

**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	First	MI	Organization/ Business Name
Nardo	James	L	
Mailing Address			City
9431 Washington Circle			Chanhassen
			State
			MN
			ZIP Code
			55317
Phone # (include area code)	Fax # (include area code)	Email	
(952) 475-7040		jamesnardo@msn.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:

Rather, CCF Inc., a Minnesota corporation is the Owner of the Polk County Property. James Nardo is the president and sole shareholder of CCF Inc.

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

Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name
Guhl	John	E	SEH
Mailing Address			City
10 N Bridge Street			Chippewa Falls
			State
			WI
			ZIP Code
			54729
Phone # (include area code)	Fax # (include area code)	Email	
(715) 720-6225	(888) 908-8166	jguhl@sehinc.com	

#### Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name
Olson	Bruce	K	SEH
Mailing Address			City
10 N Bridge Street			Chippewa Falls
			State
			WI
			ZIP Code
			54729
Phone # (include area code)	Fax # (include area code)	Email	
(715) 720-6244	(888) 908-8166	bolson@sehinc.com	

#### Attorney (if applicable)

Contact Last Name	First	MI	Organization/ Business Name
Boeder	Bruce	A	Boeder Law
Mailing Address			City
1000 Twelve Oaks Center Drive			Wayzata
			State
			MN
			ZIP Code
			55391
Phone # (include area code)	Fax # (include area code)	Email	
(952) 475-7040		BBoeder@Boederlaw.com	

#### Property Owner (if different from requester)

Contact Last Name	First	MI	Organization/ Business Name
Mailing Address			City
			State
			ZIP Code
Phone # (include area code)	Fax # (include area code)	Email	

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

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### Section 2. Property Information

Property Name Clear Lake Circle C		FID No. (if known) 649031020	
BRRTS No. (if known) 03-49-274529		Parcel Identification Number	
Street Address 426 USH 63		City Clear Lake	State WI
		ZIP Code 54005	
County Polk	Municipality where the Property is located <input type="radio"/> City <input type="radio"/> Town <input checked="" type="radio"/> Village of	Property is composed of: <input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels	Property Size Acres 1

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

No  Yes

Date requested by: \_\_\_\_\_

Reason: \_\_\_\_\_

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

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

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

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

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

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

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

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

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- 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).

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

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

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.

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.

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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: 11/13/2018

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: \_\_\_\_\_

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

Yes - Date (if known): \_\_\_\_\_

No

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

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Clarification or Post-Closure Modification Request

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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: James L Nardo

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.

John E. Hall  
Signature

10-23-2018  
Date Signed

Geologist  
Title

715.720.6225  
Telephone Number (include area code)

# 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

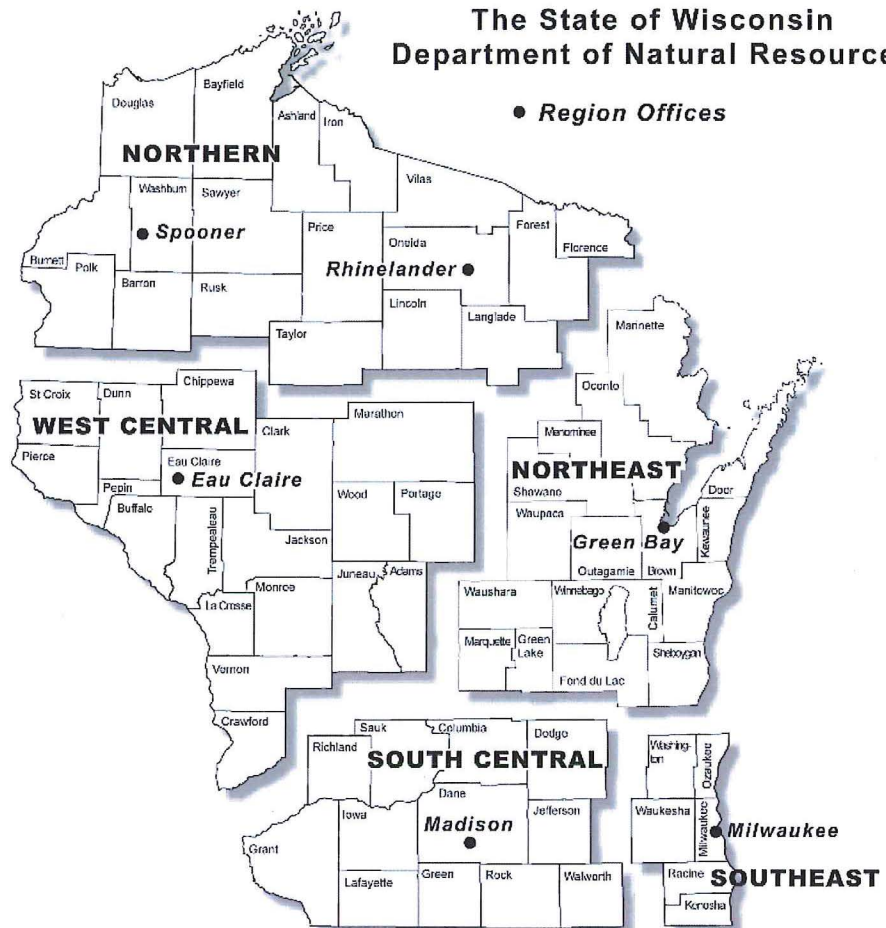
Attn: RR Program Assistant  
Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg WI 53711

