

## 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 22<sup>nd</sup> 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.

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

## Definitions

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

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

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

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

## Select the Correct Form

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

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

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

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

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

## Instructions

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

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

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

Form 4400-237 (R 9/15)

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## Section 1. Contact and Recipient Information

### Requester Information

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

|   |                           |                            |  |
|---|---------------------------|----------------------------|--|
| Last Name<br>Perrine                          | First<br>Lou              | MI                         | Organization/ Business Name<br>O-Line 50, Inc. |
| Mailing Address<br>5145 Sheridan Road         |                           |                            | City<br>Kenosha                                |
|   |                           |                            | State<br>WI                                    |
|   |                           |                            | ZIP Code<br>53140                              |
| Phone # (include area code)<br>(262) 620-3326 | Fax # (include area code) | Email<br>louperine@aol.com |  |

The requester listed above: (select all that apply)

- Is currently the owner
  Is considering selling the Property  
 Is renting or leasing the Property
  Is considering acquiring the Property  
 Is a lender with a mortgagee interest in the Property  
 Other. Explain the status of the Property with respect to the applicant:

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

Select if same as requester

|   |   |                             |  |
|---|---|-----------------------------|--|
| Contact Last Name<br>Sweet                    | First<br>Tom                                | MI                          | Organization/ Business Name<br>Moraine Environmental, Inc. |
| Mailing Address<br>766 Tower Drive            |   |                             | City<br>Fredonia   |
|   |   |                             | State<br>WI  |
|   |   |                             | ZIP Code<br>53021  |
| Phone # (include area code)<br>(262) 692-3345 | Fax # (include area code)<br>(262) 692-3348 | Email<br>moraine@execpc.com |  |

### Environmental Consultant (if applicable)

|   |   |                             |  |
|---|---|-----------------------------|--|
| Contact Last Name<br>Sweet                    | First<br>Tom                                | MI                          | Organization/ Business Name<br>Moraine Environmental, Inc. |
| Mailing Address<br>766 Tower Drive            |   |                             | City<br>Fredonia   |
|   |   |                             | State<br>WI  |
|   |   |                             | ZIP Code<br>53021  |
| Phone # (include area code)<br>(262) 692-3345 | Fax # (include area code)<br>(262) 692-3348 | Email<br>moraine@execpc.com |  |

## Section 2. Property Information

|                                      |   |
|--------------------------------------|---|
| Property Name<br>U.S. Petroleum      | FID No. (if known)<br>230041350   |
| BRRTS No. (if known)<br>03-30-563222 | Parcel Identification Number<br>04-122-12-401-001   |
| Street Address<br>8004 22nd Avenue   | City<br>Kenosha   |
|                                      | State<br>WI   |
|                                      | ZIP Code<br>53143   |
| County<br>Kenosha                    | Municipality where the Property is located<br><input checked="" type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village of Kenosha |
|                                      | Property is composed of:<br><input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels                               |
|                                      | Property Size Acres<br>0  |

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

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

No  Yes

Date requested by: 08/17/2018

Reason: NFA approval by DNR to expedite financing needed for construction.

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

No. **Include the fee that is required for your request in Section 3, 4 or 5.**

Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

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

**Section 3. Technical Assistance or Post-Closure Modifications;**

**Section 4. Liability Clarification; or Section 5. Specialized Agreement.**

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

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

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

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

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

Post-Closure Modifications - NR 727, [181]

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

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

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

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

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## Section 4. Request for Liability Clarification

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

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

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the real Property, and/or the personal Property and fixtures;
- (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
- (3) the date the environmental assessment was conducted by the lender;
- (4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
- (5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
- (6) a copy of the Property deed with the correct legal description; and,
- (7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
- (8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,h.-i., Wis. Stats.:
  - h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
  - i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

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

❖ **Include a fee of \$700.**

Provide the following documentation:

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

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

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

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

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

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

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## Section 4. Request for Liability Clarification (cont.)

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

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

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

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

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

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

❖ **Include a fee of \$700.**

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

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

❖ **Include a fee of \$700.**

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

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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).

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

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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/Igu.html#tabx4](http://dnr.wi.gov/topic/Brownfields/Igu.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](http://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](http://dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf)).

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

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

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

## Section 6. Other Information Submitted

Identify all materials that are included with this request.

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

Phase I Environmental Site Assessment Report - Date: \_\_\_\_\_

Phase II Environmental Site Assessment Report - Date: \_\_\_\_\_

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

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

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

Groundwater     Soil     Sediment     Other medium - Describe: \_\_\_\_\_

Date of Collection: \_\_\_\_\_

A copy of the closure letter and submittal materials

Draft tax cancellation agreement

Draft agreement for assignment of tax foreclosure judgment

Other report(s) or information - Describe: 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](http://dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf).



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

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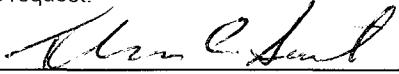
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**Section 7. Certification by the Person who completed this form**

I am the person submitting this request (requester)

I prepared this request for: Lou Perrine  
Requester Name

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



Signature

8/3/2018

Date Signed

President

Title

1-202-692-3345

Telephone Number (include area code)

Moraine Environmental, Inc

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

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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 [DNR regional brownfields specialist](#) with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

### DNR NORTHERN REGION

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

### DNR NORTHEAST REGION

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

### DNR SOUTH CENTRAL REGION

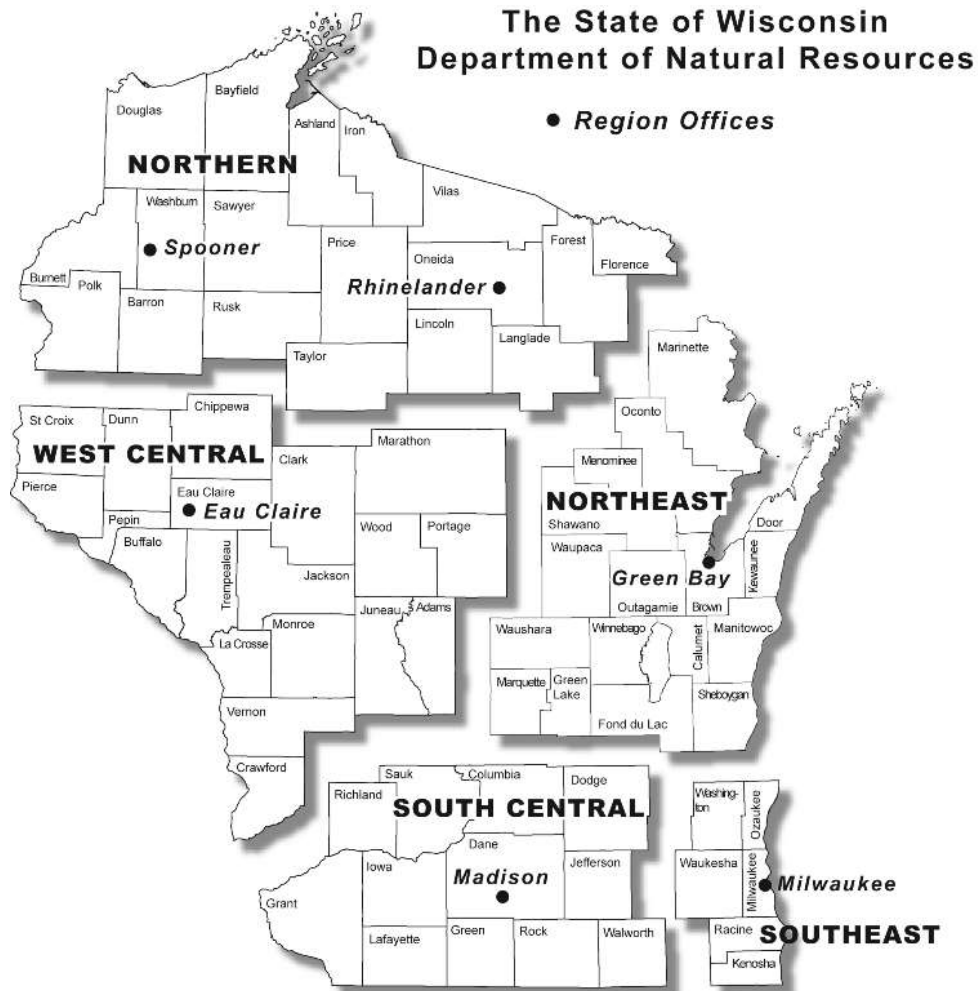
Attn: RR Program Assistant  
Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg WI 53711

### DNR SOUTHEAST REGION

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

### DNR WEST CENTRAL REGION

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



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



**DISCLAIMER** This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, data and information located in various state, county and municipal offices and other sources affecting the area shown and is to be used for reference purposes only. Kenosha County is not responsible for any inaccuracies herein contained. If discrepancies are found, please contact Kenosha County.

