U.S. Petroleum, Inc. – Lou Perrine 8004 22nd Avenue, Kenosha, WI 53143 DNR BRRTS Activity # 03-30-563222

Dear Mr. Delcore,

Moraine Environmental, Inc. (Moraine) completed a sub-surface assessment at the above property in response to the Wisconsin Department of Natural Resources (WDNR) opening a leaking underground storage tank (LUST) case. The WDNR opened this case after review of the August 2014 TSSA Report and the Closed LUST case file (Drake Automotive, BRRTS # 03-30-003487, PECFA 53143-6208-04) also associated with this property. Contamination was identified in the location of TSSA sample SS-14 where soil analytical results indicated Residual Contaminant Levels above NR 700 standards at a depth 3 feet below ground surface (BGS). The contamination identified in the August 2014 TSSA was located in an area where soil remediation (excavation and backfilling with clean fill to 6 feet below ground surface) had occurred during the Closed LUST activities. As a result, it was determined that a new release had occurred.

Sub-Surface Assessment Activities

Moraine completed the sub-surface assessment on July 3, 2018. The assessment included collection of two soil samples from each of five 15 foot soil borings placed in the area of TSSA sample SS-14 as shown on the attached figure. Samples were collected at the shallow groundwater interface (approximately 4 to 6 feet BGS) and at 12.5-15 feet BGS in each of the five (5) boring locations. Petroleum Volatile Organic Compounds (PVOCs) were not detected in any of the samples. The cores of soil from each boring location were field screened at consecutive intervals (2.5 feet) using a photoionization detector (PID) while following PID screening procedures. PID readings were not elevated at any of the soil boring locations.

Following input from you, Lee, Moraine recommended excavation of the former piping trench which served the pump island where the contaminated sample SS-14 was collected during the August 2014 TSSA. See the following section for a description of these soil excavation activities.

Soil Excavation Activities

Moraine supervised excavation activities completed by Horizon Construction & Exploration (Horizon) on July 27, 2018. Soil was excavated six (6) feet below ground surface (BGS) in an approximately 4′ x 8′ area and then transported for disposal at Waste Management's Pheasant Run Recycling and Disposal Facility (RDF) under profile number BIO129797WI. A total of 6.14 tons of soil were properly disposed at the landfill. The profile application, profile approval, and tonnage report are provided in Attachment 2. Moraine collected six (6) excavation confirmation samples along the excavation trench as depicted on the attached figure. The samples were analyzed for Petroleum Volatile Organic Compounds (PVOCs). Sample 001 was collected approximately 3.5 feet BGS where TSSA sample SS-14 was collected and exhibited groundwater pathway RCL exceedances for Ethylbenzene, MTBE, Naphthalene, and Total Trimethylbenzenes. Sample 004, collected along northwest base/wall of the excavation, contained low level detections below reporting limits. PVOCs were not detected in samples 002, 003, 005, and 006. The trench was backfilled with both clean fill and the original top 2′ of soil (clean fill which was screened and cast aside during excavation).

Conclusion & Recommendations

The shallow excavation in the source area has removed the identified direct contact threat. Moraine recommends no additional investigation or remediation is necessary at this time and requests the WDNR review this case for No Further Action (NFA).

Please contact me if you have any questions or require additional information.

Sincerely,

Thomas C. Sweet

President

Moraine Environmental, Inc.

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

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

Form 4400-237 (R 9/15)

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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 from 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) Page 2 of 8

Section 1. Contact and Rec	iplent information				
Requester Information					
This is the person requesting to specialized agreement and is in	echnical assistance or a podentified as the requester	ost-closure in Section	e modification review, that his o 7. DNR will address its respon	or her liability be clarified use letter to this person.	or a
Last Name	First	MI	Organization/ Business Name	е	
Perrine	Lou		O-Line 50, Inc.		
Mailing Address	-	•	City	State Z	IP Code
5145 Sheridan Road			Kenosha	WI	53140
Phone # (include area code)	Fax # (include area co	de)	Email		
(262) 620-3326			louperrine@aol.com		
The requester listed above: (se	lect all that apply)				
Is currently the owner			Is considering selling the P	Property	
Is renting or leasing the I	Property		Is considering acquiring the	e Property	
Is a lender with a mortga	gee interest in the Proper	ty			
Other. Explain the status	of the Property with resp	ect to the a	applicant:		
Contact Information (to be	contacted with question	ons about	this request)	Select if same	as requester
Contact Last Name	First	MI	Organization/ Business Name		
Sweet	Tom		Moraine Environmental, I	nc.	
Mailing Address	•		City	State Z	IP Code
766 Tower Drive			Fredonia	WI	53021
Phone # (include area code)	Fax # (include area co	de)	Email		
(262) 692-3345	(262) 692-33	48	moraine@execpc.com		
Environmental Consulta		l. Al	Ourse signation / Descines a Nove		
Contact Last Name	First	MI	Organization/ Business Name		
Sweet	Tom		Moraine Environmental, I		ID O - d -
Mailing Address			City		IP Code
766 Tower Drive Phone # (include area code)	Toy # /include eree ee	do)	Fredonia	WI	53021
,	Fax # (include area co	•	Email		
(262) 692-3345	(262) 692-33	48	moraine@execpc.com		
Section 2. Property Informa	tion				
Property Name				FID No. (if known)	
U.S. Petroleum				230041350	
BRRTS No. (if known)			Parcel Identification Number	•	
03-30-563222			04-122-12-401-001		
Street Address			City	State Z	IP Code
8004 22nd Avenue			Kenosha	WI	53143
	lunicipality where the Prop	-	Cinalo t		rty Size Acres
Kenosha	City () Town () Villag	ge of Ken	osha Single t	multiple tax	

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1. Is a respo plan acco	onse needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please rdingly.
○ No	Yes
	Date requested by: $08/17/2018$
	Reason: NFA approval by DNR to expedite financing needed for construction.
2. Is the "Re	equester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?
Ξ	clude the fee that is required for your request in Section 3, 4 or 5. Oo not include a separate fee. This request will be billed separately through the VPLE Program.
Section	ne information in Section 3, 4 or 5 which corresponds with the type of request: n 3. Technical Assistance or Post-Closure Modifications; n 4. Liability Clarification; or Section 5. Specialized Agreement.
	Request for Technical Assistance or Post-Closure Modification
Select the ty	ype of technical assistance requested: [Numbers in brackets are for WI DNR Use]
to	o Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - Include a fee of \$350. Use for a written response an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event. eview of Site Investigation Work Plan - NR 716.09, [135] - Include a fee of \$700.
Re	eview of Site Investigation Report - NR 716.15, [137] - Include a fee of \$1050.
Ap	oproval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - Include a fee of \$1050.
Re	eview of a Remedial Action Options Report - NR 722.13, [143] - Include a fee of \$1050.
Re	eview of a Remedial Action Design Report - NR 724.09, [148] - Include a fee of \$1050.
Re	eview of a Remedial Action Documentation Report - NR 724.15, [152] - Include a fee of \$350
□ Re	eview of a Long-term Monitoring Plan - NR 724.17, [25] - Include a fee of \$425.
☐ Re	eview of an Operation and Maintenance Plan - NR 724.13, [192] - Include a fee of \$425.
Other Te	echnical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)
	chedule a Technical Assistance Meeting - Include a fee of \$700.
Ha	azardous Waste Determination - Include a fee of \$700.
Ot	ther Technical Assistance - Include a fee of \$700. Explain your request in an attachment.
Post-Clo	sure Modifications - NR 727, [181]
└ sit	ost-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; tes 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.
to ma	tach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents ay be submitted later in the approval process, on a case-by-case basis). Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this

form.

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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 DI	
"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 confine sheriff's sale.	ming the
(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 accompension environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,hi., Wis. Stats.:	anying
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 photograph other information available to the lender, including stained or discolored soil or other materials in the ground and including materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminar soil or other materials in the ground and shall quantify concentrations.	s, or g soil or
i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on a Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums of 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 F	roperty;
(5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and	l
(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 	na:
(1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate	ııg.
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.

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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 a	na an adequate summar	y of relevant envirol	nmental 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.

Moraine Environmental, Inc. (Moraine) completed a sub-surface assessment and soil remediation at the U.S. Petroleum, Inc. property in response to the Wisconsin Department of Natural Resources (WDNR) opening a LUST case with activity number # 03-30-563222. Shallow excavation in the source area has removed the identified direct contact threat and contamination in the area of TSSA sample SS14. Moraine recommends no additional investigation or remediation is necessary at this time and requests the WDNR review this case for No Action Required (NAR).

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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.
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: Sub-Surface Assessment, Soil Remediation & No Further Action Request
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): 09/09/2014 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) Page 7 of 8

Section 7. Certification by the Person who completed this form	<u> </u>
I am the person submitting this request (requester)	
□ I prepared this request for: Lou Perrine	
Requester Name	
I certify that I am familiar with the information submitted on this request true, accurate and complete to the best of my knowledge. I also certify this request. Signature	
President	1-262-692-3345
Title Maraina Environmental Inc	Telephone Number (include area code)

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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 <u>DNR regional brownfields specialist</u> 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		Comme	ents	
Fee Enclosed?	Fee Amount		Date Additional Information Requested	Date Requested for DNR Response Letter
◯ Yes ◯ No	\$			
Date Approved	Final Determination			

ATTACHMENT 1

Sub-Surface Assessment Activities



Detailed Site Map

U.S. Petroleum, Inc. 8004 22nd Avenue, Kenosha, WI 53143



1 inch = 10 feet
Date Printed: 7/5/2018



Soil Excavation Activities - July 27, 2018

U.S. Petroleum, Inc. - 8004 22nd Avenue, Kenosha, WI 53143



Initial excavation trench following former pipeline south of SS14. No sheen observed on perched, shallow groundwater.