### 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



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

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



November 13, 2018

RE: Limited Subsurface Investigation Report –  
Former Clear Lake Circle C Property  
426 Hwy 63  
Clear Lake, Wisconsin  
SEH No. NARDJ 146824 14.00

Mr. James L. Nardo  
9431 Washington Circle  
Chanhassen, MN 55317

Dear Mr. Nardo:

In accordance with our May 30, 2018 Agreement for Professional Services, Short Elliott Hendrickson, Inc. (SEH<sup>®</sup>) has completed a limited subsurface investigation of a property located at 426 Highway 63 in the Village of Clear Lake, Polk County, Wisconsin (subject property). This report documents the activities and results of the limited subsurface investigation and provides recommendations regarding existing notices of contamination recorded for the subject property.

### **Background**

The subject property is located on the south side of Highway 63 in the Village of Clear Lake, Wisconsin as depicted on attached Figure 1, "Site Location." The property is currently occupied by a vacant one story building that was formerly used as a Circle C gasoline station and convenience store. The service station was taken out of operation in 2004, and the associated gasoline underground storage tank system was subsequently removed in 2015. Two notices of contamination (2002 and 2004) were filed for the subject property by the Wisconsin Department of Natural Resources (WDNR). The site is currently listed as a closed leaking underground storage tank site on the WDNR BRRTS database, however, the existing notices of contamination remain in place. The property owner is currently pursuing options to have the notices of contamination removed from the site.

In communications with the WDNR project manager, petroleum impacted soil identified at historic soil boring GP-2 from 12 to 15 feet below ground surface has not been investigated further or remediated. The approximate location of the historic GP-2 boring is depicted on Figure 2, "Site Features." The WDNR cannot modify the requirements of the previous deed notices unless additional soil clean up and/or more sampling is performed at the subject property to document soil impacts are now at acceptable concentrations. WDNR suggested performance of three soil borings in the proximity of boring GP-2 and analysis of soil samples from the 12 to 15 foot sample interval for concentrations of petroleum volatile organic compounds (PVOCs) plus naphthalene in order to assess the current state of historic soil contamination at the site.

In order to attempt to address the remaining requirements to remove deed restrictions from the subject property, SEH was contracted to conduct a limited subsurface investigation at the subject property in the vicinity of historic soil boring GP-2. The purpose of the limited site investigation was



to identify current soil conditions in the 12 to 15 foot depth interval in the vicinity of historic boring GP-2. The SEH investigation results are presented in the following sections.

### **Site Investigation**

On June 27, 2018, SEH conducted limited subsurface field investigation activities at the property. The subsurface activities included performance of three soil borings (HP-1, HP-2, and HP-3) in a triangular configuration around GP-2. The approximate locations of the three soil borings are depicted on Figure 2.

The soil borings were performed by Geiss, Inc. (subcontractor to SEH) using a hydraulic probe drill rig. The soil samples were collected using a Macrocore® sampler and sample-dedicated acetate liners. The field activities were conducted under the observation of an SEH geologist, who collected soil samples and recorded lithologic conditions and subsurface observations on soil boring logs. Soil samples were collected continuously from ground surface to a depth of 16 feet at each boring location. Representative portions of each soil sample were placed in zipper-locking plastic bags for field screening for relative concentrations of volatile organic compounds (VOCs) using a photoionization detector (PID). The PID readings are recorded on the soil boring logs (attached). Five soil samples were also collected for laboratory analysis from the 12 to 16 foot interval at each boring location (the sample from boring HP-1, 12 to 16 feet could not be divided into two samples due to limited recovery, so the entire 12 to 16 foot sample was submitted as one sample). Upon completion of soil drilling and sampling, each borehole was abandoned in accordance with NR 141 requirements. Borehole abandonment forms were completed for each boring (attached).

The soil samples selected for laboratory analysis were placed in laboratory-clean analytical bottles, preserved as necessary, labelled, and chilled to 4 degrees C. The samples were shipped to TestAmerica in University Park, Illinois via overnight courier using standard chain of custody documentation for analysis of PVOCs plus naphthalene.