**Soil Excavation Activities - July 27, 2018**  
U.S. Petroleum, Inc. - 8004 22<sup>nd</sup> Avenue, Kenosha, WI 53143



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



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



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



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

| Sample ID   | TSSA Samples |               | Sub-Surface Assessment Samples |         |        |         |        |         |        |         |        |         | Excavation Confirmation Samples |                              |                     |                     |                     |                    | Groundwater Pathway RCLs | Non-Industrial Direct Contact Pathway RCLs | Industrial Direct Contact Pathway RCLs |
|---|--------------|---------------|--------------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|---------------------------------|------------------------------|---------------------|---------------------|---------------------|--------------------|--------------------------|--|--|
|   | SS13         | SS14          | GP-1                           |         | GP-2   |         | GP-3   |         | GP-4   |         | GP-5   |         | 001<br>Dirty Landfill Sample    | 002<br>E Adjacent to Footing | 003<br>SW Base/Wall | 004<br>NW Base/Wall | 005<br>NE Base/Wall | 006<br>N Base/Wall |                          |  |  |
| 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                  |                          |  |  |
| 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            |                          |  |  |
| <b>Petroleum Volatile Organic Compounds (µg/kg)</b> |              |               |                                |         |        |         |        |         |        |         |        |         |                                 |                              |                     |                     |                     |                    |                          |  |  |
| 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                       | <b>219000</b>                              | <b><u>219000</u></b>                   |
| 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                       | <b>182000</b>                              | <b><u>182000</u></b>                   |
| 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                      | <b>1600</b>                                | <b><u>7070</u></b>                     |
| Ethylbenzene  | <25          | <b>3570</b>   | <25.0                          | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <b>2380</b>                     | <25.0                        | <25.0               | <25.0               | <25.0               | <25.0              | 1570                     | <b>8020</b>                                | <b><u>35400</u></b>                    |
| Methyl-tert-butyl ether                             | <25          | <b>501 J</b>  | <25.0                          | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <b>812</b>                      | <25.0                        | <25.0               | <25.0               | <25.0               | <25.0              | 27                       | <b>63800</b>                               | <b><u>282000</u></b>                   |
| Naphthalene   | <25          | <b>5890</b>   | <25.0                          | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <b>3040</b>                     | <25.0                        | <25.0               | 46.7 J              | <25.0               | <25.0              | 658.7                    | <b>5520</b>                                | <b><u>24100</u></b>                    |
| 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                   | <b>818000</b>                              | <b><u>818000</u></b>                   |
| 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          | <b>55,200</b> | <50                            | <50     | <50    | <50     | <50    | <50     | <50    | <50     | <50    | <50     | <b>57600</b>                    | <50                          | <50                 | 104                 | <50                 | <50                | 1378.7                   | NS   | NS                                     |
| Total Xylenes                                       | <25          | <b>11030</b>  | <75                            | <75     | <75    | <75     | <75    | <75     | <75    | <75     | <75    | <75     | 3567                            | <75                          | <75                 | <75                 | <75                 | <75                | 3940                     | <b>260000</b>                              | <b><u>260000</u></b>                   |

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

**Bold Underlined** - 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 Mleczo  
steve.mleczo@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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### 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

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## REPORT OF LABORATORY ANALYSIS

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## 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 |

## REPORT OF LABORATORY ANALYSIS

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### 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 | AH       | 1                 | PASI-G     |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-1 (5-7.5)**      **Lab ID: 40171991001**      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 |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 99      | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 10:41 | 98-08-8     |      |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 14.9    | %     | 0.10   | 0.10 | 1  |                | 07/12/18 15:57 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-1 (12.5-15)      Lab ID: 40171991002      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 101     | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 11:07 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 12.6    | %     | 0.10   | 0.10 | 1  |                | 07/12/18 16:46 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-2 (5-7.5)**      **Lab ID: 40171991003**      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 100     | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 11:33 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 19.3    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-2 (12.5-15)**      **Lab ID: 40171991004**      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 |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 99      | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 11:59 | 98-08-8     |      |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 20.8    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-3 (5-7.5)**      **Lab ID: 40171991005**      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 100     | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 12:24 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 17.3    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:06 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-3 (12.5-15)      Lab ID: 40171991006      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 99      | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 13:41 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 12.2    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-4 (5-7.5)**      **Lab ID: 40171991007**      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 100     | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 14:07 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 19.2    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-4 (12.5-15)**      **Lab ID: 40171991008**      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 |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 99      | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 14:33 | 98-08-8     |      |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 10.5    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**Sample: GP-5 (2.5-5)**      **Lab ID: 40171991009**      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 |
|--|-------------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |             |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>  |             |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 100         | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 14:58 | 98-08-8     |      |
| <b>Percent Moisture</b>  |             |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |             |       |        |      |    |                |                |             |      |
| Percent Moisture   | <b>16.8</b> | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

**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 |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 100     | %     | 80-120 |      | 1  | 07/06/18 07:40 | 07/06/18 15:24 | 98-08-8     | 1q   |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 12.3    | %     | 0.10   | 0.10 | 1  |                | 07/13/18 08:34 |             |      |

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### QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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

| Parameter                  | Units | Blank Result | Reporting 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 & LCSD: 1717923

1717924

| Parameter                  | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2,4-Trimethylbenzene     | ug/kg | 1000        | 1030       | 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       |     |         |            |

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### QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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

| Parameter        | Units | 40171991001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 14.9                  | 14.6          | 2   | 10         |            |

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### QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 12.6                  | 13.5          | 7   | 10         |            |

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### QUALITY CONTROL DATA

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

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

| Parameter        | Units | 40171991005<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 17.3                  | 16.8          | 3   | 10         |            |

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### 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

| Parameter        | Units | 40171991006<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 12.2                  | 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.

### REPORT OF LABORATORY ANALYSIS

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## 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

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

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6462 FORMER DRAKE'S

Pace Project No.: 40171991

| Lab ID      | Sample ID      | QC Batch Method      | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|----------------------|----------|-------------------|------------------|
| 40171991001 | GP-1 (5-7.5)   | TPH GRO/PVOC WI ext. | 293774   | WI MOD GRO        | 293799           |
| 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   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: MORaine ENVIRONMENTAL  
 Branch/Location: FREDONIA  
 Project Contact: TOM SWEET  
 Phone: 262-692-3345  
 Project Number: 6462  
 Project Name: FORMER DRAKE'S  
 Project State: WI  
 Sampled By (Print): COLLEEN DUFFY  
 Sampled By (Sign): *Colleen Duffy*  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40171991

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y/N                | N            | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pick Letter        | F            | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Analyses Requested | P VOC + Nap. |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | Dry wt.      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                    | X            | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Quote #: \_\_\_\_\_  
 Mail To Contact: TOM SWEET  
 Mail To Company: MORaine ENVIRONMENTAL  
 Mail To Address: 706 TOWER DR FREDONIA, WI 53021  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: SAME AS ABOVE  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 Sl = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION |      | MATRIX | Y/N | F | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|-----------------|------------|------|--------|-----|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|            |                 | DATE       | TIME |        |     |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 001        | GP-1 (6-7.5)    | 7/3/18     |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 002        | GP-1 (12.5-15)  |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 003        | GP-2 (6-7.5)    |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 004        | GP-2 (12.5-15)  |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 005        | GP-3 (6-7.5)    |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 006        | GP-3 (12.5-15)  |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 007        | GP-4 (6-7.5)    |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 008        | GP-4 (12.5-15)  |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 009        | GP-5 (6-7.5)    |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 010        | GP-5 (12.5-15)  |            |      | S      | X   | X |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):

|                                       |                         |                               |                         |
|---------------------------------------|-------------------------|-------------------------------|-------------------------|
| Relinquished By: <i>Colleen Duffy</i> | Date/Time: _____        | Received By: <i>Tom Sweet</i> | Date/Time: 7/5/18 12:30 |
| Relinquished By: <i>Tom Sweet</i>     | Date/Time: 7/5/18 14:20 | Received By: <i>Tom Sweet</i> | Date/Time: 7/5/18 14:20 |
| Relinquished By: _____                | Date/Time: _____        | Received By: _____            | Date/Time: _____        |
| Relinquished By: _____                | Date/Time: _____        | Received By: _____            | Date/Time: _____        |

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40171991  
 Receipt Temp = RO I °C  
 Sample Receipt pH OK / Adjusted  
 Cooler Custody Seal Present / Not Present Intact / Not Intact

**Sample Preservation Receipt Form**

Client Name: Moaine Environmental Project # 40171991

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

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass |      |      |      |      |      |      | Plastic |      |      |      |      |      |      | Vials |      |      |      | Jars |      |      | General |      |      | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |      |    |  |  |  |  |              |
|------------|-------|------|------|------|------|------|------|---------|------|------|------|------|------|------|-------|------|------|------|------|------|------|---------|------|------|--------------------|-------------|-------------------|-------------|------------|-------------------|-------------|------|----|--|--|--|--|--------------|
|            | AG1U  | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U | BP1U    | BP2N | BP2Z | BP3U | BP3C | BP3N | BP3S | DG9A  | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | WGFU    | WPFU | SP5T |                    |             |                   |             |            |                   |             | ZPLC | GN |  |  |  |  |              |
| 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 |
| 008        |       |      |      |      |      |      |      |         |      |      |      |      |      |      |       |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |    |  |  |  |  | 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  N/A \*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    | SP5T | 120 mL plastic Na Thiosulfate |
| AG5U | 100 mL amber glass unpres | BP3C | 250 mL plastic NaOH        | VG9M | 40 mL clear vial MeOH   | ZPLC | ziploc bag                    |
| AG2S | 500 mL amber glass H2SO4  | BP3N | 250 mL plastic HNO3        | VG9D | 40 mL clear vial DI     | GN:  |                               |
| BG3U | 250 mL clear glass unpres | BP3S | 250 mL plastic H2SO4       |      |                         |      |                               |



Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**F-GB-C-031-Rev.07**

Document Revised: 25Apr2018  
 Issuing Authority:  
 Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Client Name: Moraine Environmental

Project #: \_\_\_\_\_  
**WO# : 40171991**  
  
 40171991

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: \_\_\_\_\_

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used SR - N/A Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R/T /ICorr: \_\_\_\_\_

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 7/5/18  
 Initials: SSM

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C.