Clean-up and loading of contaminated soil to be transported to Waste Management Bristol, WI. Bio-pile



Clean fill to right, Bio-pile contaminated soil at far left



Excavation trench backfilled

Table 1 Petroleum Volatile Organic Compounds (PVOC's) and Naphthalene - Soil Analytical Table

U.S. Petroleum, Inc. - Proj. 6462 8004 22nd Avenue, Kenosha, WI 53143

	TSSA S	amples	Sub-Surface Assessment Samples							Excavation Confirmation Samples											
													001	002	003	004	005	006			
Sample ID	SS13	SS14	GI	P-1	GF	P-2	GF	9-3	GI	P-4	GI	P-5	Dirty Landfill Sample	E Adjacent to Footing	SW Base/Wall	NW Base/Wall	NE Base/Wall	N Base/Wall	Groundwater	Non- Industrial	Industrial Direct Contact
Depth BGS (feet)	2	3	5-7.5	12.5-15	5-7.5	12.5-15	5-7.5	12.5-15	5-7.5	12.5-15	2.5-5	12.5-15	3.5	6	6	6	6	6	Pathway RCLs	Direct Contact	Pathway RCLs
Sample Collection Date	8/12/14	8/13/14	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/27/18	7/27/18	7/27/18	7/27/18	7/27/18	7/27/18		Pathway RCLs	ratiiway KCLS
Petroleum Volatile Organi	c Compou	ınds (μg/l	(g)										_								
1,2,4-Trimethylbenzene			<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	42500	<25.0	<25.0	104	<25.0	<25.0	NS	219000	<u>219000</u>
1,3,5-Trimethylbenzene			<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	15100	<25.0	<25.0	<25.0	<25.0	<25.0	NS	182000	<u>182000</u>
Benzene	<25	<200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<200	<25.0	<25.0	<25.0	<25.0	<25.0	5.1	1600	<u>7070</u>
Ethylbenzene	<25	3570	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2380	<25.0	<25.0	<25.0	<25.0	<25.0	1570	8020	<u>35400</u>
Methyl-tert-butyl ether	<25	501 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	812	<25.0	<25.0	<25.0	<25.0	<25.0	27	63800	282000
Naphthalene	<25	5890	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	3040	<25.0	<25.0	46.7 J	<25.0	<25.0	658.7	5520	<u>24100</u>
Toluene	<25	<200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<200	<25.0	<25.0	35.0 J	<25.0	<25.0	1107.2	818000	<u>818000</u>
m&p-Xylene			<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2890	<50.0	<50.0	<50.0	<50.0	<50.0	NS	NS	NS
o-Xylene			<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	677	<25.0	<25.0	<25.0	<25.0	<25.0	NS	NS	NS
Total Trimethylbenzenes	<25	55,200	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	57600	<50	<50	104	<50	<50	1378.7	NS	NS
Total Xylenes	<25	11030	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	3567	<75	<75	<75	<75	<75	3940	260000	<u>260000</u>

Groundwater Pathway and Direct Contact RCLs calculated using the USEPA Regional Screening Level Web Calculator (PUB-RR-890)

All values expressed in µg/kg (micrograms per kilogram).

BGS - feet below ground surface

RCL - Residual Contaminant Level

NS - No Standard established for this analyte

- --- sample not analyzed for this parameter
- < less than the specified detection limit

J - estimated concentration at or above the adjusted detection limit & below the adjusted reporting limit

Italics - value exceeds Groundwater Pathway RCL

Bold - value exceeds Non-Industrial Direct Contact RCL

<u>Bold Underlined</u> - value exceeds Industrial Direct Contact RCL





July 16, 2018

Tom Sweet Moraine Environmental, Inc. 766 Tower Drive Fredonia, WI 53021

RE: Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Dear Tom Sweet:

Enclosed are the analytical results for sample(s) received by the laboratory on July 05, 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,

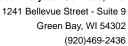
Steven Mleczko

steve.mleczko@pacelabs.com

(920)469-2436 Project Manager

Enclosures







CERTIFICATIONS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171991001	GP-1 (5-7.5)	Solid	07/03/18 00:00	07/05/18 14:20
40171991002	GP-1 (12.5-15)	Solid	07/03/18 00:00	07/05/18 14:20
40171991003	GP-2 (5-7.5)	Solid	07/03/18 00:00	07/05/18 14:20
40171991004	GP-2 (12.5-15)	Solid	07/03/18 00:00	07/05/18 14:20
40171991005	GP-3 (5-7.5)	Solid	07/03/18 00:00	07/05/18 14:20
40171991006	GP-3 (12.5-15)	Solid	07/03/18 00:00	07/05/18 14:20
40171991007	GP-4 (5-7.5)	Solid	07/03/18 00:00	07/05/18 14:20
40171991008	GP-4 (12.5-15)	Solid	07/03/18 00:00	07/05/18 14:20
40171991009	GP-5 (2.5-5)	Solid	07/03/18 00:00	07/05/18 14:20
40171991010	GP-5 (12.5-15)	Solid	07/03/18 00:00	07/05/18 14:20



SAMPLE ANALYTE COUNT

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171991001	GP-1 (5-7.5)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991002	GP-1 (12.5-15)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991003	GP-2 (5-7.5)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991004	GP-2 (12.5-15)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991005	GP-3 (5-7.5)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991006	GP-3 (12.5-15)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991007	GP-4 (5-7.5)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991008	GP-4 (12.5-15)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991009	GP-5 (2.5-5)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40171991010	GP-5 (12.5-15)	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	АН	1	PASI-G



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-1 (5-7.5) Lab ID: 40171991001 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 10:41	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 10:41	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	99	%	80-120		1	07/06/18 07:40	07/06/18 10:41	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	14.9	%	0.10	0.10	1		07/12/18 15:57		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-1 (12.5-15) Lab ID: 40171991002 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	∕lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 11:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:07	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		1	07/06/18 07:40	07/06/18 11:07	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	12.6	%	0.10	0.10	1		07/12/18 16:46		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-2 (5-7.5) Lab ID: 40171991003 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pi	eparation N	1ethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 11:33	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:33	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	07/06/18 07:40	07/06/18 11:33	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	19.3	%	0.10	0.10	1		07/13/18 08:34		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-2 (12.5-15) Lab ID: 40171991004 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	∕lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 11:59	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 11:59	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	99	%	80-120		1	07/06/18 07:40	07/06/18 11:59	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	20.8	%	0.10	0.10	1		07/13/18 08:34		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-3 (5-7.5) Lab ID: 40171991005 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 12:24	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 12:24	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	07/06/18 07:40	07/06/18 12:24	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	17.3	%	0.10	0.10	1		07/13/18 08:06		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-3 (12.5-15) Lab ID: 40171991006 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	reparation N	∕lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 13:41	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 13:41	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	99	%	80-120		1	07/06/18 07:40	07/06/18 13:41	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	12.2	%	0.10	0.10	1		07/13/18 08:34		

(920)469-2436



ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-4 (5-7.5) Lab ID: 40171991007 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	reparation N	∕lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 14:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:07	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	07/06/18 07:40	07/06/18 14:07	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	19.2	%	0.10	0.10	1		07/13/18 08:34		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-4 (12.5-15) Lab ID: 40171991008 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 14:33	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:33	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	99	%	80-120		1	07/06/18 07:40	07/06/18 14:33	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	10.5	%	0.10	0.10	1		07/13/18 08:34		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-5 (2.5-5) Lab ID: 40171991009 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 14:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 14:58	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	07/06/18 07:40	07/06/18 14:58	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	16.8	%	0.10	0.10	1		07/13/18 08:34		



Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Sample: GP-5 (12.5-15) Lab ID: 40171991010 Collected: 07/03/18 00:00 Received: 07/05/18 14:20 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI N	IOD GRO Pr	eparation M	1ethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/06/18 07:40	07/06/18 15:24	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/06/18 07:40	07/06/18 15:24	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	07/06/18 07:40	07/06/18 15:24	98-08-8	1q
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	12.3	%	0.10	0.10	1		07/13/18 08:34		



QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

QC Batch: 293774 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40171991001, 40171991002, 40171991003, 40171991004, 40171991005, 40171991006, 40171991007,

40171991008, 40171991009, 40171991010

METHOD BLANK: 1717922 Matrix: Solid

Associated Lab Samples: 40171991001, 40171991002, 40171991003, 40171991004, 40171991005, 40171991006, 40171991007,

40171991008, 40171991009, 40171991010

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	07/06/18 08:59	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	07/06/18 08:59	
Benzene	ug/kg	<25.0	50.0	07/06/18 08:59	
Ethylbenzene	ug/kg	<25.0	50.0	07/06/18 08:59	
m&p-Xylene	ug/kg	<50.0	100	07/06/18 08:59	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	07/06/18 08:59	
Naphthalene	ug/kg	<25.0	50.0	07/06/18 08:59	
o-Xylene	ug/kg	<25.0	50.0	07/06/18 08:59	
Toluene	ug/kg	<25.0	50.0	07/06/18 08:59	
a,a,a-Trifluorotoluene (S)	%	100	80-120	07/06/18 08:59	

LABORATORY CONTROL SAMPLE &	ABORATORY CONTROL SAMPLE & LCSD: 1717923 1717924									
		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	1030	999	103	100	80-120	3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	998	966	100	97	80-120	3	20	
Benzene	ug/kg	1000	1010	976	101	98	80-120	3	20	
Ethylbenzene	ug/kg	1000	1030	991	103	99	80-120	3	20	
m&p-Xylene	ug/kg	2000	2040	1980	102	99	80-120	3	20	
Methyl-tert-butyl ether	ug/kg	1000	941	908	94	91	80-120	4	20	
Naphthalene	ug/kg	1000	985	977	98	98	80-120	1	20	
o-Xylene	ug/kg	1000	1020	987	102	99	80-120	4	20	
Toluene	ug/kg	1000	1020	986	102	99	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				101	99	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.

(920)469-2436



QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Percent Moisture

Date: 07/16/2018 10:33 AM

QC Batch: 294350 Analysis Method: ASTM D2974-87

%

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40171991001

SAMPLE DUPLICATE: 1721154 40171991001 Dup Max

Parameter Units Result Result RPD RPD Qualifiers

14.9

14.6

2

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.