### **Site Investigation Results**

The field observations (odors and PID readings) indicated some petroleum impacts likely remain at the HP-1 location from 12 to 16 feet below ground surface. This boring was performed just south of the historic GP-2 boring location, with the historic fill of the former UST bed extending to 12 feet below ground surface at the HP-1 location. Minimal field indications of VOC impacts were noted in the fill soils (0-12 ft) at boring HP-1, and in all soils sampled from borings HP-2 and HP-3.

Laboratory analytical results indicate PVOC and naphthalene impacts were present in the soil sample analyzed from HP-1. 1,2,4-trimethylbenzene was detected at low concentrations in soil samples collected from HP-2. No PVOCs or naphthalene were detected in the soil samples analyzed from HP-3.

The laboratory detections were compared to the groundwater pathway residual contaminant levels (RCL) as identified in the WDNR NR 720 Soil RCL Worksheet. Direct contact RCL exceedances were not assessed due to the depth (>4 ft) of the impacted soils. Groundwater pathway RCL exceedances identified at the site included the following:

HP-1, 12-16 ft

- Benzene = 19 mg/kg (groundwater pathway RCL = 0.0051 mg/kg)
- Ethylbenzene = 67 mg/kg (groundwater pathway RCL = 1.57 mg/kg)
- Methyl Tert-Butyl Ether = 8.6 mg/kg (groundwater pathway RCL = 0.027 mg/kg)
- Naphthalene = 130 mg/kg (groundwater pathway RCL = 0.66 mg/kg)
- Toluene = 24 mg/kg (groundwater pathway RCL = 1.11 mg/kg)
- 1,2,4 and 1,3,5-TMB = 470 mg/kg (groundwater pathway RCL = 1.38 mg/kg combined)
- Xylenes = 570 mg/kg (groundwater pathway RCL = 3.96 mg/kg)

No groundwater pathway RCLs were exceeded in the soil samples from borings HP-2 or HP-3. The complete analytical package provided by TestAmerica is attached.

**Results Interpretation and Site Recommendations**

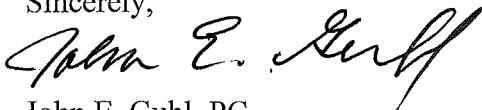
Based on PID readings, site observations, and analytical results, it appears a limited volume of petroleum-impacted soil is present in the proximity of HP-1 from 12 to 16 feet, with several groundwater pathway RCL exceedances present within this interval. No soil impacts above State standards were identified in the soil borings performed just northeast and northwest of the historic boring GP-2.

After discussion of results with Mr. Chris Saari of WDNR, it was suggested that the Limited Subsurface Investigation report and a Post Modification Request form with the associated fee could be submitted to WDNR for consideration of modification of the requirements of the previous deed notices. Based on your verbal authorization, SEH is submitting a copy of the Limited Subsurface Investigation Report and completed Post Modification Request form to WDNR on your behalf.

**Closure**

If you have any questions about the results of the investigation or regarding the recommendations for the property, feel free to contact me at 715.720.6225 or Bruce Olson at 715.720.6244.

Sincerely,



John E. Guhl, PG  
Senior Environmental Scientist

JEG/jeg/

C: Chris Saari, Wisconsin Department of Natural Resources

Attachments:

TestAmerica Laboratory Analytical Package,

Figure 1, Site Location

Figure 2, Site Features

Mr. James Nardo  
November 13, 2018  
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Soil Boring Logs (WDNR Form 4400-122)  
Borehole Abandonment Forms (WDNR Form 3300-005)

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-147665-1

Client Project/Site: Former Circle C

For:

Short Elliott Hendrickson, Inc. dba SEH  
10 North Bridge Street  
Chippewa Falls, Wisconsin 54729-3374

Attn: Mr. John Guhl



Authorized for release by:  
7/11/2018 3:13:56 PM

Sandie Fredrick, Project Manager II  
(920)261-1660

[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

 **Ask  
The  
Expert**

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

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**Job ID: 500-147665-1**

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**Laboratory: TestAmerica Chicago**

**Narrative**

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**Job Narrative**  
**500-147665-1**

### Comments

No additional comments.