|  |   |   |
|--|---|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 1.  |
| Chain of Custody Filled Out:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 2. No date/time, Proj # <u>SSM 7/5/18</u> |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. No date/time <u>SSM 7/5/18</u>         |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 4.  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 5.  |
| - VOA Samples frozen upon receipt  | <input type="checkbox"/> Yes <input type="checkbox"/> No  | Date/Time: _____                          |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 6.  |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | 7.  |
| Sufficient Volume:   |   | 8.  |
| For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |   |   |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 9.  |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |   |
| -Pace IR Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   | 10.                                       |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            | 11.                                       |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 12.                                       |
| -Includes date/time/ID/Analysis Matrix: <u>S</u>   |   |   |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            | 13.                                       |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            |   |
| Pace Trip Blank Lot # (if purchased): _____  |   |   |

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Project Manager Review: UW Date: 7/5/18

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

Page 1 of 1

|  |                          |   |   |
|--|--------------------------|---|---|
| Facility/Project Name<br><b>US PETROLEUM INC (FORMER DRAKE'S AUTOMOTIVE)</b>                                     |                          | License/Permit/Monitoring Number                              | Boring Number<br><b>GP-1</b>                                    |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: <b>GREG</b> Last Name: <b>WESTER</b> |                          | Date Drilling Started<br><b>07/03/2018</b><br>m m d d y y y y | Date Drilling Completed<br><b>07/03/2018</b><br>m m d d y y y y |
| Firm: <b>HORIZON CONSTRUCTION + EXPLORATION</b>  |                          | Drilling Method<br><b>DIRECT PUSH</b>                         |   |
| WI Unique Well No.   | DNR Well ID No.          | Well Name   |   |
|  |                          | Final Static Water Level<br>Feet MSL                          | Surface Elevation<br><b>~620</b> Feet MSL                       |
|  |                          |   | Borehole Diameter<br><b>2.29</b> inches                         |
| Local Grid Origin <input type="checkbox"/> (estimated) or Boring Location <input type="checkbox"/>               |                          | Local Grid Location   |   |
| State Plane <u>NE</u> N, <u>SE</u> E   |                          | Lat <u>0</u> ' "  | Long <u>0</u> ' "   |
| <u>NE</u> 1/4 of <u>SE</u> 1/4 of Section <u>12</u> , T <u>01</u> N, R <u>22</u> E                               |                          | Feet <input type="checkbox"/> N <input type="checkbox"/> E    | Feet <input type="checkbox"/> S <input type="checkbox"/> W      |
| Facility ID<br><b>230041350</b>  | County<br><b>KENOSHA</b> | County Code<br><b>30</b>                                      | Civil Town/City/ or Village<br><b>CITY OF KENOSHA</b>           |

| Sample Number and Type | Length At. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  | P 200 | RQD/ Comments |
|------------------------|-----------------------------|-------------|--------------------------------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                             |             |                                      |   |      |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index |       |               |
| (5-7.5) GP-1           | 60/60                       |             | 1.5                                  | Sand + gravel   | GW   |             |              | 0       |                      |                  |              |                  |       |               |
|                        |                             |             | 5                                    | Silty Sand<br>(2" limestone rock observed at 55"/4.5' BGS)    | SM   |             |              | 0       |                      | D                |              |                  |       |               |
| (12.5-15) GP-1         | 60/60                       |             | 6.5                                  | Silty fine sands to silty clay<br>hard, gray clay             | ML   |             |              | 0       |                      |                  |              |                  |       |               |
|                        |                             |             | 10                                   | as above, wet   | CL   |             |              | 0       |                      | D                |              |                  |       |               |
|                        |                             |             | 15                                   | EOB @ 15' BGS   | CL   |             |              | 0       |                      | W                |              |                  |       |               |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Colleen Duffy* Firm MORAINÉ ENVIRONMENTAL, INC.

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.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

Page 1 of 1

|   |                          |   |   |
|---|--------------------------|---|---|
| Facility/Project Name<br><b>US PETROLEUM INC (FORMER DRAKE'S AUTOMOTIVE)</b>  |                          | License/Permit/Monitoring Number                              | Boring Number<br><b>GP-2</b>                                    |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: <b>GREG</b> Last Name: <b>WESTER</b>              |                          | Date Drilling Started<br><b>07/03/2018</b><br>m m d d y y y y | Date Drilling Completed<br><b>07/03/2018</b><br>m m d d y y y y |
| Firm: <b>HORIZON CONSTRUCTION + EXPLORATION</b>   |                          | Drilling Method<br><b>DIRECT PUSH</b>                         |   |
| WI Unique Well No.  | DNR Well ID No.          | Well Name   |   |
|   |                          | Final Static Water Level<br>Feet MSL                          | Surface Elevation<br><b>~ 620</b> Feet MSL                      |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> |                          | Local Grid Location   |   |
| State Plane N, E  |                          | Lat 0 ' "   | Feet <input type="checkbox"/> N <input type="checkbox"/> E      |
| NE 1/4 of SE 1/4 of Section 12, T 01 N, R 22 E  |                          | Long 0 ' "  | Feet <input type="checkbox"/> S <input type="checkbox"/> W      |
| Facility ID<br><b>230041350</b>   | County<br><b>KENOSHA</b> | County Code<br><b>30</b>                                      | Civil Town/City/ or Village<br><b>CITY OF KENOSHA</b>           |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |  |  |
|------------------------|------------------------------|-------------|--------------------------------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|--|--|
|                        |                              |             |                                      |   |      |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |  |  |
| GP-2<br>(5-7.5)        | 48/60                        |             | 1                                    | 4" asphalt  |      |             |              |         |                      |                  |              |                  |       |               |  |  |
|                        |                              |             | 2                                    | 4" gravel   |      |             |              |         |                      |                  |              |                  |       |               |  |  |
| GP-2<br>(7.5-15)       | 9/60                         |             | 2                                    | 12" silty sand  | SM   |             |              | 0       |                      | M                |              |                  |       |               |  |  |
|                        |                              |             |                                      | 12" fine sand (black)   |      |             |              |         |                      |                  |              |                  |       |               |  |  |
|                        |                              |             |                                      | fine sand (brown)   |      |             |              |         |                      |                  |              |                  |       |               |  |  |
| GP-2<br>(12.5-15)      | 9/60                         |             | 5                                    | as above, wet fine sand                                       | SM   |             |              | 0       |                      | W                |              |                  |       |               |  |  |
|                        |                              |             | 8                                    | silty clay, brittle (gray)                                    | CL   |             |              | 0       |                      | M                |              |                  |       |               |  |  |
|                        |                              |             | 10                                   | silty sand, wet   | SM   |             |              | 0       |                      |                  |              | W                |       |               |  |  |
|                        |                              |             | 15                                   | EOB @ 15' BGS   |      |             |              |         |                      |                  |              |                  |       |               |  |  |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Colleen Duffy* Firm: **MORAINES ENVIRONMENTAL, INC.**

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

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|  |                          |   |   |
|--|--------------------------|---|---|
| Facility/Project Name<br><b>US PETROLEUM INC (FORMER DRAKE'S AUTOMOTIVE)</b>                                     |                          | License/Permit/Monitoring Number                              | Boring Number<br><b>GP-3</b>  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: <b>GREG</b> Last Name: <b>WESTER</b> |                          | Date Drilling Started<br><b>07/03/2018</b><br>m m d d y y y y | Date Drilling Completed<br><b>07/03/2018</b><br>m m d d y y y y   |
| Firm: <b>HORIZON CONSTRUCTION + EXPLORATION</b>  |                          | Drilling Method<br><b>DIRECT PUSH</b>                         |   |
| WI Unique Well No.   | DNR Well ID No.          | Well Name   | Borehole Diameter<br><b>2.29</b> inches   |
| Local Grid Origin <input type="checkbox"/> (estimated) or Boring Location <input type="checkbox"/>               |                          | Final Static Water Level<br>Feet MSL                          | Surface Elevation<br><b>~ 620</b> Feet MSL  |
| State Plane <u>NE</u> <input type="checkbox"/> N, <u>SE</u> <input type="checkbox"/> E                           |                          | Lat <u>0</u> ' "  | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |
| NE 1/4 of SE 1/4 of Section <u>12</u> , T <u>01</u> N, R <u>22</u> E   |                          | Long <u>0</u> ' "   | Feet <input type="checkbox"/> S <input type="checkbox"/> W  |
| Facility ID<br><b>230041350</b>  | County<br><b>KENOSHA</b> | County Code<br><b>30</b>                                      | Civil Town/City/ or Village<br><b>CITY OF KENOSHA</b>   |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface)              | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |               | RQD/ Comments |
|------------------------|------------------------------|-------------|---|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|---------------|---------------|
|                        |                              |             |   |   |      |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200         |               |
| (5-7-5) GP-3           | 50/60                        |             | 4" asphalt<br>10" gravel<br>12" fine sand (black) | Silty fine sands to silty clay (gray)                         | ML   |             |              | 0       |                      | M                |              |                  |               |               |
|                        |                              |             |   |   |      |             |              |         |                      |                  |              |                  |               |               |
| (12-5-15) GP-3         | 60/60                        |             | as above<br>Silty sand<br>hard gray clay          | CL  |      |             | 0            | D       |                      |                  |              |                  |               |               |
|                        |                              |             |   |   |      |             |              |         |                      |                  |              | 10               | wet fine sand | SM            |
|                        | 7.5                          |             | hard silty clay (gray),<br>brittle                | CL  |      |             | 0            | M       |                      |                  |              |                  |               |               |
|                        |                              |             |   |   |      |             |              |         |                      |                  |              |                  | 15            |               |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Colleen Duffy Firm MORAINES ENVIRONMENTAL, INC.