(920)469-2436



QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

QC Batch: 294354 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40171991002

SAMPLE DUPLICATE: 1721290

 Parameter
 Units
 40171991002 Result
 Dup Result
 Max Result
 RPD
 Qualifiers

 Percent Moisture
 %
 12.6
 13.5
 7
 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.

Max

(920)469-2436



QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

QC Batch: 294371 Analysis Method: ASTM D2974-87

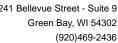
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40171991005

SAMPLE DUPLICATE: 1721417 40171991005 Dup

ParameterUnitsResultResultRPDRPDQualifiersPercent Moisture%17.316.8310

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.





QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

QC Batch: 294379 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40171991003, 40171991004, 40171991006, 40171991007, 40171991008, 40171991009, 40171991010

SAMPLE DUPLICATE: 1721441

Date: 07/16/2018 10:33 AM

40171991006 Dup Max Parameter Units Result Result **RPD** RPD Qualifiers 12.2 % Percent Moisture 11.7 4 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.



QUALIFIERS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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

Date: 07/16/2018 10:33 AM

1q Sample received overweight. Values should be considered an estimate.

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

Date: 07/16/2018 10:33 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch 293799		
40171991001	GP-1 (5-7.5)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO			
40171991002	GP-1 (12.5-15)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991003	GP-2 (5-7.5)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991004	GP-2 (12.5-15)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991005	GP-3 (5-7.5)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991006	GP-3 (12.5-15)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991007	GP-4 (5-7.5)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991008	GP-4 (12.5-15)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991009	GP-5 (2.5-5)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991010	GP-5 (12.5-15)	TPH GRO/PVOC WI ext.	293774	WI MOD GRO	293799		
40171991001	GP-1 (5-7.5)	ASTM D2974-87	294350				
40171991002	GP-1 (12.5-15)	ASTM D2974-87	294354				
40171991003	GP-2 (5-7.5)	ASTM D2974-87	294379				
40171991004	GP-2 (12.5-15)	ASTM D2974-87	294379				
40171991005	GP-3 (5-7.5)	ASTM D2974-87	294371				
40171991006	GP-3 (12.5-15)	ASTM D2974-87	294379				
40171991007	GP-4 (5-7.5)	ASTM D2974-87	294379				
40171991008	GP-4 (12.5-15)	ASTM D2974-87	294379				
40171991009	GP-5 (2.5-5)	ASTM D2974-87	294379				
40171991010	GP-5 (12.5-15)	ASTM D2974-87	294379				

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Project Name	- 1			A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other										Mail To Address:				
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☐ EPA	A Level III	On your sample (billable)	B = Biota C = Charcoal O = Oil	DW = Drink GW = Grou	nd Water	Analyses Requested	PVOC+Nap	13.4							Invoice To Phone:			uudista tähkeyninkoys, konsissa siirjaala ^{ja} tki täätää siinkiinkoksa siyyeepsissa o ^{n e} te t
LJ EPA	A Level IV	NOT needed on your sample	S ≃ Soil SI ≃ Sludge	WW = Wast WP = Wipe	te Water	Amah	3	8	Action of the last						CLIENT	LAB C	OMMENTS	Profile #
PACE LAB#	CLIE	NT FIELD ID	DATE	LECTION TIME	MATRIX										COMMENTS	(Lab	Use Only)	
001	GP-	1643	7/3/1	8	S		X	X										
and	GP-	1 (125-19)			5		4	X							<u>.</u>			
803	GIP-	2 (57.5)			S		¥	Х							101			
004	GP-	7 \			13		X	X								All Lines		
805		3 (5-7.5)		1	5	a des	X	X								terinin di kanjungangan 1966 (1966 (1966) (1966) (1966) (1966)		
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008		4 (125-15)		1	5		X	X	 								ray yan biraka kalandan kaya garay kaya ya garan ka alamada da ka a a a a a a a a a a a a a a a	
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Date/

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Sample Preservation Receipt Form

Moraine Environmental Client Name:

Project # 4017199

All containers needing preservation have been checked and noted below: □Yes □No □XI/A

completed: Time: Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): VaOH+Zn Act pH ≥9 /OA Vials (>6mm) adjusted Glass **Plastic** Vials Jars General 12SO4 pH <2 IaOH pH ≥12 1NO3 pH <2 Volume (mL) WGFU VG9M WPFU AG1H AG4S AG5U AG2S BP3N DG9A **U69/** VG9H VG9D ZPLC after AG10 AG4U BG3U BP1U **BP2N BP3U** ВРЗС **BP3S** DG9T JGFU BP2Z **SP5T** Pace S Lab# 001 2.5 / 5 / 10 002 2.5 / 5 / 10 003 2.5 / 5 / 10 004 2.5 / 5 / 10 005 2.5 / 5 / 10 006 2.5 / 5 / 10 007 2.5 / 5 / 10 800 2.5 / 5 / 10 009 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5 / 5 / 10 012 2.5 / 5 / 10 013 2.5 / 5 / 10 014 2.5 / 5 / 10 015 2.5 / 5 / 10 016 2.5 / 5 / 10 017 2.5 / 5 / 10 018 2.5 / 5 / 10 019 2.5 / 5 / 10 020 2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) : □Yes □No NAMA *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	вр3С	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical

Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.:

Issuing Authority:

1241 Bellevue Street, Green Bay, WI 54302

F-GB-C-031-Rev.07 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Courier: CS Logistics Fed Ex Speed Client Pace Other: Tracking #:		/altco	#:40171991
Custody Seal on Cooler/Box Present: yes Custody Seal on Samples Present: yes Packing Material: Bubble Wrap Bub Thermometer Used SR -	nò Seals intact: bble Bags None Type of Ice: Wet	yes no e Cother	es on ice, cooling process has begun Person examining contents: Date: Initials: 555
Chain of Custody Present:	Òves □No □N/A	1.	——————————————————————————————————————
Chain of Custody Filled Out:		2. No of retines, Pro H	54-7/5/18
Chain of Custody Relinquished:	SES JOS ENIA		sm7/5//8
Sampler Name & Signature on COC:	Mes □No □N/A		
Samples Arrived within Hold Time:	Ø(Yes □No	5.	
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes ∑ No	6.	
Rush Turn Around Time Requested:	□Yes No	7.	
Sufficient Volume:	D: ∐Yes ∑QNo □N/A	8.	
Correct Containers Used:	*Extres □No	9.	
-Pace Containers Used:	Seyes □No □N/A		
-Pace IR Containers Used:	□Yes □No □SN/A		
Containers Intact:	X Yes □No	10.	
Filtered volume received for Dissolved tests	□Yes □No 💆 /A	11.	
Sample Labels match COC:	Yes 🗆 No 🗆 N/A	12.	
-Includes date/time/ID/Analysis Matrix:			
Trip Blank Present:	□Yes □No 🎾N/A	13.	
Trip Blank Custody Seals Present	□Yes □No KN/A		
Pace Trip Blank Lot # (if purchased):			
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:	Date/	• • • •	attached form for additional comments
Project Manager Review:		Uw Da	ate: 7 1 / K

Signature

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Rev. 7-98 Route To: Watershed/Wastewater Waste Management Remediation/Revelopment M Other Facility/Project Name FORMER DRAKE'S License/Permit/Monitoring Number Boring Number US PETROLEUM INC AUTOMOTIVE Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method First Name: GREG Last Name: WESTER $\frac{0}{m}\frac{7}{m}/\frac{0}{d}\frac{3}{d}/\frac{2}{y}\frac{0}{y}\frac{1}{y}\frac{8}{y}$ 07/03/2018 DIRECT PUSH Firm: HORIZON CONSTRUCTION + EXPLORATION WI Unique Well No. | DNR Well ID No. | Well Name WI Unique Well No. Final Static Water Level Borehole Diameter Surface Elevation 2.29 inches ~ 620 Feet MSL Feet MSL Local Grid Origin (estimated:) or Boring Location Local Grid Location 0 Lat DE 0 NE 1/4 of SE 1/4 of Section 12 TOIN, R 22 E Long Feet D S Feet□ W Facility ID County County Code Civil Town/City/ or Village 230041350 KENOSHA CITY OF KENOSHA Sample Soil Properties Depth in Feet (Below ground surface) Length Att. & Recovered (in) Blow Counts Soil/Rock Description And Geologic Origin For RQD/ Comments Number and Type Log Well Diagram PID/FID Plasticity Index Moisture Each Major Unit Graphic USC P 200 Gh Sand + gravel 1.5 0 Silty Sand 60 D SM 0 (2" limestone rock observed at 55"/4.5' BGS) Silty fine sands to silty ML 60 0 6.5 hard, gray day CL D 0 -10as above, wet CL W 0 60 0 15 EOB@ 15' BGS I hereby certify that the information on this form is true and correct to the best of my knowledge.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Firm

MORAINE ENVIRONMENTAL, INC.

			Rou	ite To:		Vastewater 🔲 W /Revelopment 🔀			gement									
															Page	1	_ of _	1
	ty/Proje			.દાત	m INC (F	FORMER DRAIL	KE'S	Licen	se/Peri	mit/Mo	nitorir	g Nun	nber	Borin	g Num	ber		-2
Borin	g Drille	d By:	Nam	e of c	rew chief (first,	last) and Firm				g Starte		Date I	Orilling	g Com	pleted	Drillin	g Met	hod
Firm:	HORE	ZOIV	Cor	JSTR	uction + E	XPLORATION		$\frac{0}{m}\frac{7}{m}$	$\frac{\sqrt{0}}{d} \frac{3}{d}$	$\frac{2}{y}\frac{o}{y}$	$\frac{1}{\lambda}\frac{8}{\lambda}$		$\frac{\sqrt{0}}{d} \frac{3}{d}$		18	DIE	250	PUSH
-	nique V		-	MCE SHEROUSENESS	Well ID No.	Well Name	,	Final	Static '	Water Feet N			e Elev		MSI	Boreh	ole Di	
Local State I	Grid C	rigin	□ (e	stimate	ed:□) or Bor	ring Location □			at	0			Grid L	ocatio	n			
NE	1/4 of	SE	1/4 o	f Secti	on 12, T 0	1 N, R 22 E		Lo	ng	0 '				eet 🗆	S_			□ E □ W
	19 ID 230					IOSTIA	Co	unty C			Town/				МА			
Sam			face)				-							The same of the sa	Prope	rties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)		And Geol	ck Description ogic Origin For Major Unit			uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		_	m 0	4"	asphalt					9.7		I	Ωw	20	11	P	Д	20
			1-	4"	gravel silty sand fine sand	(blook)			SM			0		M				
	A8.		2 -		fine sand				200					Į.				
	60		-	-	in a same	Corowin								D				
												0		W				
00			-5-	as	s above,	wet fine so	ano	4	SM					W				
5-45	,			1								0		VV				
الم	60.			†								0						
	60.		8-	- :	silty clay	, brittle (gr	ay)	CL					M				
									SM			0		101				
4			-10-	- 5	silty san	d, wet			JIV						-			
	60											0		W				
30	60											_		10				
GP-2 (12.5-15)					F							0						
,			IS 15 I		EOB (@ 15' BG	S											
I herel	by cert	ify th	at the	infor	mation on this f	orm is true and c	orre	ct to t	he bes	t of m	y knov	vledge	e.					
Signati	ire	4	leer	1	26)			Firm		INE						lat-		
		10	XXXII	x 99	FX/			100	2121	200	OI	VIIC	MINI	100	110,	INC.		

Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other D			
yes, out i	Pag	e of	1
Facility/Project Name US PETROLEUM INC (FORMER DRAKE'S) License/Permit/Monitoring Number	Boring Nun	nber	4
	g Completed	GP- Drilling Meth	
Last Ivalie: WESTER	12018	DIRECT	
WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Ele		Borehole Dia	
Local Grid Origin		2.29 in	ches
NEW SEW SE W SE 12 7 81 1 2 7 81 1 7 82 5	□ N Feet □ S	Feet F	E
20 1125	age	10012	- **
Sample 9	Soil Prope	erties	A Restriction of the second
Soil/Rock Description And Geologic Origin For			10
	Moisture Content Liquid Limit	Plasticity Index P 200	RQD/ Comments
	Moistur Conten Liquid Limit	Plastic Index P 200	Com
4" asphalt 10" gravel	4.		
50 12" fine sand (black)	M		
60. Silty fine sands to silty MU clay (gray)	D		
Sp o o o o o o o o o o o o o o o o o o o	W		
GD as above			
Silty sand hard gray clay	D		
(a) (b) (b)			
SM O			
10 wet fine sand			
	W		
A0 C			
no brittle day (grow), CL brittle	W		
<u></u>			
15			
EOB@15' BGS			
I hereby certify that the information on this form is true and correct to the best of my knowledge.			
Signature A A A A A A Firm			

Route To: Watershed/Wastewater Waste Management Remediation/Revelopment 🔀 Other 🗌 Facility/Project Name FORMER DRAKE'S License/Permit/Monitoring Number Boring Number US PETROLEUM INC AUTOMOTIVE Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Completed Drilling Method Date Drilling Started First Name: GREG Last Name: WESTER $\frac{0}{m}\frac{7}{m}/\frac{0}{d}\frac{3}{d}/\frac{2}{y}\frac{o}{y}\frac{1}{y}\frac{8}{y}$ $\frac{07}{m}$ $\frac{7}{m}$ $\frac{3}{d}$ $\frac{2018}{y}$ $\frac{1}{y}$ $\frac{8}{y}$ DIRECT PUSH Firm: HORIZON CONSTRUCTION 4 EXPLORATION VI Unique Well No. | DNR Well ID No. | Well Name WI Unique Well No. Final Static Water Level Surface Elevation Borehole Diameter 2.29 inches ~ 620 Feet MSL Feet MSL Local Grid Origin (estimated:) or Boring Location Local Grid Location 0 Lat \Box E 0 NE 1/4 of SE 1/4 of Section 12 TOI N, R 22 E Long Feet D S Feet□ W Facility ID County Code Civil Town/City/ or Village 230041350 KENOSHA CITY OF KENOSHA Sample n in Feet ground surface) Soil Properties Length Att. & Recovered (in) Blow Counts Soil/Rock Description Compressive Strength Number and Type RQD/ Comments And Geologic Origin For USCS PID/FID Moisture Content Plasticity Index Well Diagram Each Major Unit Depth i Graphic Liquid Limit P 200 4" asphalt 5" gravel fill Silts and very fine sands (black) 0 M Silts and very fine sands (brown) 60 0 D 5 as above, wet MI W 60 0 CL (P D silty sand, wet hard silty clay (gray), SM W 20 0 60 CL brittle M 0 EOB@ 15' BGS I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Firm MORAINE ENVIRONMENTAL, INC.

			Rou	te To:	Watershed/V	Vastewater W	Vaste	Manag	gement									
					Remediation	Revelopment 🔼	Oth	ier _				_						
Facili	ty/Proj	ect Na	me			FORMER DRA	4=10	Licen	se/Per	mit/Mo	mitorin	a Num	har	Dorin	Page g Num		_ of _	
u	SP	ETI	201	ક્યા	MINCL	AUTOMOTIVE		Licen	30/1 CII	ility ivic						C	ap-	
First N	g Drille	are	Nam	e of cr Last	ew chief (first, Name: WEST	last) and Firm				g Starte						Drillin		
Firm:	Horr	701V	COM	ISTRI	ACTION + E			$\frac{O}{m}\frac{T}{m}$	$\frac{0}{d} \frac{3}{d}$	$\frac{2}{y}\frac{o}{y}$	$\frac{1}{y}\frac{g}{y}$	0 7 m	$\frac{03}{d}$	$\frac{2}{y}\frac{0}{y}$	18	DIE	2501	PUSH
WIU	nique V	Vell N	0.	DNR	Well ID No.	Well Name	of the supplemental of	Final		Water Feet M			e Elev		MCI	Boreho	ole Di	ameter
Local State I	Grid C	rigin	☐ (e	stimate	d: D) or Bo	ring Location				0 1			Grid L			2.	211	nches
NE	1/4 of	SE	1/4 of	Section		1 N, R 22 E	=	Loi	at	0 '	"		E		I N			D E
Facili	ty ID				County			unty C	ode		Town/		r Villa				_ reet	□ W
Sam	230	04	and the same of		KEN	KHZOU		3 (<u></u>	cr	TY (⊅ ₹	KEN	The second division in which the	12-12-20-20-21			
	. & (ii)	ts	er surface		Soil/Ro	ck Description									Prope	rties		
ype	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)		And Geo	logic Origin For Major Unit			S	0	E	Q	Compressive Strength	er =		Ly.		snts
Number and Type	engl	low	epth		Each	Major Omi			USC	Graphic Log	Well Diagram	PID/FID	mpre	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	R		100	51	nd + av	cure l		-	12	Grad S	D Q	Q.	Sys	ΣŬ	בנ	면대	Д	& Ö
	7.		_	-sil	ts + verin	avel fine sand fine sands	10/1	11-2						M				
	50		-		4	2000	12 (6	brack	SM		0			M				
20	60			711	15 4 very	tine sands	. (gr	ay)			-							
GP-5				l							7			,				
NA	·			- Si	thy sand	(gray)					0			D				
-			-5-	- 0	lay, britt	(gray) le (brown	<u></u>)		,				10				
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	9%.			-										D				
	60.													,-				
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	60		۵	- h	ard silte	1 clay/ava	4)				0							
-	1.0				wet	, cg.	17/		CL									
SE	60.		-															
S261	,		-								0							
			= 15=										Washington .					
					EOB (@ 15' BG	S											
I hereb Signatu						form is true and o		ct to the	he bes	t of m	y knov	vledge	e					
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Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

			Rou	te to DNI	R Bureau:			**	T-10-10-10-10-10-10-10-10-10-10-10-10-10-		
Verification Only	of Fill and	Seal		Drinking	g Water		Watershed/Was	stewater	Remed	liation/Redeve	lopment
				Waste N	Manageme	nt 🔲	Other:				
1. Well Location Inform						2. Facility	/ Owner Infor	mation			
County	WI Unique W Removed We	ell # of	Hicar	#		Facility Nam	ie		FORM	ER DRAN	(Z:3)
KENOSHA	Terrioved vve	:11	-			US	PETROLE	M, INC	(zu	TOMOTIVE	
Latitude / Longitude (see ins	structions)	Fo	rmat Code	Meth	od Code	Facility ID (F					
		N			GPS008		041350 mit/Monitoring #				
		w			SCR002 OTH001	GP-					
1/4 NE 1/4 SE	Sec	-	Township		1050202014000000	Original We					
or Gov't Lot #		12		0		Original Tro					
Well Street Address		12	101	N 22	<u>- U W</u>	Present We	II Owner		272-201-		
8004 22 N	ANG	NUE	=								
Well City, Village or Town	D NVE		- W	ell ZIP Co	ode	Mailing Add	ress of Present (Owner			
CITY OF KA	AHOON			531-	43						
Subdivision Name	VOSCIA	~	Lo	ot#		City of Pres	ent Owner		State	ZIP Code	
Reason for Removal from S	Service W	I Unique	Well # of	Replacer	ment Well			, Casing & Se	aling Mat		
EXPLORATORY PROB	E	_			_		d piping removed	d?		Yes No	12.21
3. Filled & Sealed Well						Liner(s) r	emoved? perforated?	18		Yes No	
Monitoring Well	Origin		truction Da		ld/yyyy)	Screen re				Yes No	N/A
Water Well	0	7/0	3/20	218		CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	eft in place?		H	Yes No	N/A
Borehole / Drillhole		ell Cons e attach	struction R	teport is a	available,	Was casi	ng cut off below	surface?		Yes No	N/A
Construction Type:						Did seali	ng material rise t	o surface?	K		☐ N/A
	riven (Sandp	Service to		Dug		DERON SYSTEM	rial settle after 24			Yes M No	∐ N/A
Other (specify):	PECT P	HZN					s, was hole retop		udratad	Yes No	N/A
Formation Type:							er from a known	ed, were they hy safe source?	urateu _	Yes No	K N/A
Unconsolidated Forma	ation		Bedrock			Required M	ethod of Placing	Sealing Material			-
Total Well Depth From Gro	und Surface (ft.) Ca	sing Diam	eter (in.)				y Conducto	r Pipe-Pum	ped	
15							ned & Poured onite Chips)	Other (Ex	(plain): 💪	RAVITY	
Lower Drillhole Diameter (in	n.)	Ca	sing Dept	h (ft.)		Sealing Ma					
2.29						☐ Neat	Cement Grout		Concrete	9	
	10				1	Sand-	Cement (Concre	ete) Grout	K Bentonite	e Chips	
Was well annular space gro			es 🔲	140	Unknown	For Monitor	ring Wells and M	onitoring Well Bo	reholes On	ly:	
If yes, to what depth (feet)?	,	Depth to	Water (fe	eet)			nite Chips	Ben	tonite - Cen	nent Grout	
				•		Grant	ular Bentonite		tonite - San	A CONTRACTOR OF THE PARTY OF TH	
5. Material Used to Fil	l Well / Dril	lhole				From (ft.)	To (ft.)	No. Yards, Sacks Volume (circ		Mix Ra Mud W	tio or eight
3/8" B	ENTON	TE. C	CHIPS			Surface	15	0.429			
8 -											
	V 3.3 (1994 (A) (= 1784 (and the same of the same		
6. Comments	6.5美元,传说				成以管理。	型的表面性					
7. Supervision of Wor				多 数分类	we will the				DNR Use		
Name of Person or Firm Do	- A CONTRACTOR OF THE PARTY OF		License	e #	Date of F	rilling & Sealir /yyy) 07/ 0	ng or Verification	Date Received		Noted By	
MORAINE EN	VIRONM	ATIA	L			Telephone Nu	mber	Comments			
766 TOWER	DRIVE						12-3345				1
City				ZIP Code		/1	of Person Doing	Work	D	ate Signed	
FREDONIA			WI	530	21	100	leword	/		7/5/20	8
1992							000)			