### Receipt

The samples were received on 6/28/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

### Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

### GC VOA

Method(s) WI-GRO: Surrogate recovery for the following sample was outside control limits: HP-1 12-16 (500-147665-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

Method(s) WI GRO: added methanol to provide 1:1 ratio. HP-1 12-16 (500-147665-1), HP-2 12-14 (500-147665-2), HP-2 14-16 (500-147665-3), HP-3 12-14 (500-147665-4) and HP-3 14-16 (500-147665-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

### Client Sample ID: HP-1 12-16

### Lab Sample ID: 500-147665-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	19000		600	430	ug/Kg	20		✳	WDNR	Total/NA
Ethylbenzene	67000		600	450	ug/Kg	20		✳	WDNR	Total/NA
Methyl tert-butyl ether	8600		600	290	ug/Kg	20		✳	WDNR	Total/NA
Naphthalene	130000		6000	2900	ug/Kg	20		✳	WDNR	Total/NA
Toluene	24000		600	410	ug/Kg	20		✳	WDNR	Total/NA
1,2,4-Trimethylbenzene	370000		1200	720	ug/Kg	40		✳	WDNR	Total/NA
1,3,5-Trimethylbenzene	100000		600	360	ug/Kg	20		✳	WDNR	Total/NA
Xylenes, Total	570000		1800	720	ug/Kg	20		✳	WDNR	Total/NA

### Client Sample ID: HP-2 12-14

### Lab Sample ID: 500-147665-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	28	J	29	17	ug/Kg	1		✳	WDNR	Total/NA

### Client Sample ID: HP-2 14-16

### Lab Sample ID: 500-147665-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	18	J	28	17	ug/Kg	1		✳	WDNR	Total/NA

### Client Sample ID: HP-3 12-14

### Lab Sample ID: 500-147665-4

No Detections.

### Client Sample ID: HP-3 14-16

### Lab Sample ID: 500-147665-5

No Detections.

### Client Sample ID: Trip Blank

### Lab Sample ID: 500-147665-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

## Method Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
Moisture	Percent Moisture	EPA	TAL CHI
WI GRO	Closed System Purge and Trap	WI-GRO	TAL NSH

### Protocol References:

EPA = US Environmental Protection Agency

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

### Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





# Sample Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-147665-1	HP-1 12-16	Soil	06/27/18 10:40	06/28/18 09:15
500-147665-2	HP-2 12-14	Soil	06/27/18 11:10	06/28/18 09:15
500-147665-3	HP-2 14-16	Soil	06/27/18 11:15	06/28/18 09:15
500-147665-4	HP-3 12-14	Soil	06/27/18 11:30	06/28/18 09:15
500-147665-5	HP-3 14-16	Soil	06/27/18 11:40	06/28/18 09:15
500-147665-6	Trip Blank	Soil	06/27/18 00:00	06/28/18 09:15



# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-1 12-16**

**Lab Sample ID: 500-147665-1**

**Date Collected: 06/27/18 10:40**

**Matrix: Soil**

**Date Received: 06/28/18 09:15**

**Percent Solids: 86.0**

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	19000		600	430	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
Ethylbenzene	67000		600	450	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
Methyl tert-butyl ether	8600		600	290	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
Naphthalene	130000		6000	2900	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
Toluene	24000		600	410	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
1,2,4-Trimethylbenzene	370000		1200	720	ug/Kg	*	07/10/18 17:48	07/11/18 12:06	40
1,3,5-Trimethylbenzene	100000		600	360	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
Xylenes, Total	570000		1800	720	ug/Kg	*	07/10/18 17:48	07/11/18 10:35	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	160	X	80 - 120				07/10/18 17:48	07/11/18 10:35	20
a,a,a-Trifluorotoluene	82		80 - 120				07/10/18 17:48	07/11/18 12:06	40



## Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-2 12-14**

**Lab Sample ID: 500-147665-2**

**Date Collected: 06/27/18 11:10**

**Matrix: Soil**

**Date Received: 06/28/18 09:15**

**Percent Solids: 85.0**

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
Ethylbenzene	<22		29	22	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
Naphthalene	<140		290	140	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
Toluene	<19		29	19	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
<b>1,2,4-Trimethylbenzene</b>	<b>28</b>	<b>J</b>	29	17	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
Xylenes, Total	<34		86	34	ug/Kg	*	07/10/18 17:48	07/11/18 02:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene</i>	90		80 - 120				07/10/18 17:48	07/11/18 02:30	1

## Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-2 14-16**

**Lab Sample ID: 500-147665-3**

Date Collected: 06/27/18 11:15

Matrix: Soil

Date Received: 06/28/18 09:15

Percent Solids: 87.7

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
Ethylbenzene	<21		28	21	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
Naphthalene	<130		280	130	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
Toluene	<19		28	19	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
<b>1,2,4-Trimethylbenzene</b>	<b>18</b>	<b>J</b>	28	17	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
Xylenes, Total	<33		83	33	ug/Kg	*	07/10/18 17:48	07/11/18 03:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene</i>	91		80 - 120				07/10/18 17:48	07/11/18 03:01	1

## Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-3 12-14**

**Lab Sample ID: 500-147665-4**

**Date Collected: 06/27/18 11:30**

**Matrix: Soil**

**Date Received: 06/28/18 09:15**

**Percent Solids: 86.3**

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
Ethylbenzene	<23		30	23	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
Naphthalene	<140		300	140	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
Toluene	<20		30	20	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
Xylenes, Total	<36		90	36	ug/Kg	*	07/10/18 17:48	07/11/18 03:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene</i>	92		80 - 120				07/10/18 17:48	07/11/18 03:31	1

## Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-3 14-16**

**Lab Sample ID: 500-147665-5**

**Date Collected: 06/27/18 11:40**

**Matrix: Soil**

**Date Received: 06/28/18 09:15**

**Percent Solids: 89.1**

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
Ethylbenzene	<22		28	22	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
Naphthalene	<140		280	140	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
Toluene	<19		28	19	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
Xylenes, Total	<34		85	34	ug/Kg	*	07/10/18 17:48	07/11/18 04:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene</i>	94		80 - 120				07/10/18 17:48	07/11/18 04:02	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-147665-6**

**Date Collected: 06/27/18 00:00**

**Matrix: Soil**

**Date Received: 06/28/18 09:15**

**Percent Solids: 100.0**

**Method: WDNR - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
Ethylbenzene	<19		25	19	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
Naphthalene	<120		250	120	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
Toluene	<17		25	17	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
Xylenes, Total	<30		75	30	ug/Kg	✱	07/10/18 17:48	07/11/18 01:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene</i>	92		80 - 120				07/10/18 17:48	07/11/18 01:59	1

# Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



## QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

### GC VOA

#### Prep Batch: 527974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147665-1	HP-1 12-16	Total/NA	Soil	WI GRO	
500-147665-2	HP-2 12-14	Total/NA	Soil	WI GRO	
500-147665-3	HP-2 14-16	Total/NA	Soil	WI GRO	
500-147665-4	HP-3 12-14	Total/NA	Soil	WI GRO	
500-147665-5	HP-3 14-16	Total/NA	Soil	WI GRO	
500-147665-6	Trip Blank	Total/NA	Soil	WI GRO	
MB 490-527974/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-527974/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-527974/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

#### Analysis Batch: 527997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147665-1	HP-1 12-16	Total/NA	Soil	WDNR	527974
500-147665-1	HP-1 12-16	Total/NA	Soil	WDNR	527974
500-147665-2	HP-2 12-14	Total/NA	Soil	WDNR	527974
500-147665-3	HP-2 14-16	Total/NA	Soil	WDNR	527974
500-147665-4	HP-3 12-14	Total/NA	Soil	WDNR	527974
500-147665-5	HP-3 14-16	Total/NA	Soil	WDNR	527974
500-147665-6	Trip Blank	Total/NA	Soil	WDNR	527974
MB 490-527974/1-A	Method Blank	Total/NA	Solid	WDNR	527974
LCS 490-527974/2-A	Lab Control Sample	Total/NA	Solid	WDNR	527974
LCSD 490-527974/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	527974
LCSD 490-527974/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	527974

### General Chemistry

#### Analysis Batch: 439029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-147665-1	HP-1 12-16	Total/NA	Soil	Moisture	
500-147665-2	HP-2 12-14	Total/NA	Soil	Moisture	
500-147665-3	HP-2 14-16	Total/NA	Soil	Moisture	
500-147665-4	HP-3 12-14	Total/NA	Soil	Moisture	
500-147665-5	HP-3 14-16	Total/NA	Soil	Moisture	
500-147665-6	Trip Blank	Total/NA	Soil	Moisture	
500-147665-2 DU	HP-2 12-14	Total/NA	Soil	Moisture	

# Surrogate Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Soil

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT (80-120)
500-147665-1	HP-1 12-16	160 X
500-147665-1	HP-1 12-16	82
500-147665-2	HP-2 12-14	90
500-147665-3	HP-2 14-16	91
500-147665-4	HP-3 12-14	92
500-147665-5	HP-3 14-16	94
500-147665-6	Trip Blank	92

#### Surrogate Legend

TFT = a,a,a-Trifluorotoluene

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TFT (80-120)
LCS 490-527974/2-A	Lab Control Sample	95
LCSD 490-527974/3-A	Lab Control Sample Dup	95
LCSD 490-527974/3-A	Lab Control Sample Dup	89
MB 490-527974/1-A	Method Blank	91

#### Surrogate Legend

TFT = a,a,a-Trifluorotoluene

## QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

### Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

**Lab Sample ID: MB 490-527974/1-A**  
**Matrix: Solid**  
**Analysis Batch: 527997**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 527974**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<18		25	18	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
Ethylbenzene	<19		25	19	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
Naphthalene	<120		250	120	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
Toluene	<17		25	17	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
Xylenes, Total	<30		75	30	ug/Kg		07/10/18 17:48	07/11/18 01:29	1
<b>Surrogate</b>	<b>MB MB</b>		<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	97		80 - 120				07/10/18 17:48	07/11/18 01:29	1