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

Page 1 of 1

|   |                 |   |   |
|---|-----------------|---|---|
| Facility/Project Name<br><b>US PETROLEUM INC (FORMER DRAKE'S AUTOMOTIVE)</b>  |                 | License/Permit/Monitoring Number  | Boring Number<br><b>GP-4</b>                                    |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: <b>GREG</b> Last Name: <b>WESTER</b>              |                 | Date Drilling Started<br><b>07/03/2018</b><br>m m d d y y y y   | Date Drilling Completed<br><b>07/03/2018</b><br>m m d d y y y y |
| Firm: <b>HORIZON CONSTRUCTION + EXPLORATION</b>   |                 | Drilling Method<br><b>DIRECT PUSH</b>   |   |
| WI Unique Well No.  | DNR Well ID No. | Well Name   | Final Static Water Level<br>Feet MSL                            |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> |                 | Surface Elevation<br><b>~620</b> Feet MSL   |   |
| State Plane _____ N, _____ E  |                 | Borehole Diameter<br><b>2.29</b> inches   |   |
| <b>NE 1/4 of SE 1/4 of Section 12, T 01 N, R 22 E</b>   |                 | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |   |
| Facility ID<br><b>230041350</b>   |                 | County<br><b>KENOSHA</b>  | County Code<br><b>30</b>  |
| Civil Town/City/ or Village<br><b>CITY OF KENOSHA</b>   |                 |   |   |

| Sample Number and Type | Length Attr. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit     | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|-------------------------------|-------------|--------------------------------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                               |             |                                      |   |      |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
|                        | 45/60                         |             |                                      | 4" asphalt<br>5" gravel fill<br>silts and very fine sands (black) | ML   |             |              | 0       |                      | M                |              |                  |       |               |
|                        |                               |             |                                      | silts and very fine sands (brown)                                 | ML   |             |              | 0       |                      | D                |              |                  |       |               |
|                        |                               |             | 5                                    | as above, wet   | ML   |             |              | 0       |                      | W                |              |                  |       |               |
|                        |                               |             |                                      | silty clay  | CL   |             |              | 0       |                      | D                |              |                  |       |               |
|                        |                               |             | 10                                   | silty sand, wet   | SM   |             |              | 0       |                      | W                |              |                  |       |               |
|                        | 20/60                         |             |                                      | hard silty clay (gray), brittle                                   | CL   |             |              | 0       |                      | M                |              |                  |       |               |
|                        |                               |             | 15                                   | EOB @ 15' BGS   |      |             |              |         |                      |                  |              |                  |       |               |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: *Colleen Coffey* Firm: MORAINÉ ENVIRONMENTAL, INC.

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpment  Other

|   |                          |   |   |
|---|--------------------------|---|---|
| Facility/Project Name<br><b>US PETROLEUM INC (FORMER DRAKE'S AUTOMOTIVE)</b>  |                          | License/Permit/Monitoring Number                              | Boring Number<br><b>GP-5</b>  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>First Name: <b>GREG</b> Last Name: <b>WESTER</b><br>Firm: <b>HORIZON CONSTRUCTION + EXPLORATION</b> |                          | Date Drilling Started<br><b>07/03/2018</b><br>m m d d y y y y | Date Drilling Completed<br><b>07/03/2018</b><br>m m d d y y y y   |
| WI Unique Well No.  | DNR Well ID No.          | Well Name   | Drilling Method<br><b>DIRECT PUSH</b>   |
|   |                          | Final Static Water Level<br>Feet MSL                          | Surface Elevation<br><b>~620</b> Feet MSL   |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>                                       |                          | Borehole Diameter<br><b>2.29</b> inches                       |   |
| State Plane _____ N, _____ E  |                          | Lat _____ ' "   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |
| <b>NE 1/4 of SE 1/4 of Section 12, T 01 N, R 22 E</b>   |                          | Long _____ ' "  |   |
| Facility ID<br><b>230041350</b>   | County<br><b>KENOSHA</b> | County Code<br><b>30</b>                                      | Civil Town/City/ or Village<br><b>CITY OF KENOSHA</b>   |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | Soil/Rock Description And Geologic Origin For Each Major Unit | USCS | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|--------------------------------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |                                      |   |      |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| GP-5 (2.5-5)           | 25/60                        |             |                                      | Sand + gravel<br>- silts + very fine sands (black)            | SM   |             | 0            |         |                      | M                |              |                  |       |               |
|                        | 60/60                        |             |                                      | - silts + very fine sands (gray)                              | SM   |             | 0            |         |                      | M                |              |                  |       |               |
| GP-5 (2.5-15)          | 52/60                        |             | 5                                    | - silty sand (gray)<br>clay, brittle (brown to gray)          | CL   |             | 0            |         |                      | D                |              |                  |       |               |
|                        | 60/60                        |             |                                      |   | ML   |             | 0            |         |                      | D                |              |                  |       |               |
| GP-5 (2.5-15)          | 60/60                        |             | 10                                   | Sandy silt, wet<br>- hard silty clay (gray), wet              | CL   |             | 0            |         |                      | W                |              |                  |       |               |
|                        | 60/60                        |             |                                      |   | CL   |             | 0            |         |                      |                  |              |                  |       |               |
|                        |                              |             |                                      | EOB @ 15' BGS   |      |             |              |         |                      |                  |              |                  |       |               |

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Colleen Coffey Firm MORAINES ENVIRONMENTAL, INC.

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**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.

Verification Only of Fill and Seal

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information** **2. Facility / Owner Information**

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| County<br><b>KENOSHA</b>                                      |  | WI Unique Well # of Removed Well<br>_____                                  | Hicap #<br>_____   | Facility Name<br><b>US PETROLEUM, INC. (FORMER DRAKE'S AUTOMOTIVE)</b> |  |
| Latitude / Longitude (see instructions)<br>_____ N<br>_____ W |  | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 | Facility ID (FID or PWS)<br><b>230041350</b>                           |  |
| 1/4 / 1/4 <b>NE SE</b><br>or Gov't Lot #                      |  | Section<br><b>12</b>   | Township<br><b>01 N</b>  | Range<br><b>22</b>   | License/Permit/Monitoring #<br><b>GP-1</b> |
| Well Street Address<br><b>8004 22ND AVENUE</b>                |  | Well ZIP Code<br><b>53143</b>  |  | Original Well Owner<br>_____   |  |
| Well City, Village or Town<br><b>CITY OF KENOSHA</b>          |  | Lot #<br>_____   |  | Present Well Owner<br>_____  |  |
| Subdivision Name<br>_____                                     |  | City of Present Owner<br>_____   |  | State<br>_____   | ZIP Code<br>_____                          |

**3. Filled & Sealed Well / Drillhole / Borehole Information** **4. Pump, Liner, Screen, Casing & Sealing Material**

|   |   |  |  |   |  |
|---|---|--|--|---|--|
| Reason for Removal from Service<br><b>EXPLORATORY PROBE</b> | WI Unique Well # of Replacement Well<br>_____ | <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole  |  | Original Construction Date (mm/dd/yyyy)<br><b>07/03/2018</b><br>If a Well Construction Report is available, please attach.  |  |
| Construction Type:  |   | <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): <b>DIRECT PUSH</b>                           |  | Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A<br>Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A<br>If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Formation Type:   |   | <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock  |  | Required Method of Placing Sealing Material<br><input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped<br><input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>GRAVITY</b>   |  |
| Total Well Depth From Ground Surface (ft.)<br><b>15</b>     | Casing Diameter (in.)<br>_____                | Sealing Materials<br><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete<br><input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips |  | For Monitoring Wells and Monitoring Well Boreholes Only:<br><input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout<br><input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry  |  |
| Lower Drillhole Diameter (in.)<br><b>2.29</b>               | Casing Depth (ft.)<br>_____                   | Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>If yes, to what depth (feet)?<br>_____  |  | Total Well Depth From Ground Surface (ft.)<br>_____   |  |

| 5. Material Used to Fill Well / Drillhole |           |   |                         |
|---|-----------|---|-------------------------|
| From (ft.)                                | To (ft.)  | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
| Surface                                   | <b>15</b> | <b>0.429 ft<sup>3</sup></b>                     |                         |
|   |           |   |                         |

**6. Comments**

|  |                    |   |  |                                |
|--|--------------------|---|--|--------------------------------|
| <b>7. Supervision of Work</b>  |                    |   | <b>DNR Use Only</b>  |                                |
| Name of Person or Firm Doing Filling & Sealing<br><b>MORaine ENVIRONMENTAL</b> | License #<br>_____ | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br><b>07/03/2018</b> | Date Received<br>_____                                       | Noted By<br>_____              |
| Street or Route<br><b>7166 TOWER DRIVE</b>                                     |                    | Telephone Number<br><b>(262) 692-3345</b>                                   | Comments<br>_____  |                                |
| City<br><b>FREDONIA</b>  | State<br><b>WI</b> | ZIP Code<br><b>53021</b>  | Signature of Person Doing Work<br><i>Colleen [Signature]</i> | Date Signed<br><b>7/5/2018</b> |