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

| Route to DNR Bureau: | Watershed/Wastewater | Remediation/Redevelopment | Remediation/Re

Verification Only	of Fill and	Seal			inking \	Bureau: Vater		Watershed/Wa	astewater	Remed	diation/Redeve	elopment
				Wa	aste Ma	anagemer		Other:				
1. Well Location Infor								Owner Info	ormation			
KEN OSHA	WI Unique W Removed We		- Hid	ap#			Facility Name US F Facility ID (FI	ETROLE	EUM, INC	(FORM	TOMOTIVE	re:z)
Latitude / Longitude (see in	nstructions)	Fo	rmat Co	de	Method		Harman San and American	04135C	`			
		N				PS008 CR002	License/Perm	nit/Monitoring	#		11111	
		w	DDI	м		TH001	GP-					
14/4 NE 14 S	E Sec	tion	Towns	hip	Range	⊠ E	Original Well					
or Gov't Lot #		2	01	N	22	□w						
Well Street Address	7/5						Present Well	Owner				
8004 221	UD AVE	JULE	7				Marilla - Adda	(D	0			
Well City, Village or Town					IP Cod		Mailing Addre	ess of Present	Owner			
CITY OF KE	NOSHA				314	3	City of Prese	nt Owner		State	ZIP Code	
Subdivision Name				Lot #			City Of 1 1636	THE OWNER		State	Zii Code	
Reason for Removal from	Sanda IM	I Unique	Moll #	of Dor	olocomo	ant Mall	4. Pump. L	iner. Scree	n, Casing & S	ealing Mat	erial	1 / W
EXPLORATORY PROP	a comparation (1)	Onique	vven #	oi Ket	Jiaceme	ent wen		piping remov	DESCRIPTION OF THE PARTY OF THE		Yes No	K N/A
3. Filled & Sealed Wel		/ Borel	nole In	form	ation	WELL	Liner(s) re	moved?			Yes No	⋉ N/A
Monitoring Well		al Const				уууу)	Liner(s) pe	erforated?			Yes No	
_		7/0	3/6	2018	2		Screen rer				Yes No	
Water Well	lf a W	ell Cons		-		ailable.	Casing left	t in place?			Yes No	X N/A
Borehole / Drillhole		e attach				anemater (Was casin	g cut off belov	v surface?		Yes No	TALL STATE OF THE PARTY OF THE
Construction Type:							The second second	g material rise		K	Yes No	N/A
	Driven (Sandp			Dug			17 AMERICAN CONT.	ial settle after		Ļ	Yes M No	
Other (specify):	IPECT P	HZN						was hole reto	pped? used, were they h	L]Yes ∐No	N/A
Formation Type:									safe source?	yurateu _	Yes No	K N/A
Unconsolidated Form	ation		Bedrock	(Required Me	thod of Placin	g Sealing Materia	al		
Total Well Depth From Gro	ound Surface (ft.) Ca	sing Dia	ameter	(in.)				ity Conduct	or Pipe-Pum	ped	
15								ed & Poured nite Chips)	Other (E	xplain):_6	RAVITY	
Lower Drillhole Diameter (in.)	Ca	sing De	pth (ft.	.)		Sealing Mate					
2.29							Neat C	ement Grout		Concrete	е	
				_			Sand-0	Cement (Conc	rete) Grout	K Bentonit	e Chips	
Was well annular space gro	outed? -	Ye	es	140		Jnknown	For Monitoria	ng Wells and I	Monitoring Well B	oreholes On	ily:	
If yes, to what depth (feet)	?	Depth to	Water	(feet)			Benton	nite Chips	Be	ntonite - Cen	nent Grout	
							Granul	ar Bentonite	Be	ntonite - San	d Slurry	
5. Material Used to Fi	II Well / Dril	lhole				Kall R.	From (ft.)	To (ft.)	No. Yards, Sacl		r Mix Ra Mud W	tio or
	BENTON		-6110°		<u>-</u>		Surface	15	Volume (cir		iviua vv	reignt
	10/01	18	111P	3			Surrace	10	0.12	71		
									-			
6. Comments												
7. Supervision of Wo	rk	Stole.		(b) 14		· 大				DNR Us	e Only	17 116
Name of Person or Firm D		Sealing	Licer	ise#		Date of F	illing & Sealing	g or Verificatio	n Date Receive		Noted By	
MORAINE EN	VIRONM	ATA					yyy) 07/0:	3/2018				
Street or Route						100	elephone Nun		Comments	*	Taylor V	100
766 TOWER	DRIVE					(262)69					
City			State		Code	- 1		Person Doing		D	ate Signed	10
FOFTONIA		- 1	WI	1.5	1050	71	1 / 24	V () I) - South	1/	1	+12/20)/×

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

	Route to DNR Bureau:		
Verification Only of Fill and Seal	Drinking Water Waste Managemer	Watershed/Wastewate	Remediation/Redevelopment
1. Well Location Information		2. Facility / Owner Informatio	n
County WI Unique Well # of	Hicap #	Facility Name	
Removed Well		US PETROLEUM	INC (SUTOMOTIVE)
KEN DSHA		Facility ID (FID or PWS)	INCA (SWIDIOUTTO)
Latitude / Longitude (see instructions) Form	mat Code Method Code	230041350	
N	DD GPS008	License/Permit/Monitoring #	
w [DDM DOTHO01	GP-3	
		Original Well Owner	
100 30		Oliginal Woll Owner	
16	61 N 22 W	Present Well Owner	
Well Street Address		Present Well Owner	
8004 22 ND AVENUE		Mailing Address of December Owner	
Well City, Village or Town	Well ZIP Code	Mailing Address of Present Owner	
CITY OF KENOSHA	53143	0, 10	lou de la
Subdivision Name	Lot #	City of Present Owner	State ZIP Code
Reason for Removal from Service WI Unique	Well # of Replacement Well	4. Pump, Liner, Screen, Casi	
EXPLORATORY PROBE		Pump and piping removed?	Yes No N/A
3. Filled & Sealed Well / Drillhole / Boreh	ole Information	Liner(s) removed?	Yes No No N/A
Monitoring Well Original Constru	uction Date (mm/dd/yyyy)	Liner(s) perforated?	Yes No No N/A
= 03/2	3/2018	Screen removed?	Yes No YN/A
Water Well	ruction Report is available,	Casing left in place?	Yes No No N/A
Borehole / Drillhole please attach.	ruction Report is available,	Was casing cut off below surface	? Yes No No N/A
Construction Type:		Did sealing material rise to surface	
Drilled Driven (Sandpoint)	Dug	Did material settle after 24 hours	
		If yes, was hole retopped?	Yes No N/A
Other (specify): DIPSCT PUSH		If bentonite chips were used, were	re they hydrated
Formation Type:		with water from a known safe so	
Unconsolidated Formation	edrock	Required Method of Placing Sealing	g Material
Total Well Depth From Ground Surface (ft.) Cas	ing Diameter (in.)	Conductor Pipe-Gravity	Conductor Pipe-Pumped
15		Screened & Poured	Other (Explain): GRAVITY
	ing Depth (ft.)	Sealing Materials	7-28-3117
**************************************	ing Deptir (it.)		□ ot-
2.29		Neat Cement Grout	Concrete
Was well annular space grouted?	No Unknown	Sand-Cement (Concrete) Gro	
		For Monitoring Wells and Monitorin	g Well Boreholes Only:
If yes, to what depth (feet)?	Water (feet)	Bentonite Chips	Bentonite - Cement Grout
		Granular Bentonite	Bentonite - Sand Slurry
5. Material Used to Fill Well / Drillhole			rds, Sacks Sealant or Mix Ratio or
	即以 解釋的 晚 排除 100 自转 2000		ume (circle one) Mud Weight
3/8" BENTONITE C	HIPS	Surface 15 C	5.429 ft3
			2 199 N. F. GV 11 18 1 199 A. P. C. S.
6. Comments		e e kanto francista (Photografica)	
7. Supervision of Work	Visitoria de visco do destro de la como		DNR Use Only
Name of Person or Firm Doing Filling & Sealing	License # Date of Fi		Received Noted By
	((- - - - - - - - - - - - -	(VY) 07/03/2018	
MORAINE ENVIRONMENTAL Street or Route			ments
	and the same of th	262) 692-3345	
City TOWER DRIVE	tate ZIP Code	Signature of Person Doing Work	Date Signed
	WI 53021	Colley Sep 2	7/5/2018
FREDONIA	170071	DULLE TOKA!	7/0/000