**Lab Sample ID: LCS 490-527974/2-A**  
**Matrix: Solid**  
**Analysis Batch: 527997**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 527974**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene	2500	2300		ug/Kg		92	76 - 120
Ethylbenzene	2500	2420		ug/Kg		97	77 - 120
Methyl tert-butyl ether	2500	2350		ug/Kg		94	73 - 120
Naphthalene	2500	2350		ug/Kg		94	74 - 127
Toluene	2500	2360		ug/Kg		95	79 - 120
1,2,4-Trimethylbenzene	2500	2390		ug/Kg		95	60 - 140
1,3,5-Trimethylbenzene	2500	2380		ug/Kg		95	74 - 133
<b>Surrogate</b>		<b>LCS LCS</b>	<b>Limits</b>				
a,a,a-Trifluorotoluene		95	80 - 120				

**Lab Sample ID: LCSD 490-527974/3-A**  
**Matrix: Solid**  
**Analysis Batch: 527997**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 527974**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	2500	2400		ug/Kg		96	76 - 120	4	27
Ethylbenzene	2500	2550		ug/Kg		102	77 - 120	5	49
Methyl tert-butyl ether	2500	2410		ug/Kg		97	73 - 120	2	31
Naphthalene	2500	2650		ug/Kg		106	74 - 127	12	50
Toluene	2500	2500		ug/Kg		100	79 - 120	6	37
1,2,4-Trimethylbenzene	2500	2570		ug/Kg		103	60 - 140	8	50
1,3,5-Trimethylbenzene	2500	2570		ug/Kg		103	74 - 133	8	42
<b>Surrogate</b>		<b>LCSD LCSD</b>	<b>Limits</b>						
a,a,a-Trifluorotoluene		95	80 - 120						

TestAmerica Chicago

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

## Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCSD 490-527974/3-A**  
**Matrix: Solid**  
**Analysis Batch: 527997**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 527974**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
Benzene	2500	2110		ug/Kg		84	76 - 120	9	27	
Ethylbenzene	2500	2240		ug/Kg		90	77 - 120	8	49	
Methyl tert-butyl ether	2500	2080		ug/Kg		83	73 - 120	12	31	
Naphthalene	2500	2160		ug/Kg		86	74 - 127	9	50	
Toluene	2500	2180		ug/Kg		87	79 - 120	8	37	
1,2,4-Trimethylbenzene	2500	2250		ug/Kg		90	60 - 140	6	50	
1,3,5-Trimethylbenzene	2500	2250		ug/Kg		90	74 - 133	6	42	
<b>Surrogate</b>										
		<b>LCSD</b>	<b>LCSD</b>							
<i>a,a,a-Trifluorotoluene</i>		<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>	
		89							80 - 120	



# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-1 12-16**

**Date Collected: 06/27/18 10:40**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-1**

**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	439029	06/28/18 12:16	LWN	TAL CHI

**Client Sample ID: HP-1 12-16**

**Date Collected: 06/27/18 10:40**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-1**

**Matrix: Soil**

**Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		20	527997	07/11/18 10:35	FKG	TAL NSH
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		40	527997	07/11/18 12:06	FKG	TAL NSH

**Client Sample ID: HP-2 12-14**

**Date Collected: 06/27/18 11:10**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-2**

**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	439029	06/28/18 12:16	LWN	TAL CHI

**Client Sample ID: HP-2 12-14**

**Date Collected: 06/27/18 11:10**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-2**

**Matrix: Soil**

**Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		1	527997	07/11/18 02:30	FKG	TAL NSH

**Client Sample ID: HP-2 14-16**

**Date Collected: 06/27/18 11:15**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-3**

**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	439029	06/28/18 12:16	LWN	TAL CHI

**Client Sample ID: HP-2 14-16**

**Date Collected: 06/27/18 11:15**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-3**

**Matrix: Soil**

**Percent Solids: 87.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		1	527997	07/11/18 03:01	FKG	TAL NSH

TestAmerica Chicago

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

**Client Sample ID: HP-3 12-14**

**Date Collected: 06/27/18 11:30**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-4**

**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	439029	06/28/18 12:16	LWN	TAL CHI

**Client Sample ID: HP-3 12-14**

**Date Collected: 06/27/18 11:30**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-4**

**Matrix: Soil**

**Percent Solids: 86.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		1	527997	07/11/18 03:31	FKG	TAL NSH

**Client Sample ID: HP-3 14-16**

**Date Collected: 06/27/18 11:40**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-5**

**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	439029	06/28/18 12:16	LWN	TAL CHI

**Client Sample ID: HP-3 14-16**

**Date Collected: 06/27/18 11:40**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-5**

**Matrix: Soil**

**Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		1	527997	07/11/18 04:02	FKG	TAL NSH

**Client Sample ID: Trip Blank**

**Date Collected: 06/27/18 00:00**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-6**

**Matrix: Soil**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	439029	06/28/18 13:03	LWN	TAL CHI

**Client Sample ID: Trip Blank**

**Date Collected: 06/27/18 00:00**

**Date Received: 06/28/18 09:15**

**Lab Sample ID: 500-147665-6**

**Matrix: Soil**

**Percent Solids: 100.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			527974	07/10/18 17:48	DHC	TAL NSH
Total/NA	Analysis	WDNR		1	527997	07/11/18 01:59	FKG	TAL NSH