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Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

| 1. Well Location Information                               |  |   |  | 2. Facility / Owner Information  |  |  |  |
|--|--|---|--|--|--|--|--|
| County<br><b>KENOSHA</b>                                   |  | WI Unique Well # of Removed Well<br>_____                               |  | Hicap #<br>_____   |  | Facility Name<br><b>US PETROLEUM, INC. (FORMER DRAKE'S AUTOMOTIVE)</b> |  |
| Latitude / Longitude (see instructions)<br>_____ N _____ W |  | Format Code<br><input type="checkbox"/> DD <input type="checkbox"/> DDM |  | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |  | Facility ID (FID or PWS)<br><b>230041350</b>                           |  |
| 1/4 1/4 <b>NE</b> 1/4 <b>SE</b>                            |  | Section<br><b>12</b>  |  | Township<br><b>01 N</b>  |  | License/Permit/Monitoring #<br><b>GP-2</b>                             |  |
| or Gov't Lot #<br>_____                                    |  | Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W  |  | Original Well Owner<br>_____   |  | Present Well Owner<br>_____  |  |
| Well Street Address<br><b>8004 22ND AVENUE</b>             |  |   |  | Mailing Address of Present Owner<br>_____  |  |  |  |
| Well City, Village or Town<br><b>CITY OF KENOSHA</b>       |  |   |  | Well ZIP Code<br><b>53143</b>  |  |  |  |
| Subdivision Name<br>_____                                  |  |   |  | Lot #<br>_____   |  | City of Present Owner      State      ZIP Code                         |  |

| 3. Filled & Sealed Well / Drillhole / Borehole Information   |  | 4. Pump, Liner, Screen, Casing & Sealing Material   |  |  |  |
|--|--|---|--|--|--|
| Reason for Removal from Service<br><b>EXPLORATORY PROBE</b>  |  | WI Unique Well # of Replacement Well<br>_____   |  |  |  |
| <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole  |  | Original Construction Date (mm/dd/yyyy)<br><b>07/03/2018</b>  |  |  |  |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): <b>DIRECT PUSH</b> |  | If a Well Construction Report is available, please attach.<br>_____   |  |  |  |
| Formation Type:<br><input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock   |  | Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A<br>Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A<br>If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br>If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |  |  |
| Total Well Depth From Ground Surface (ft.)<br><b>15</b>  |  | Required Method of Placing Sealing Material<br><input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped<br><input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>GRAVITY</b>   |  |  |  |
| Lower Drillhole Diameter (in.)<br><b>2.29</b>  |  | Sealing Materials<br><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete<br><input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips  |  |  |  |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown  |  | For Monitoring Wells and Monitoring Well Boreholes Only:<br><input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout<br><input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry  |  |  |  |
| If yes, to what depth (feet)?<br>_____   |  | Depth to Water (feet)<br>_____  |  |  |  |

| 5. Material Used to Fill Well / Drillhole |          |   |                         |
|---|----------|---|-------------------------|
| From (ft.)                                | To (ft.) | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
| <b>3/8" BENTONITE CHIPS</b>               | Surface  | <b>15</b>                                       | <b>0.429 #3</b>         |

**6. Comments**

\_\_\_\_\_

| 7. Supervision of Work   |                    |   |   | DNR Use Only                   |          |
|--|--------------------|---|---|--------------------------------|----------|
| Name of Person or Firm Doing Filling & Sealing<br><b>MORAINS ENVIRONMENTAL</b> |                    | License #<br>_____                        | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br><b>07/03/2018</b> | Date Received                  | Noted By |
| Street or Route<br><b>706 TOWER DRIVE</b>                                      |                    | Telephone Number<br><b>(262) 692-3345</b> |   | Comments                       |          |
| City<br><b>FREDONIA</b>  | State<br><b>WI</b> | ZIP Code<br><b>53021</b>                  | Signature of Person Doing Work<br><i>Colleen Hoff</i>                       | Date Signed<br><b>7/5/2018</b> |          |

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information** **2. Facility / Owner Information**

|   |                      |  |  |  |          |
|---|----------------------|--|--|--|----------|
| County<br><b>KENOSHA</b>                                      |                      | WI Unique Well # of Removed Well<br>_____                                  | Hicap #<br>_____   | Facility Name<br><b>US PETROLEUM, INC. (FORMER DRAKE'S AUTOMOTIVE)</b> |          |
| Latitude / Longitude (see instructions)<br>_____ N<br>_____ W |                      | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 | Facility ID (FID or PWS)<br><b>230041350</b>                           |          |
| 1/4 1/4 <b>NE</b> 1/4 <b>SE</b><br>or Gov't Lot #             | Section<br><b>12</b> | Township<br><b>01 N</b>  | Range <input checked="" type="checkbox"/> <b>E</b><br><input type="checkbox"/> <b>W</b>                              | License/Permit/Monitoring #<br><b>GP-3</b>                             |          |
| Well Street Address<br><b>8004 22ND AVENUE</b>                |                      | Well ZIP Code<br><b>53143</b>  |  | Original Well Owner  |          |
| Well City, Village or Town<br><b>CITY OF KENOSHA</b>          |                      | Lot #<br>_____   |  | Present Well Owner   |          |
| Subdivision Name  |                      | City of Present Owner  |  | State  | ZIP Code |

**3. Filled & Sealed Well / Drillhole / Borehole Information** **4. Pump, Liner, Screen, Casing & Sealing Material**

|  |  |   |   |  |  |
|--|--|---|---|--|--|
| Reason for Removal from Service<br><b>EXPLORATORY PROBE</b>  | WI Unique Well # of Replacement Well<br>_____              | Original Construction Date (mm/dd/yyyy)<br><b>07/03/2018</b>  |   | <input type="checkbox"/> Pump and piping removed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><input type="checkbox"/> Liner(s) removed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><input type="checkbox"/> Liner(s) perforated? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><input type="checkbox"/> Screen removed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><input type="checkbox"/> Casing left in place? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole  | If a Well Construction Report is available, please attach. |   | <input type="checkbox"/> Was casing cut off below surface? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><input checked="" type="checkbox"/> Did sealing material rise to surface? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A<br><input type="checkbox"/> Did material settle after 24 hours? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A<br>If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A<br><input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |  |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): <b>DIRECT PUSH</b> |  | Required Method of Placing Sealing Material<br><input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped<br><input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>GRAVITY</b> |   |  |  |
| Formation Type:<br><input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock   |  | Sealing Materials<br><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete<br><input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips  |   |  |  |
| Total Well Depth From Ground Surface (ft.)<br><b>15</b>  | Casing Diameter (in.)                                      | For Monitoring Wells and Monitoring Well Boreholes Only:<br><input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout<br><input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry                            |   |  |  |
| Lower Drillhole Diameter (in.)<br><b>2.29</b>  | Casing Depth (ft.)   | <input type="checkbox"/> Was well annular space grouted? Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>If yes, to what depth (feet)? _____ Depth to Water (feet) _____  |   |  |  |

| 5. Material Used to Fill Well / Drillhole | From (ft.) | To (ft.)  | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
|---|------------|-----------|---|-------------------------|
| <b>3/8" BENTONITE CHIPS</b>               | Surface    | <b>15</b> | <b>0.429 ft<sup>3</sup></b>                     |                         |

**6. Comments**

|  |   |   |  |                                |
|--|---|---|--|--------------------------------|
| <b>7. Supervision of Work</b>  |   |   | <b>DNR Use Only</b>  |                                |
| Name of Person or Firm Doing Filling & Sealing<br><b>MORAINS ENVIRONMENTAL</b> | License #                                 | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br><b>07/03/2018</b> | Date Received  | Noted By                       |
| Street or Route<br><b>766 TOWER DRIVE</b>                                      | Telephone Number<br><b>(262) 692-3345</b> | Comments  |  |                                |
| City<br><b>FREDONIA</b>  | State<br><b>WI</b>                        | ZIP Code<br><b>53021</b>  | Signature of Person Doing Work<br><i>Colleen [Signature]</i> | Date Signed<br><b>7/5/2018</b> |

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Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

| 1. Well Location Information                                  |  |  |  | 2. Facility / Owner Information  |  |  |  |
|---|--|--|--|--|--|--|--|
| County<br><b>KENOSHA</b>                                      |  | WI Unique Well # of Removed Well<br>_____                                  |  | Hicap #<br>_____   |  | Facility Name<br><b>US PETROLEUM, INC. (FORMER DRAKE'S AUTOMOTIVE)</b> |  |
| Latitude / Longitude (see instructions)<br>_____ N<br>_____ W |  | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM |  | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |  | Facility ID (FID or PWS)<br><b>230041350</b>                           |  |
| 1/4 1/4 <b>NE</b> 1/4 <b>SE</b>                               |  | Section<br><b>12</b>   |  | Township<br><b>01 N</b>  |  | License/Permit/Monitoring #<br><b>GP-4</b>                             |  |
| or Gov't Lot #  |  | Range<br><b>22</b>   |  | <input checked="" type="checkbox"/> E<br><input type="checkbox"/> W  |  | Original Well Owner  |  |
| Well Street Address<br><b>8004 22ND AVENUE</b>                |  |  |  | Present Well Owner   |  |  |  |
| Well City, Village or Town<br><b>CITY OF KENOSHA</b>          |  |  |  | Mailing Address of Present Owner   |  |  |  |
| Well ZIP Code<br><b>53143</b>                                 |  |  |  | City of Present Owner  |  |  |  |
| Subdivision Name  |  |  |  | State  |  | ZIP Code   |  |

| Reason for Removal from Service<br><b>EXPLORATORY PROBE</b>   |  | WI Unique Well # of Replacement Well<br>_____                           |  |
|---|--|---|--|
| 3. Filled & Sealed Well / Drillhole / Borehole Information  |  |   |  |
| <input type="checkbox"/> Monitoring Well  |  | Original Construction Date (mm/dd/yyyy)<br><b>07/03/2018</b>            |  |
| <input type="checkbox"/> Water Well   |  | If a Well Construction Report is available, please attach.              |  |
| <input checked="" type="checkbox"/> Borehole / Drillhole  |  |   |  |
| Construction Type:  |  |   |  |
| <input type="checkbox"/> Drilled  |  | <input type="checkbox"/> Driven (Sandpoint)                             |  |
| <input type="checkbox"/> Dug  |  | <input checked="" type="checkbox"/> Other (specify): <b>DIRECT PUSH</b> |  |
| Formation Type:   |  |   |  |
| <input checked="" type="checkbox"/> Unconsolidated Formation  |  | <input type="checkbox"/> Bedrock  |  |
| Total Well Depth From Ground Surface (ft.)<br><b>15</b>   |  | Casing Diameter (in.)   |  |
| Lower Drillhole Diameter (in.)<br><b>2.29</b>   |  | Casing Depth (ft.)  |  |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |  |   |  |
| If yes, to what depth (feet)?   |  | Depth to Water (feet)   |  |