FREDONIA

Well / Drillhole / Borehole Filling & Sealing Report

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information. Route to DNR Bureau: **Drinking Water** Watershed/Wastewater Remediation/Redevelopment Verification Only of Fill and Seal Waste Management Other: 1. Well Location Information 2. Facility / Owner Information WI Unique Well # of Removed Well County Hicap # **Facility Name** FORMER DRAKE'S US PETROLEUM, INC MUTOMOTIVE KENOSHA Facility ID (FID or PWS) Latitude / Longitude (see instructions) Format Code Method Code 230041350 GPS008 DD N License/Permit/Monitoring # SCR002 W DDM GP-4 OTH001 1/4/1/4 Section Township Range Original Well Owner X E NE SE or Gov't Lot# 22 12 01 Present Well Owner Well Street Address 8004 22 ND AVENUE Mailing Address of Present Owner Well City, Village or Town Well ZIP Code CITY OF KENIOSH City of Present Owner State ZIP Code Subdivision Name 4. Pump, Liner, Screen, Casing & Sealing Material Reason for Removal from Service WI Unique Well # of Replacement Well Pump and piping removed? Yes No X N/A EXPLORATORY PROBE Liner(s) removed? No K N/A Yes 3. Filled & Sealed Well / Drillhole / Borehole Information Liner(s) perforated? Yes No N/A Original Construction Date (mm/dd/yyyy) Monitoring Well Screen removed? Yes No N/A 07/03/2018 Water Well Casing left in place? Yes No X N/A If a Well Construction Report is available, Borehole / Drillhole Was casing cut off below surface? Yes No please attach. Did sealing material rise to surface? **K** Yes Construction Type: No N/A Did material settle after 24 hours? Yes 🖟 No N/A Drilled Driven (Sandpoint) Dug If yes, was hole retopped? No Yes Other (specify): DIRECT PUSH If bentonite chips were used, were they hydrated Formation Type: No K N/A Yes with water from a known safe source? ★ Unconsolidated Formation Bedrock Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped Total Well Depth From Ground Surface (ft.) Casing Diameter (in.) Screened & Poured Other (Explain): GRAVITY (Bentonite Chips) Lower Drillhole Diameter (in.) Casing Depth (ft.) Sealing Materials Neat Cement Grout Concrete 2.29 Sand-Cement (Concrete) Grout K Bentonite Chips Was well annular space grouted? Yes 140 Unknown For Monitoring Wells and Monitoring Well Boreholes Only: If yes, to what depth (feet)? Depth to Water (feet) Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry No. Yards, Sacks Sealant or 5. Material Used to Fill Well / Drillhole From (ft.) To (ft.) Volume (circle one) BENTONITE CHIPS Surface 15 0.429 43 6. Comments 7. Supervision of Work **DNR Use Only** Date Received Name of Person or Firm Doing Filling & Sealing Date of Filling & Sealing or Verification License # Noted By (mm/dd/yyyy) 07/03/2018 MORAINS ENVIRONMENTA Telephone Number Street or Route Comments (262) 692-3345 766 TOWER DRIVE State ZIP Code Date Signed 53021 WI 7/5/2018

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

		Route	to DNR Bureau:					
Verification Only of Fil	l and Seal		rinking Water		Watershed/Wa	astewater	Remedia	ation/Redevelopment
		□ w	aste Managemer	nt 🗆	Other:			
1. Well Location Information	n				y / Owner Info	rmation		
	ique Well # of ved Well	Hicap #		Facility Na	me		FORM	ER DRAKES)
KENOSHA =	ved vven					JUM, INC	TUK	TOMOTIVE)
Latitude / Longitude (see instruction	ons) Form	at Code	Method Code	MANAGE - 110-100 M. 201-100-100	(FID or PWS)			
	N 🗆]DD	GPS008		od 41350			
	w г]DDM	SCR002	or working the second	- 5			
14/4 NE 14 SE		ownship	Range K E	Original W				
or Gov't Lot #	12	0) N	22 w					
Well Street Address	12	01 14	22	Present W	ell Owner			
m	AVENUE							
Well City, Village or Town	NEIGHE	Well	ZIP Code	Mailing Ad	dress of Present	Owner		
CITY OF KENOS	HA	5	3143	1				1
Subdivision Name		Lot #		City of Pre	sent Owner		State	ZIP Code
				4 Dum	Lines Cores	n Coolna 9 C	adiaa Mata	**************************************
Reason for Removal from Service	WI Unique W	ell # of Re	placement Well		nd piping remov	n, Casing & So		Yes No K N/A
EXPLORATORY PROBE		La De Garre		20 100000000000000000000000000000000000	removed?		=	Yes No No N/A
3. Filled & Sealed Well / Dri	Original Constru			Liner(s)	perforated?			Yes No No N/A
Monitoring Well	,	1201		Screen	removed?			Yes No No N/A
Water Well	If a Well Constru	-		Casing	left in place?			Yes No No N/A
Borehole / Drillhole	please attach.	iction Rep	ort is available,	Was ca	sing cut off belov	v surface?		Yes No No NA
Construction Type:				Did sea	lling material rise	to surface?	K	Yes No N/A
Drilled Driven	(Sandpoint)	Du Du	g	LENGTH TO SELECT	terial settle after			Yes Mo No N/A
Other (specify): DIPEC	IT PUSH		•		es, was hole reto	a b		Yes No No N/A
Formation Type:					nite cnips were t ter from a knowr	used, were they h n safe source?	ydrated	Yes No No N/A
Unconsolidated Formation	Be	drock		Required	Method of Placin	g Sealing Materia	ıl	
Total Well Depth From Ground S	urface (ft.) Casir	g Diamete	er (in.)	Con	ductor Pipe-Grav	ity Conduct	or Pipe-Pump	oed
15					ened & Poured ntonite Chips)	Other (E	xplain): 64	RAVITY
Lower Drillhole Diameter (in.)	Casir	g Depth (f	t.)	Sealing M				
2.29	- 1			Near	t Cement Grout	[Concrete	
•				San	d-Cement (Conc	rete) Grout	K Bentonite	Chips
Was well annular space grouted?	Yes	No	Unknown	For Monite	oring Wells and I	Monitoring Well B	oreholes Only	y:
If yes, to what depth (feet)?	Depth to W	ater (feet)		Ben	tonite Chips	Ber	ntonite - Cem	ent Grout
-	***************************************			Gran	nular Bentonite		ntonite - Sand	
5. Material Used to Fill Wel	I / Drillhole			From (ft.	.) To (ft.)	No. Yards, Sack Volume (cir		Mix Ratio or Mud Weight
3/8" BEN	TONITE CH	lips	Principle of the Princi	Surface	15	0.429		waa wegat
	10/01/2						-/1	
6. Comments	A Editor							
7. Supervision of Work		接到伪	机力性,指数性线			是在阿里克	DNR Use	
Name of Person or Firm Doing F	illing & Sealing	License #	Date of F	illing & Seal	ling or Verificatio	n Date Receive	d	Noted By
Street or Route	DATUSMU		Т	elephone N		Comments		
766 TOWER DR	VE_				92-3345			
City	Sta		Code	Signature	of Person Doing	y Work	1000	ate Signed
FREDONIA		N1 (53021	I W	recoff	K		7/5/2018
					00	()		

ATTACHMENT 2

Soil Excavation Activities



Detailed Site Map

U.S. Petroleum, Inc. 8004 22nd Avenue, Kenosha, WI 53143



1 inch = 10 feet
Date Printed: 7/5/2018



Table 1 Petroleum Volatile Organic Compounds (PVOC's) and Naphthalene - Soil Analytical Table

U.S. Petroleum, Inc. - Proj. 6462 8004 22nd Avenue, Kenosha, WI 53143

	TSSA S	amples				Sub-Su	rface Asse	essment S	amples					Exca	vation Conf	irmation Sa	mples				
													001	002	003	004	005	006			
Sample ID	SS13	SS14	GI	P-1	GF	P-2	GF	9-3	GI	P-4	GI	P-5	Dirty Landfill Sample	E Adjacent to Footing	SW Base/Wall	NW Base/Wall	NE Base/Wall	N Base/Wall	Groundwater	Non- Industrial	Industrial Direct Contact
Depth BGS (feet)	2	3	5-7.5	12.5-15	5-7.5	12.5-15	5-7.5	12.5-15	5-7.5	12.5-15	2.5-5	12.5-15	3.5	6	6	6	6	6	Pathway RCLs	Direct Contact	Pathway RCLs
Sample Collection Date	8/12/14	8/13/14	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/3/18	7/27/18	7/27/18	7/27/18	7/27/18	7/27/18	7/27/18		Pathway RCLs	ratiiway KCLS
Petroleum Volatile Organi	c Compou	ınds (μg/l	(g)										_								
1,2,4-Trimethylbenzene			<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	42500	<25.0	<25.0	104	<25.0	<25.0	NS	219000	<u>219000</u>
1,3,5-Trimethylbenzene			<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	15100	<25.0	<25.0	<25.0	<25.0	<25.0	NS	182000	<u>182000</u>
Benzene	<25	<200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<200	<25.0	<25.0	<25.0	<25.0	<25.0	5.1	1600	<u>7070</u>
Ethylbenzene	<25	3570	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	2380	<25.0	<25.0	<25.0	<25.0	<25.0	1570	8020	<u>35400</u>
Methyl-tert-butyl ether	<25	501 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	812	<25.0	<25.0	<25.0	<25.0	<25.0	27	63800	282000
Naphthalene	<25	5890	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	3040	<25.0	<25.0	46.7 J	<25.0	<25.0	658.7	5520	<u>24100</u>
Toluene	<25	<200	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<200	<25.0	<25.0	35.0 J	<25.0	<25.0	1107.2	818000	<u>818000</u>
m&p-Xylene			<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	2890	<50.0	<50.0	<50.0	<50.0	<50.0	NS	NS	NS
o-Xylene			<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	677	<25.0	<25.0	<25.0	<25.0	<25.0	NS	NS	NS
Total Trimethylbenzenes	<25	55,200	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	57600	<50	<50	104	<50	<50	1378.7	NS	NS
Total Xylenes	<25	11030	<75	<75	<75	<75	<75	<75	<75	<75	<75	<75	3567	<75	<75	<75	<75	<75	3940	260000	<u>260000</u>

Groundwater Pathway and Direct Contact RCLs calculated using the USEPA Regional Screening Level Web Calculator (PUB-RR-890)

All values expressed in µg/kg (micrograms per kilogram).