| 4. Pump, Liner, Screen, Casing & Sealing Material                                     |   |   |   |
|---|---|---|---|
| Pump and piping removed?  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Liner(s) removed?   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Liner(s) perforated?  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Screen removed?   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Casing left in place?   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Was casing cut off below surface?   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Did sealing material rise to surface?   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No   | <input type="checkbox"/> N/A            |
| Did material settle after 24 hours?   | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No                              | <input type="checkbox"/> N/A            |
| If yes, was hole retopped?  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| If bentonite chips were used, were they hydrated with water from a known safe source? | <input type="checkbox"/> Yes            | <input type="checkbox"/> No   | <input checked="" type="checkbox"/> N/A |
| Required Method of Placing Sealing Material   |   |   |   |
| <input type="checkbox"/> Conductor Pipe-Gravity                                       |   | <input type="checkbox"/> Conductor Pipe-Pumped                      |   |
| <input type="checkbox"/> Screened & Poured (Bentonite Chips)                          |   | <input checked="" type="checkbox"/> Other (Explain): <b>GRAVITY</b> |   |
| Sealing Materials   |   |   |   |
| <input type="checkbox"/> Neat Cement Grout  |   | <input type="checkbox"/> Concrete                                   |   |
| <input type="checkbox"/> Sand-Cement (Concrete) Grout                                 |   | <input checked="" type="checkbox"/> Bentonite Chips                 |   |
| For Monitoring Wells and Monitoring Well Boreholes Only:                              |   |   |   |
| <input type="checkbox"/> Bentonite Chips  |   | <input type="checkbox"/> Bentonite - Cement Grout                   |   |
| <input type="checkbox"/> Granular Bentonite   |   | <input type="checkbox"/> Bentonite - Sand Slurry                    |   |

| 5. Material Used to Fill Well / Drillhole |          |   |                         |
|---|----------|---|-------------------------|
| From (ft.)                                | To (ft.) | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
| Surface                                   | 15       | <u>0.429</u> ft <sup>3</sup>                    |                         |
|   |          |   |                         |
|   |          |   |                         |

**6. Comments**

| 7. Supervision of Work  |                    |                          |   | DNR Use Only                   |          |
|---|--------------------|--------------------------|---|--------------------------------|----------|
| Name of Person or Firm Doing Filling & Sealing<br><b>MORAINES ENVIRONMENTAL</b> |                    | License #                | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br><b>07/03/2018</b> | Date Received                  | Noted By |
| Street or Route<br><b>716 TOWER DRIVE</b>                                       |                    |                          | Telephone Number<br><b>(262) 692-3345</b>                                   | Comments                       |          |
| City<br><b>FREDONIA</b>   | State<br><b>WI</b> | ZIP Code<br><b>53021</b> | Signature of Person Doing Work<br><i>Colleen Jeff</i>                       | Date Signed<br><b>7/5/2018</b> |          |

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Verification Only of Fill and Seal

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**

|   |                      |  |  |
|---|----------------------|--|--|
| County<br><b>KENOSHA</b>                                      |                      | WI Unique Well # of Removed Well<br>_____                                  | Hicap #<br>_____   |
| Latitude / Longitude (see instructions)<br>_____ N<br>_____ W |                      | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |
| 1/4 1/4 <b>NE</b> 1/4 <b>SE</b><br>or Gov't Lot #             | Section<br><b>12</b> | Township<br><b>01 N</b>  | Range <input checked="" type="checkbox"/> <b>E</b> 22 <input type="checkbox"/> <b>W</b>                              |
| Well Street Address<br><b>8004 22ND AVENUE</b>                |                      |  |  |
| Well City, Village or Town<br><b>CITY OF KENOSHA</b>          |                      | Well ZIP Code<br><b>53143</b>  |  |
| Subdivision Name<br>_____                                     |                      | Lot #<br>_____   |  |
| Reason for Removal from Service<br><b>EXPLORATORY PROBE</b>   |                      | WI Unique Well # of Replacement Well<br>_____                              |  |

**2. Facility / Owner Information**

|  |                |                   |
|--|----------------|-------------------|
| Facility Name<br><b>US PETROLEUM, INC. (FORMER DRAKE'S AUTOMOTIVE)</b> |                |                   |
| Facility ID (FID or PWS)<br><b>230041350</b>                           |                |                   |
| License/Permit/Monitoring #<br><b>GP-5</b>                             |                |                   |
| Original Well Owner<br>_____   |                |                   |
| Present Well Owner<br>_____  |                |                   |
| Mailing Address of Present Owner<br>_____                              |                |                   |
| City of Present Owner<br>_____   | State<br>_____ | ZIP Code<br>_____ |

**3. Filled & Sealed Well / Drillhole / Borehole Information**

|  |   |
|--|---|
| <input type="checkbox"/> Monitoring Well   | Original Construction Date (mm/dd/yyyy)<br><b>07/03/2018</b>        |
| <input type="checkbox"/> Water Well  |   |
| <input checked="" type="checkbox"/> Borehole / Drillhole   | If a Well Construction Report is available, please attach.<br>_____ |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): <b>DIRECT PUSH</b> |   |
| Formation Type:<br><input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock   |   |
| Total Well Depth From Ground Surface (ft.)<br><b>15</b>  | Casing Diameter (in.)<br>_____                                      |
| Lower Drillhole Diameter (in.)<br><b>2.29</b>  | Casing Depth (ft.)<br>_____   |
| Was well annular space grouted?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown   | Depth to Water (feet)<br>_____                                      |

**4. Pump, Liner, Screen, Casing & Sealing Material**

|   |  |
|---|--|
| Pump and piping removed?  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) removed?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) perforated?  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Screen removed?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Casing left in place?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Was casing cut off below surface?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Did sealing material rise to surface?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Did material settle after 24 hours?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| If yes, was hole retopped?  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| If bentonite chips were used, were they hydrated with water from a known safe source?   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Required Method of Placing Sealing Material<br><input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped<br><input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>GRAVITY</b> |  |
| Sealing Materials<br><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete<br><input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips  |  |
| For Monitoring Wells and Monitoring Well Boreholes Only:<br><input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout<br><input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry                            |  |

**5. Material Used to Fill Well / Drillhole**

| Material                    | From (ft.) | To (ft.)  | No. Yards Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
|-----------------------------|------------|-----------|--|-------------------------|
| <b>3/8" BENTONITE CHIPS</b> | Surface    | <b>15</b> | <b>0.429 ft<sup>3</sup></b>                    |                         |
|                             |            |           |  |                         |

**6. Comments**

**7. Supervision of Work**

|  |   |   |  |                                |
|--|---|---|--|--------------------------------|
| Name of Person or Firm Doing Filling & Sealing<br><b>MORAINÉ ENVIRONMENTAL</b> | License #<br>_____                        | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br><b>07/03/2018</b> | DNR Use Only<br>Date Received<br>Noted By                    |                                |
| Street or Route<br><b>766 TOWER DRIVE</b>                                      | Telephone Number<br><b>(262) 692-3345</b> | Comments  |  |                                |
| City<br><b>FREDONIA</b>  | State<br><b>WI</b>                        | ZIP Code<br><b>53021</b>  | Signature of Person Doing Work<br><i>Colleen [Signature]</i> | Date Signed<br><b>7/5/2018</b> |



## **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



**DISCLAIMER** This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, data and information located in various state, county and municipal offices and other sources affecting the area shown and is to be used for reference purposes only. Kenosha County is not responsible for any inaccuracies herein contained. If discrepancies are found, please contact Kenosha County.

**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

| Sample ID   | TSSA Samples |               | Sub-Surface Assessment Samples |         |        |         |        |         |        |         |        |         | Excavation Confirmation Samples |                              |                     |                     |                     |                    | Groundwater Pathway RCLs | Non-Industrial Direct Contact Pathway RCLs | Industrial Direct Contact Pathway RCLs |
|---|--------------|---------------|--------------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|---------------------------------|------------------------------|---------------------|---------------------|---------------------|--------------------|--------------------------|--|--|
|   | SS13         | SS14          | GP-1                           |         | GP-2   |         | GP-3   |         | GP-4   |         | GP-5   |         | 001<br>Dirty Landfill Sample    | 002<br>E Adjacent to Footing | 003<br>SW Base/Wall | 004<br>NW Base/Wall | 005<br>NE Base/Wall | 006<br>N Base/Wall |                          |  |  |
| 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                  | 6                        |  |  |
| 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            | 7/27/18                  |  |  |
| <b>Petroleum Volatile Organic Compounds (µg/kg)</b> |              |               |                                |         |        |         |        |         |        |         |        |         |                                 |                              |                     |                     |                     |                    |                          |  |  |
| 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                       | <b>219000</b>                              | <b><u>219000</u></b>                   |
| 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                       | <b>182000</b>                              | <b><u>182000</u></b>                   |
| 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                      | <b>1600</b>                                | <b><u>7070</u></b>                     |
| Ethylbenzene  | <25          | <b>3570</b>   | <25.0                          | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <b>2380</b>                     | <25.0                        | <25.0               | <25.0               | <25.0               | <25.0              | 1570                     | <b>8020</b>                                | <b><u>35400</u></b>                    |
| Methyl-tert-butyl ether                             | <25          | <i>501 J</i>  | <25.0                          | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <b>812</b>                      | <25.0                        | <25.0               | <25.0               | <25.0               | <25.0              | 27                       | <b>63800</b>                               | <b><u>282000</u></b>                   |
| Naphthalene   | <25          | <b>5890</b>   | <25.0                          | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <25.0  | <25.0   | <b>3040</b>                     | <25.0                        | <25.0               | 46.7 J              | <25.0               | <25.0              | 658.7                    | <b>5520</b>                                | <b><u>24100</u></b>                    |
| 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                   | <b>818000</b>                              | <b><u>818000</u></b>                   |
| 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          | <b>55,200</b> | <50                            | <50     | <50    | <50     | <50    | <50     | <50    | <50     | <50    | <50     | <b>57600</b>                    | <50                          | <50                 | 104                 | <50                 | <50                | 1378.7                   | NS   | NS                                     |
| Total Xylenes                                       | <25          | <b>11030</b>  | <75                            | <75     | <75    | <75     | <75    | <75     | <75    | <75     | <75    | <75     | 3567                            | <75                          | <75                 | <75                 | <75                 | <75                | 3940                     | <b>260000</b>                              | <b><u>260000</u></b>                   |