BGS - feet below ground surface

RCL - Residual Contaminant Level

NS - No Standard established for this analyte

- --- sample not analyzed for this parameter
- < less than the specified detection limit

J - estimated concentration at or above the adjusted detection limit & below the adjusted reporting limit

Italics - value exceeds Groundwater Pathway RCL

Bold - value exceeds Non-Industrial Direct Contact RCL

<u>Bold Underlined</u> - value exceeds Industrial Direct Contact RCL





August 02, 2018

Tom Sweet Moraine Environmental, Inc. 766 Tower Drive Fredonia, WI 53021

RE: Project: 6462 LOU PERRINE Pace Project No.: 40173283

Dear Tom Sweet:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 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,

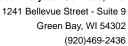
Steven Mleczko

steve.mleczko@pacelabs.com

(920)469-2436 Project Manager

Enclosures







CERTIFICATIONS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

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

(920)469-2436



SAMPLE SUMMARY

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40173283001	DIRTY LANDFILL SAMPLE	Solid	07/27/18 00:00	07/31/18 09:50
40173283002	EAST ADJACENT TO FOOTING @ 6'	Solid	07/27/18 00:00	07/31/18 09:50
40173283003	SW BASE/WALL @ 6'	Solid	07/27/18 00:00	07/31/18 09:50
40173283004	NW BASE/WALL @ 6'	Solid	07/27/18 00:00	07/31/18 09:50
40173283005	NE BASE/WALL @ 6'	Solid	07/27/18 00:00	07/31/18 09:50
40173283006	N BASE/WALL @ 6'	Solid	07/27/18 00:00	07/31/18 09:50

(920)469-2436



SAMPLE ANALYTE COUNT

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

_ab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10173283001	DIRTY LANDFILL SAMPLE	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
10173283002	EAST ADJACENT TO FOOTING @ 6'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
10173283003	SW BASE/WALL @ 6'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
10173283004	NW BASE/WALL @ 6'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
10173283005	NE BASE/WALL @ 6'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
10173283006	N BASE/WALL @ 6'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	JXM	1	PASI-G
4017328300 6	N BASE/WALL @ 6'	WI MOD GRO	ALD	•	ı



Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO PI	reparation N	/lethoc	i: TPH GRO/PVO	C WI ext.		
Benzene	<200	ug/kg	400	200	8	08/01/18 08:30	08/01/18 11:27	71-43-2	W
Ethylbenzene	2380	ug/kg	489	245	8	08/01/18 08:30	08/01/18 11:27	100-41-4	
Methyl-tert-butyl ether	812	ug/kg	489	245	8	08/01/18 08:30	08/01/18 11:27	1634-04-4	
Naphthalene	3040	ug/kg	489	245	8	08/01/18 08:30	08/01/18 11:27	91-20-3	
Toluene	<200	ug/kg	400	200	8	08/01/18 08:30	08/01/18 11:27	108-88-3	W
1,2,4-Trimethylbenzene	42500	ug/kg	489	245	8	08/01/18 08:30	08/01/18 11:27	95-63-6	
1,3,5-Trimethylbenzene	15100	ug/kg	489	245	8	08/01/18 08:30	08/01/18 11:27	108-67-8	
m&p-Xylene	2890	ug/kg	978	489	8	08/01/18 08:30	08/01/18 11:27	179601-23-1	
o-Xylene	677	ug/kg	489	245	8	08/01/18 08:30	08/01/18 11:27	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	121	%	80-120		8	08/01/18 08:30	08/01/18 11:27	98-08-8	S7
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	18.2	%	0.10	0.10	1		07/31/18 12:57		



Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

Sample: EAST ADJACENT TO Lab ID: 40173283002 Collected: 07/27/18 00:00 Received: 07/31/18 09:50 Matrix: Solid

FOOTING @ 6'

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	08/01/18 08:30	08/01/18 12:45	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 12:45	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	116	%	80-120		1	08/01/18 08:30	08/01/18 12:45	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	18.1	%	0.10	0.10	1		07/31/18 12:57		



Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

Sample: SW BASE/WALL @ 6' Lab ID: 40173283003 Collected: 07/27/18 00:00 Received: 07/31/18 09:50 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO PI	reparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	08/01/18 08:30	08/01/18 13:11	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:11	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	96	%	80-120		1	08/01/18 08:30	08/01/18 13:11	98-08-8	1q,P4
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	16.1	%	0.10	0.10	1		07/31/18 12:57		



Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

Sample: NW BASE/WALL @ 6' Lab ID: 40173283004 Collected: 07/27/18 00:00 Received: 07/31/18 09:50 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:37	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:37	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:37	1634-04-4	W
Naphthalene	46.7J	ug/kg	56.7	28.4	1	08/01/18 08:30	08/01/18 13:37	91-20-3	
Toluene	35.0J	ug/kg	56.7	28.4	1	08/01/18 08:30	08/01/18 13:37	108-88-3	
1,2,4-Trimethylbenzene	104	ug/kg	56.7	28.4	1	08/01/18 08:30	08/01/18 13:37	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:37	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	08/01/18 08:30	08/01/18 13:37	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 13:37	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	08/01/18 08:30	08/01/18 13:37	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	11.9	%	0.10	0.10	1		07/31/18 12:57		



Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

Sample: NE BASE/WALL @ 6' Lab ID: 40173283005 Collected: 07/27/18 00:00 Received: 07/31/18 09:50 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	08/01/18 08:30	08/01/18 14:02	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:02	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	110	%	80-120		1	08/01/18 08:30	08/01/18 14:02	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	21.9	%	0.10	0.10	1		07/31/18 12:58		

(920)469-2436



ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

Sample: N BASE/WALL @ 6' Lab ID: 40173283006 Collected: 07/27/18 00:00 Received: 07/31/18 09:50 Matrix: Solid

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	08/01/18 08:30	08/01/18 14:28	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	08/01/18 08:30	08/01/18 14:28	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	97	%	80-120		1	08/01/18 08:30	08/01/18 14:28	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	17.7	%	0.10	0.10	1		07/31/18 12:58		



QUALITY CONTROL DATA

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

QC Batch: 296041 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40173283001, 40173283002, 40173283003, 40173283004, 40173283005, 40173283006

METHOD BLANK: 1729792 Matrix: Solid

Associated Lab Samples: 40173283001, 40173283002, 40173283003, 40173283004, 40173283005, 40173283006

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	08/01/18 09:37	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	08/01/18 09:37	
Benzene	ug/kg	<25.0	50.0	08/01/18 09:37	
Ethylbenzene	ug/kg	<25.0	50.0	08/01/18 09:37	
m&p-Xylene	ug/kg	<50.0	100	08/01/18 09:37	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	08/01/18 09:37	
Naphthalene	ug/kg	<25.0	50.0	08/01/18 09:37	
o-Xylene	ug/kg	<25.0	50.0	08/01/18 09:37	
Toluene	ug/kg	<25.0	50.0	08/01/18 09:37	
a,a,a-Trifluorotoluene (S)	%	97	80-120	08/01/18 09:37	

LABORATORY CONTROL SAMPL	E & LCSD: 1729793		17	29794		•	•		•	
		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	1020	1030	102	103	80-120	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	996	1010	100	101	80-120	1	20	
Benzene	ug/kg	1000	939	948	94	95	80-120	1	20	
Ethylbenzene	ug/kg	1000	990	1000	99	100	80-120	1	20	
m&p-Xylene	ug/kg	2000	1960	2000	98	100	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	942	950	94	95	80-120	1	20	
Naphthalene	ug/kg	1000	946	958	95	96	80-120	1	20	
o-Xylene	ug/kg	1000	980	994	98	99	80-120	1	20	
Toluene	ug/kg	1000	955	972	96	97	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				97	97	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.

(920)469-2436



QUALITY CONTROL DATA

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

QC Batch: 295961 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40173283001, 40173283002, 40173283003, 40173283004, 40173283005, 40173283006

SAMPLE DUPLICATE: 1729574

Date: 08/02/2018 12:04 PM

		40173277002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	4.7	4.6	3	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.