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

**Bold Underlined** - 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 Mleczo  
steve.mleczo@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## 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

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## REPORT OF LABORATORY ANALYSIS

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## 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 |

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### SAMPLE ANALYTE COUNT

Project: 6462 LOU PERRINE  
Pace Project No.: 40173283

| Lab ID      | Sample ID                     | Method        | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------------------|---------------|----------|-------------------|------------|
| 40173283001 | DIRTY LANDFILL SAMPLE         | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                               | ASTM D2974-87 | JXM      | 1                 | PASI-G     |
| 40173283002 | EAST ADJACENT TO FOOTING @ 6' | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                               | ASTM D2974-87 | JXM      | 1                 | PASI-G     |
| 40173283003 | SW BASE/WALL @ 6'             | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                               | ASTM D2974-87 | JXM      | 1                 | PASI-G     |
| 40173283004 | NW BASE/WALL @ 6'             | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                               | ASTM D2974-87 | JXM      | 1                 | PASI-G     |
| 40173283005 | NE BASE/WALL @ 6'             | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                               | ASTM D2974-87 | JXM      | 1                 | PASI-G     |
| 40173283006 | N BASE/WALL @ 6'              | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                               | ASTM D2974-87 | JXM      | 1                 | PASI-G     |

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## ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

**Sample: DIRTY LANDFILL SAMPLE Lab ID: 40173283001** 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 |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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     |      |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 121     | %     | 80-120 |      | 8  | 08/01/18 08:30 | 08/01/18 11:27 | 98-08-8     | S7   |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 18.2    | %     | 0.10   | 0.10 | 1  |                | 07/31/18 12:57 |             |      |

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### ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

**Sample:** EAST ADJACENT TO FOOTING @ 6'      **Lab ID:** 40173283002      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 116     | %     | 80-120 |      | 1  | 08/01/18 08:30 | 08/01/18 12:45 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 18.1    | %     | 0.10   | 0.10 | 1  |                | 07/31/18 12:57 |             |      |

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## ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

**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  |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|-------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |       |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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     |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |       |
| a,a,a-Trifluorotoluene (S)   | 96      | %     | 80-120 |      | 1  | 08/01/18 08:30 | 08/01/18 13:11 | 98-08-8     | 1q,P4 |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |       |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |       |
| Percent Moisture   | 16.1    | %     | 0.10   | 0.10 | 1  |                | 07/31/18 12:57 |             |       |

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### ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

**Sample: NW BASE/WALL @ 6'**      **Lab ID: 40173283004**      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 |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>  |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)   | 100     | %     | 80-120 |      | 1  | 08/01/18 08:30 | 08/01/18 13:37 | 98-08-8     |      |
| <b>Percent Moisture</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87                                       |         |       |        |      |    |                |                |             |      |
| Percent Moisture   | 11.9    | %     | 0.10   | 0.10 | 1  |                | 07/31/18 12:57 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

**Sample: NE BASE/WALL @ 6'**      **Lab ID: 40173283005**      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 110     | %     | 80-120 |      | 1  | 08/01/18 08:30 | 08/01/18 14:02 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 21.9    | %     | 0.10   | 0.10 | 1  |                | 07/31/18 12:58 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

**Sample: N BASE/WALL @ 6'**      **Lab ID: 40173283006**      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 |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b>  |         |       |        |      |    |                |                |             |      |
| Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC 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    |
| <b>Surrogates</b>   |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)  | 97      | %     | 80-120 |      | 1  | 08/01/18 08:30 | 08/01/18 14:28 | 98-08-8     |      |
| <b>Percent Moisture</b>   |         |       |        |      |    |                |                |             |      |
| Analytical Method: ASTM D2974-87  |         |       |        |      |    |                |                |             |      |
| Percent Moisture  | 17.7    | %     | 0.10   | 0.10 | 1  |                | 07/31/18 12:58 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

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

| Parameter                  | Units | Blank Result | Reporting 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 SAMPLE & LCSD: 1729793

1729794

| Parameter                  | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2,4-Trimethylbenzene     | ug/kg | 1000        | 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.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

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|                         |  |                       |                             |
|-------------------------|--|-----------------------|-----------------------------|
| 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 |                       |                             |

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SAMPLE DUPLICATE: 1729574

| Parameter        | Units | 40173277002<br>Result | Dup<br>Result | RPD | Max<br>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.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

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### 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

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.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6462 LOU PERRINE

Pace Project No.: 40173283

| 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   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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U0173283

(Please Print Clearly)

Company Name: Morraine Environmental

Branch/Location: Fredonia

Project Contact: Tan Sweet

Phone: 262-692-3385

Project Number: 6462

Project Name: hou Perrine

Project State: WI

Sampled By (Print): Tan Sweet

Sampled By (Sign): [Signature]

PO #: \_\_\_\_\_

Regulatory Program: \_\_\_\_\_



### CHAIN OF CUSTODY

**Preservation Codes**

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

**Quote #:**

**Mail To Contact:** Tan Sweet

**Mail To Company:** MORRAINE ENVIRON

**Mail To Address:** 266 Tower Drive  
Fredonia, WI 53021

**Invoice To Contact:**

**Invoice To Company:**

**Invoice To Address:**

**Invoice To Phone:**

**Data Package Options** (billable)

EPA Level III

EPA Level IV

**MS/MSD**

On your sample (billable)

NOT needed on your sample

**Matrix Codes**

A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SL = Sludge WP = Wipe

| DATE | TIME | MATRIX | Y/N | Pick Letter | Analysis Requested  |
|------|------|--------|-----|-------------|---------------------|
| 7/27 |      | S      | 2   | T           | P1000 + naphthalene |
| 7/27 |      |        | 2   | A           | Dig weight          |
| 7/27 |      |        |     |             |                     |
| 7/27 |      |        |     |             |                     |
| 7/27 |      |        |     |             |                     |
| 7/27 |      |        |     |             |                     |

PID

| PACE LAB # | CLIENT FIELD ID             | DATE | TIME | MATRIX |
|------------|-----------------------------|------|------|--------|
| 001        | Dirty Landfill Sample #6    | 7/27 |      | S      |
| 002        | EAST adjacent to Faulting   | 7/27 |      |        |
| 003        | SW Base/wall #6'            | 7/27 |      |        |
| 004        | NW Base/wall #6'            | 7/27 |      |        |
| 005        | WE <del>Base/wall</del> #6' | 7/27 |      |        |
| 006        | N. Base/wall #6'            | 7/27 |      |        |

3 days TCS

**Rush Turnaround Time Requested - Prelims**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: 8/2/2018

Transmit Prelim Rush Results by (complete what you want):

| Relinquished By:   | Date/Time:           | Received By:      | Date/Time:             |
|--------------------|----------------------|-------------------|------------------------|
| <u>[Signature]</u> | <u>7/30/18 11:00</u> | <u>Mary Jamin</u> | <u>7/30/18 9:10 AM</u> |
| <u>Mary Jamin</u>  | <u>7/30/18 12:45</u> |                   |                        |
| <u>[Signature]</u> | <u>7/31/18 0050</u>  | <u>Q R J Pace</u> | <u>7/31/18 0950</u>    |
|                    |                      |                   |                        |

PACE Project No. U0173283

Receipt Temp = RPT °C

Sample Receipt pH  
 OK / Adjusted

**Custody Seal**  
 Present / Not Present  
 Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

Page 16 of 18

Company Name: Moraine Environmental  
 Branch/Location: Fredonia  
 Project Contact: Tan Sweet  
 Phone: 262-692-3345  
 Project Number: 6462  
 Project Name: hou Perrine  
 Project State: WI  
 Sampled By (Print): Tan Sweet  
 Sampled By (Sign): [Signature]  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_



MN: 612-607-1700 WI: 920-469-2436

U0173283

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y/N | Pick Letter | Analyses Requested           | MATRIX | DATE | TIME | CONC |
|-----|-------------|------------------------------|--------|------|------|------|
| N   | F           | PDOCs + naphth<br>Diy weight | S      | 7/27 |      | 58.0 |
| N   | A           |                              |        | 7/27 |      | 0.0  |
|     |             |                              |        | 7/27 |      | 0.0  |
|     |             |                              |        | 7/27 |      | 0.0  |
|     |             |                              |        | 7/27 |      |      |
|     |             |                              |        | 7/27 |      |      |

Quote #: \_\_\_\_\_  
 Mail To Contact: Tan Sweet  
 Mail To Company: MORAIN ENV  
 Mail To Address: 266 Tower Drive  
Fredonia, WI 53021  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air B = Biota C = Charcoal O = Oil S = Soil SI = Sludge  
 W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe

| PACE LAB # | CLIENT FIELD ID                  | COLLECTION |      | MATRIX |
|------------|----------------------------------|------------|------|--------|
|            |                                  | DATE       | TIME |        |
| 001        | Dirty Landfill Sample #6'        | 7/27       |      | S      |
| 002        | East adjacent to Factory         | 7/27       |      |        |
| 003        | SW Base/wall #6'                 | 7/27       |      |        |
| 004        | NW Base/wall #6'                 | 7/27       |      |        |
| 005        | NE <del>Base</del> Base/wall #6' | 7/27       |      |        |
| 006        | N. Base/wall #6'                 | 7/27       |      |        |

3 day TCS

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed: 8/2/2018

Transmit Prelim Rush Results by (complete what you want):

|  |  |                                  |
|--|--|----------------------------------|
| Relinquished By: <u>[Signature]</u> Date/Time: <u>7/30/18 11:00</u>  | Received By: <u>Mary Janin</u> Date/Time: <u>7/30/18 9:10 AM</u> | PACE Project No. <u>U0173283</u> |
| Relinquished By: <u>Mary Janin</u> Date/Time: <u>7/30/18 12:45</u>   | Received By: _____ Date/Time: _____                              |                                  |
| Relinquished By: <u>CS Logistics</u> Date/Time: <u>7/31/18 00:50</u> | Received By: <u>[Signature]</u> Date/Time: <u>7/31/18 09:50</u>  |                                  |

Samples on HOLD are subject to special pricing and release of liability

Receipt Temp = ROT °C  
 Sample Receipt pH: OK / Adjusted  
 Chain Custody Seal: Present / Not Present  
Intact / Not Intact

Sample Preservation Receipt Form

Client Name: Moraine

Project # 40173283

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

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass |      |      |      |      |      | Plastic |      |      |      |      |      | Vials |      |      |      |      | Jars |      |      | General |      |      | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act. pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |      |      |    |  |              |
|------------|-------|------|------|------|------|------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|------|---------|------|------|--------------------|-------------|--------------------|-------------|------------|-------------------|-------------|------|------|----|--|--------------|
|            | AG1U  | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U    | BP1U | BP2N | BP2Z | BP3U | BP3C | BP3N  | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU    | WGFU | WPFU |                    |             |                    |             |            |                   |             | SP5T | ZPLC | GN |  |              |
| 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 |
| 008        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      | /    |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 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  N/A \*If yes look in headspace column

|             |                           |             |                            |             |                         |             |                               |
|-------------|---------------------------|-------------|----------------------------|-------------|-------------------------|-------------|-------------------------------|
| <b>AG1U</b> | 1 liter amber glass       | <b>BP1U</b> | 1 liter plastic unpres     | <b>DG9A</b> | 40 mL amber ascorbic    | <b>JGFU</b> | 4 oz amber jar unpres         |
| <b>AG1H</b> | 1 liter amber glass HCL   | <b>BP2N</b> | 500 mL plastic HNO3        | <b>DG9T</b> | 40 mL amber Na Thio     | <b>WGFU</b> | 4 oz clear jar unpres         |
| <b>AG4S</b> | 125 mL amber glass H2SO4  | <b>BP2Z</b> | 500 mL plastic NaOH, Znact | <b>VG9U</b> | 40 mL clear vial unpres | <b>WPFU</b> | 4 oz plastic jar unpres       |
| <b>AG4U</b> | 120 mL amber glass unpres | <b>BP3U</b> | 250 mL plastic unpres      | <b>VG9H</b> | 40 mL clear vial HCL    |             |                               |
| <b>AG5U</b> | 100 mL amber glass unpres | <b>BP3C</b> | 250 mL plastic NaOH        | <b>VG9M</b> | 40 mL clear vial MeOH   | <b>SP5T</b> | 120 mL plastic Na Thiosulfate |
| <b>AG2S</b> | 500 mL amber glass H2SO4  | <b>BP3N</b> | 250 mL plastic HNO3        | <b>VG9D</b> | 40 mL clear vial DI     | <b>ZPLC</b> | ziploc bag                    |
| <b>BG3U</b> | 250 mL clear glass unpres | <b>BP3S</b> | 250 mL plastic H2SO4       |             |                         | <b>GN:</b>  |                               |

**Sample Condition Upon Receipt Form (SCUR)**

Project #: \_\_\_\_\_

Client Name: MORGINE

**WO#: 40173283**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: \_\_\_\_\_

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

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

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - N/A Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: POE ICorr: \_\_\_\_\_

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
Date: 7/31/18  
Initials: \_\_\_\_\_

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C.

|  |  |   |
|--|--|---|
| Chain of Custody Present:                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out:                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 2. <u>no reg#, no collect times</u>   |
| Chain of Custody Relinquished:                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name & Signature on COC:                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time:                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.  |
| - VOA Samples frozen upon receipt                | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Date/Time:  |
| Short Hold Time Analysis (<72hr):                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.  |
| Rush Turn Around Time Requested:                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 7.  |
| Sufficient Volume:                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. <u>003 - Viol - no volume</u>  |
| For Analysis: <u>7/31/18</u>                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <u>MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</u> |
| Correct Containers Used:                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.  |
| -Pace Containers Used:                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |   |
| -Pace IR Containers Used:                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| Containers Intact:                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.   |
| Filtered volume received for Dissolved tests     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.   |
| Sample Labels match COC:                         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>003 - no depth</u>   |
| -Includes date/time/ID/Analysis Matrix: <u>S</u> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | <u>001 - 003 Vials - no depth</u>   |
| Trip Blank Present:                              | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.   |
| Trip Blank Custody Seals Present                 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| Pace Trip Blank Lot # (if purchased):            | _____  |   |

**Client Notification/ Resolution:** If checked, see attached form for additional comments   
Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: 7/31/18



Requested Facility: Pheasant Run RDF Profile Number: 129797WI
Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number:

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: AP50, LLC
2. Site Address: 8004 22nd Avenue (City, State, ZIP) Kenosha WI 53143
3. County: Kenosha
4. Contact Name: Tom Sweet
5. Email: moraine@execpc.com
6. Phone: (262) 692-3345 7. Fax: (262) 692-3348
8. Generator EPA ID: N/A
9. State ID: N/A

C. MATERIAL INFORMATION

1. Common Name: Unleaded Gasoline Contaminated Soil
Describe Process Generating Material: See Attached
Former unleaded gasoline tank, dispenser and line system.
2. Material Composition and Contaminants: See Attached
Table with 2 columns: Contaminant, Percentage
3. State Waste Codes: N/A
4. Color: Brown
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage: N/A
7. pH: 6.0 to 9.0
8. Strong Odor: No
9. Flash Point: <140°F, 140°-199°F, >=200°

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
Please identify applicable samples and/or lab reports:
Pace Labs Project 40171991 report dated July 16, 2018
2. Other information attached (such as MSDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Tom Sweet Date: 07/23/2018
Title: President
Company: Moraine Environmental

B. BILLING INFORMATION

SAME AS GENERATOR

1. Billing Name: Moraine Environmental, Inc.
2. Billing Address: 766 Tower Drive (City, State, ZIP) Fredonia WI 53021
3. Contact Name: Thomas Sweet
4. Email: moraine@execpc.com
5. Phone: (262) 692-3345 6. Fax: (262) 692-3348
7. WM Hauled? Yes No
8. P.O. Number: 6462
9. Payment Method: Credit Account Cash Credit Card

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes\* No
2. State Hazardous Waste? Yes No
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes\* No
4. Contains Underlying Hazardous Constituents? Yes\* No
5. From an industry regulated under Benzene NESHAP? Yes\* No
6. Facility remediation subject to 40 CFR 63 GGGGG? Yes\* No
7. CERCLA or State-mandated clean-up? Yes\* No
8. NRC or State-regulated radioactive or NORM waste? Yes\* No
\*If Yes, see Addendum (page 2) for additional questions and space.
9. Contains PCBs? -> If Yes, answer a, b and c. Yes No
a. Regulated by 40 CFR 761? Yes No
b. Remediation under 40 CFR 761.61 (a)? Yes No
c. Were PCB imported into the US? Yes No
10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
11. Contains Asbestos? Yes No
-> If Yes: Non-Friable Non-Friable - Regulated Friable

F. SHIPPING AND DOT INFORMATION

1. One-Time Event Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 15
Tons Yards Drums Gallons Other:
3. Container Type and Size: Bulk-Dump Truck
4. USDOT Proper Shipping Name: N/A

Certification Signature

Handwritten signature: Tom Sweet



# Non-Hazardous WAM Approval

Requested Management Facility: Pheasant Run RDF

Profile Number: BIO129797WI Waste Acceptance Expiration Date: 07/23/2019

Common Name: Unleaded Gasoline Contaminated Soil WM Regulatory Volume Limit: \_\_\_\_\_  NA

### APPROVAL DETAILS

Approval Decision:  Approved  Not Approved Profile Renewal:  Yes  No

Management Method: Bioremediation

Generator Name: AP50, LLC

Profile Expiration Date: 07/23/2019

Periodic Testing Due Date: \_\_\_\_\_  NA

Other Due Date: \_\_\_\_\_  NA (Specify) \_\_\_\_\_

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

#### Generator Conditions

- Shipment must be scheduled into the disposal facility at least 24 hours in advance. Contact information will be provided by your TSR.
- The waste profile number must appear on the shipping papers.

WM Authorization Name: Ben Dahlby Title: Waste Approval Manager

WM Authorization Signature: *Ben Dahlby* Date: 07/23/2018

Agency Authorization (if Required): \_\_\_\_\_ Date: \_\_\_\_\_

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