QUALIFIERS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

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

WORKORDER QUALIFIERS

WO: 40173283

[1] Revised - client - Revised -001 and -002 sample ID's per client's updated COC. SVM 8/2/18

ANALYTE QUALIFIERS

Date: 08/02/2018 12:04 PM

- 1q Results are from sample aliquot taken from a jar with head space and preserved with MeOH in the laboratory.
- P4 Sample field preservation does not meet EPA or method recommendations for this analysis.
- S7 Surrogate recovery outside control limits (not confirmed by re-analysis).
- W Non-detect results are reported on a wet weight basis.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

Date: 08/02/2018 12:04 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40173283001	DIRTY LANDFILL SAMPLE	TPH GRO/PVOC WI ext.	296041	WI MOD GRO	296086
40173283002	EAST ADJACENT TO FOOTING @ 6'	TPH GRO/PVOC WI ext.	296041	WI MOD GRO	296086
40173283003	SW BASE/WALL @ 6'	TPH GRO/PVOC WI ext.	296041	WI MOD GRO	296086
40173283004	NW BASE/WALL @ 6'	TPH GRO/PVOC WI ext.	296041	WI MOD GRO	296086
40173283005	NE BASE/WALL @ 6'	TPH GRO/PVOC WI ext.	296041	WI MOD GRO	296086
40173283006	N BASE/WALL @ 6'	TPH GRO/PVOC WI ext.	296041	WI MOD GRO	296086
40173283001	DIRTY LANDFILL SAMPLE	ASTM D2974-87	295961		
40173283002	EAST ADJACENT TO FOOTING @ 6'	ASTM D2974-87	295961		
40173283003	SW BASE/WALL @ 6'	ASTM D2974-87	295961		
40173283004	NW BASE/WALL @ 6'	ASTM D2974-87	295961		
40173283005	NE BASE/WALL @ 6'	ASTM D2974-87	295961		
40173283006	N BASE/WALL @ 6'	ASTM D2974-87	295961		

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Exce	tions	to pr	eserv	ation (check	: VOA	, Coli	iform,	TOC,	TOX,	тон	O&G	, WI E	DRO, I	heno	lics, C	ther:			Head	Ispac	e in V	OA Vi	als (>6	Smm) :	∵⊟Yes	oNo	jarÑ/A	*If ye	s look	in hea	dspace	column
AG1U	1 lite	er am	ber g	lass	***************************************		***************************************	В	21U	1 lite	er plas	tic un	pres			Do	 59A	40 m	nl am	ber as	corbi	C.		10	FU.	4 07	ambe	er iar ı	unpres				1
AG1H	9		•		CL			1	2N		mL pla		•				G9T	1		ber Na				1	GFU	9		jar ur					
AG4S	AG4S 125 mL amber glass H2SO4 BP2Z 500 mL plastic				astic N	NaOH,	Znact	İ	V	39U	40 m	nL clea	ar vial	unpre	es		W	PFU	4 oz	4 oz plastic jar unpres													
l .	AG4U 120 mL amber glass unpres BP3U					•				VG9H 40 mL clear vial HCL													•										
AG5U	9								P3C	E	mL pla						9M			ar vial		Н			P5T		,		Va Thi	osulfat	e		
AG2S BG3U	8					4			23N 23S		mL pla mL pla			L		ľ	59D	40 m	nL clea	ar vial	וט			Z	PLC GN:		c bag						l
5030	230	IIIL CI	cai gi	ass U	inhi e2			L		230	iiir þi	astic F	12304	,		L	_	<u></u>						<u> </u>	GIV	<u> </u>							l

Pace Analytical" 1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.:

Document Revised: 25Apr2018

F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name:	Mora	1.10	Project		173283
Courier: CS Logistic	-		Waltco	######################################	
Tracking #: Custody Seal on Coole Custody Seal on Sample Packing Material: Thermometer Used Cooler Temperature Temp Blank Present: Temp should be above free: Biota Samples may be rece Chain of Custody Preser Chain of Custody Filled C	Bubble Wrap B SR - WA Uncorr: PGF ICorr Ves No zing to 6°C. ived at ≤ 0°C.	no Seals ir ubble Bags Type of Ice: Biologi	None Cother Wet Blue Dry None cal Tissue is Froze	e Samples on ice, n: yes no	cooling process has begun Person examining contents: pate: 7/3///8/
Chain of Custody Reling Sampler Name & Signate Samples Arrived within F - VOA Samples fr Short Hold Time Analys	ure on COC: Hold Time: ozen upon receipt	Yes □No □ Yes □No □ Yes □No □Yes □No □Yes □No	□N/A 3. □N/A 4. 5. □Date/Time: 6.		
Rush Turn Around Tim Sufficient Volume: フ/ For Analysis	31/18/	Yes □No		ict-no volume	7/31/181
Correct Containers Used -Pace Containers Use -Pace IR Containers I	ed:	⊠Yes □No □Yes □No □			
Containers Intact: Filtered volume received Sample Labels match Co -Includes date/time/ID	DC:	21211112/1/68	10. ZN/A 11. □N/A 12. ○01 ← 30 3 ~ 12. ○01 ← 30 3 ~ V.C.	o epth 115-no deth 11m 7131118	7(81)
Trip Blank Present: Trip Blank Custody Seals Pace Trip Blank Lot # (if	purchased):	□Yes □No ∫			
Client Notification/ Res Person Contacted Comments/ Resolution			Date/Time:	If checked, see attached f	orm for additional comments
Project Manager Rev	riew:			Date:	1/31/18





Requested Facility: Pheasant Run RDF Multiple Generator Locations (Attach Locations) Requested Facility: Pheasant Run RDF	equest Certifica	☐ Unsure Profile Number: 129							
A. GENERATOR INFORMATION (MATERIAL ORIGIN)									
Generator Name: AP50, LLC		B. BILLING INFORMATION 1. Billing Name: Moraine Environmental, Inc.							
2. 6'1. A.1.1. 0004.20nd Avenue		2. Billing Address: 766 Tower Drive							
		(City, State, ZIP) Fredonia WI 53021							
(City, State, ZIP) Kenosha WI 53143									
3. County: Kenosha		3. Contact Name: Thomas Sweet							
4. Contact Name: <u>Tom Sweet</u>									
5. Email: moraine@execpc.com		5. Phone: <u>(262) 692-3345</u> 6. Fax: <u>(262) 692-</u>							
6. Phone: <u>(262) 692-3345</u> 7. Fax: <u>(262) 692-33</u>		7. WM Hauled?	☐ Yes	∠ No					
8. Generator EPA ID:		8. P.O. Number: 6462							
9. State ID:	I N/A	9. Payment Method: ☑ Credit Account ☐ Cash ☐	Credit Ca	ırd					
C. MATERIAL INFORMATION		D. REGULATORY INFORMATION							
1. Common Name: Unleaded Gasoline Contaminated Soil		1. EPA Hazardous Waste?	☐ Yes*	☑ No					
	See Attached	Code:							
Former unleaded gasoline tank, dispenser and line	system.	2. State Hazardous Waste? Code:	☐ Yes	☑ No					
		3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion?	☐ Yes*	☑ No					
2. Material Composition and Contaminants:	See Attached	4. Contains Underlying Hazardous Constituents?	☐ Yes*	☑ No					
1. Soi1/Pea Grave1	99.99 %	5. From an industry regulated under Benzene NESHAP?	☐ Yes*						
2. Contaminated Soil	0.01 %	6. Facility remediation subject to 40 CFR 63 GGGGG?	☐ Yes*						
3.		7. CERCLA or State-mandated clean-up?	☐ Yes*						
4.		8. NRC or State-regulated radioactive or NORM waste?							
Total comp. must be equal to or greater than 100%	≥100%	*If Yes, see Addendum (page 2) for additional questi							
3. State Waste Codes:	■ N/A	9. Contains PCBs? → If Yes, answer a, b and c.	☐ Yes						
4. Color: Brown		a. Regulated by 40 CFR 761?	☐ Yes						
5. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Other:		b. Remediation under 40 CFR 761.61 (a)?	☐ Yes						
6. Free Liquid Range Percentage:toto		c. Were PCB imported into the US?	☐ Yes	□ No					
7. pH: 6.0 to 9.0		10. Regulated and/or Untreated Medical/Infectious Waste?	Yes	No					
8. Strong Odor: Yes No Describe:		11. Contains Asbestos?	☐ Yes	⊅ No					
9. Flash Point: □ <140°F □ 140°−199°F □ ≥200°		→ If Yes: □ Non-Friable □ Non-Friable – Regula							
9. Hash Foliit. 4 (140 1 4 140 - 1991 4 2200	■ N/A	7 II les. a Noti-Itiable a Noti-Itiable - Negui	iteu 🗖 i	THADIC					
E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION		F. SHIPPING AND DOT INFORMATION							
1. Analytical attached	Yes	1. ■ One-Time Event □ Repeat Event/Ongoing Busin	ess						
Please identify applicable samples and/or lab reports:		2. Estimated Quantity/Unit of Measure: <u>15</u>							
Pace Labs Project 40171991 report dated July 16, 2018		☑ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other	:						
		3. Container Type and Size: Bulk-Dump Truck							
		4. USDOT Proper Shipping Name:	į	☑ N/A					
2. Other information attached (such as MSDS)?	☐ Yes								
G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY By signing this EZ Profile™ form, I hereby certify that all information sub all relevant information necessary for proper material characterization a from a sample that is representative as defined in 40 CFR 261 - Appen- in the process or new analytical) will be identified by the Generator and	omitted in this and and to identify kno dix 1 or by using a	own and suspected hazards has been provided. Any analytical data atta an equivalent method. All changes occurring in the character of the ma	ched was de terial (i.e., cl	erived					
If I am an agent signing on behalf of the Generator, I have confir Generator that information contained in this Profile is accurate	med with the	Certification Signature							
Name (Print): Tom Sweet Date: C	07/23/2018	Jan Caraca							
Title: President		70m Sweet							

Company: Moraine Environmental



Non-Hazardous WAM Approval

Requested Management Facility: Pheasant Run RDF

Profile Number: BIO129797WI		Waste Acceptance Expiration Date:	07/23/2019	
Common Name: <u>Unleaded Gasoline Cont</u>	aminated Soil	WM Regulatory Volume Limit:		_ ☑ NA
APPROVAL DETAILS				
Approval Decision: ☑ Approved ☐ Not Ap	oproved		Profile Renewal:	☑ No
Management Method: Bioremediation				
Generator Name: AP50, LLC				
Profile Expiration Date: <u>07/23/2019</u>				
Periodic Testing Due Date:	☑ NA			
Other Due Date:		(Specify)		
Management Facility Precautions, Special Ha				
Generator Conditions				
- Shipment must be scheduled int	to the disposal fa	cility at least 24 <mark>h</mark> ours in advan	ce. Contact information	on will
be provided by your TSR.				
- The waste profile number must	appear on the shi	pping papers.		
WM Authorization Name: Ben Dahlby	2hl	Title: <u>Waste Approval Man</u>		
WM Authorization Signature:	V 153		Date: <u>07/23/2018</u>	
Agency Authorization (if Required):			Date:	

Date	Profile #	Manifest #	Ticket #	Material	Facility	Tons / Tonnes	Material Quantity	Materi: Unit
07/27/2018	BIO129797WI	180727300	556271	UNLEADED GASOLINE CONTAMINATED SOIL WM012B	Pheasant Run RDF	6.14	6.14	TON