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Chicago

## Accreditation/Certification Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Circle C

TestAmerica Job ID: 500-147665-1

### Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-19
Georgia	State Program	4	N/A	04-30-19
Georgia	State Program	4	939	04-30-19
Hawaii	State Program	9	N/A	04-30-19
Illinois	NELAP	5	100201	04-30-19
Indiana	State Program	5	C-IL-02	04-30-19
Iowa	State Program	7	82	05-01-20
Kansas	NELAP	7	E-10161	10-31-18
Kentucky (UST)	State Program	4	66	04-30-19
Kentucky (WW)	State Program	4	KY90023	12-31-18
Louisiana	NELAP	6	30720	06-30-19
Mississippi	State Program	4	N/A	04-30-19
New York	NELAP	2	12019	04-01-19
North Carolina (WW/SW)	State Program	4	291	12-31-18
North Dakota	State Program	8	R-194	04-30-19
Oklahoma	State Program	6	8908	08-31-18 *
South Carolina	State Program	4	77001	04-30-18 *
USDA	Federal		P330-18-00018	02-11-21
Wisconsin	State Program	5	999580010	08-31-18 *
Wyoming	State Program	8	8TMS-Q	04-30-19

### Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

Report To Contact: <u>John Groll</u>	(optional)	Bill To Contact: <u>Bruce Olson</u>	(optional)
Company: <u>SEH</u>		Company:	
Address: <u>10 N. Bridge St</u>		Address:	
Address: <u>Chip Falls, WI 54729</u>		Address:	
Phone: <u>715.720.6200</u>		Phone:	
Fax:		Fax:	
E-Mail: <u>jgroll@sehic.com</u>		E-Mail: <u>bruce@sehic.com</u>	

## Chain of Custody Record

Lab Job #: 500-147665

Chain of Custody Number: \_\_\_\_\_

Page 1 of 1

Temperature °C of Cooler: 5.1

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Lab Project #		Date		Time		# of Containers			
Project Location/State		Lab PM		Date		Time		Matrix			
Sampler		Lab PM		Date		Time		# of Containers			
SEH Inc				MeOH						PDOC + Nitrophthalate	
Former Circle C											
Clear Lake, WI											
John E. Groll											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					Comments
1		HP-1	12-16	6-27-18	10:40	2	S				
2		HP-2	12-14		11:10	2	S				
3		HP-2	14-16		11:15	2	S				
4		HP-3	12-14		11:30	2	S				
5		HP-3	14-16		11:40	2	S				

Turnaround Time Required (Business Days) Routine Turnaround Time

1 Day
  2 Days
  5 Days
  7 Days
  10 Days
  15 Days
  Other

Requested Due Date \_\_\_\_\_

Return to Client
  Disposal by Lab
  Archive for \_\_\_\_\_ Months


(A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>John E. Groll</u>	Company <u>SEH</u>	Date <u>6-27-18</u>	Time <u>1:30 pm</u>	Received By <u>[Signature]</u>	Company <u>TA</u>	Date <u>06/28/18</u>	Time <u>0915</u>	Lab Courier
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Shipped <input checked="" type="checkbox"/>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Hand Delivered

Matrix Key

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments  
Chain of Custody Seal # 093587 and # 093588



500-147665 COC

14



2641

ORIGIN ID:RRLA (262) 202-5955  
JOHN GUHL  
SHORT ELLIOT HENDRICKSON  
10 NORTH BRIDGE ST

SHIP DATE: 14JUN18  
ACTWT: 25.00 LB MAN  
CAD: 525155/CAFE3210

CHIPPEWA FALLS, WI 547293374  
UNITED STATES US

TO:

TESTAMERICA CHICAGO  
2417 BOND STREET

UNIVERSITY PARK IL 60484-3101

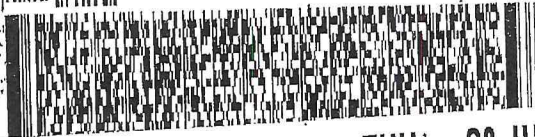
(708) 534-5200

REF:

INVT

DEPT:

IRMA: III IIII III



500-147685 Waybill

FedEx

THU - 28 JUN 10:30A  
PRIORITY OVERNIGHT

TRK# 7125 4938 2017  
0221

NA JOTA

60484  
IL-US ORD



W208109 06/27 552J2/93DF/DCA5

36qt.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

**COOLER RECEIPT FORM**



500-147665 Chain of Custody

Cooler Received/Opened On 6/29/2018 @ 0930

Time Samples Removed From Cooler 1420 Time Samples Placed In Storage 1508 (2 Hour Window)

1. Tracking # 8070 (last 4 digits, FedEx) Courier: FedEx  
 IR Gun ID 160406069 pH Strip Lot NA Chlorine Strip Lot NA  
 2. Temperature of rep. sample or temp blank when opened: 11 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA  
 4. Were custody seals on outside of cooler? YES NO...NA  
 If yes, how many and where: 1 (Front)

5. Were the seals intact, signed, and dated correctly? YES NO...NA  
 6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) JJ

7. Were custody seals on containers: YES NO and Intact YES...NO...NA  
 Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: ice Ice-pack Ice (direct contact) Dry Ice Other None

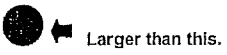
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) JJ

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JJ

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JJ

I certify that I attached a label with the unique LIMS number to each container (initial) JJ

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# \_\_\_\_\_

BIS = Broken in shipment  
 Cooler Receipt Form.doc

14

**TestAmerica Chicago**  
 2417 Bond Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

**Chain of Custody Record**

Loc: 500  
**147665** | Loc: 500  
**147665**



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab FM: Fredrick, Sandie J		OC No: J00-106733.1	
Client Contact: Shipping/Receiving		Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin			Job #: 500-147665-1	
Address: 2960 Foster Creighton Drive, City: Nashville State, Zip: TN, 37204		Due Date Requested: 7/9/2018	<b>Analysis Requested</b>		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Phone: 615-726-0177(Tel) 615-726-3404(Fax)		TAT Requested (days):				
Email:		PO #:				
Project Name: General Soils/Waters		Project #: 50006628	Field Filtered Samples (Yes or No)		Other:	
Site:		SSOW#:	WL_GROUNDRG_P_FM_PVOC+NAP			
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</b>	<b>Special Instructions/Note:</b>
HP-1 12-16 (500-147665-1)		6/27/18	10:40	Central	Solid	
HP-2 12-14 (500-147665-2)		6/27/18	11:10	Central	Solid	
HP-2 14-16 (500-147665-3)		6/27/18	11:15	Central	Solid	
HP-3 12-14 (500-147665-4)		6/27/18	11:30	Central	Solid	
HP-3 14-16 (500-147665-5)		6/27/18	11:40	Central	Solid	
Trip Blank (500-147665-6)		6/27/18	Central		Solid	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>						
<b>Possible Hazard Identification</b>				<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>		
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date/Time: 6/28/18 1630	Company: TA	Received by:		Date/Time: Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time: Company:
Relinquished by:		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time: 6-29-18 0930 Company: TA/VA
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.1		

## Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 500-147665-1

**Login Number: 147665**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Kelsey, Shawn M**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 500-147665-1

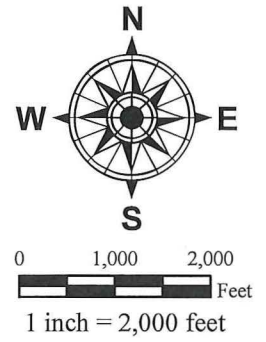
**Login Number: 147665**  
**List Number: 2**  
**Creator: West, Derrick D**

**List Source: TestAmerica Nashville**  
**List Creation: 06/29/18 01:54 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

15

REPRODUCED FROM  
**USGS AMERY QUADRANGLE**  
 WISCONSIN - POLK CO. 7.5 MINUTE SERIES  
 1974



**TOWNSHIP: 32**  
**RANGE: 15**  
**SECTION: 18**

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Document Path: P:\KONINARD\146824\5-final-ds\51-drawings\90-GIS\Maps\Figure 1 - Site Location.mxd



1	07/17/18	XXXXXXXXXXXXXXXXXX	RJH	07/18	JEG	07/18	JEG	07/18
NO.	DATE	ISSUES/REVISIONS	DRAWN BY	DESIGN	FIELD REVIEW	QC CHECK		
<b>LIMITED SUBSURFACE INVESTIGATION                  FORMER CIRCLE C PROPERTY                  CLEAR LAKE, WISCONSIN</b>			<b>FIGURE 1                  SITE LOCATION</b>			PROJ. NO. NARDJ146824	<b>1</b>  <b>2</b>	
						DATE 07/17/18		

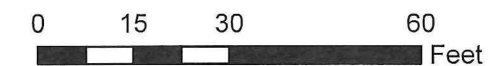
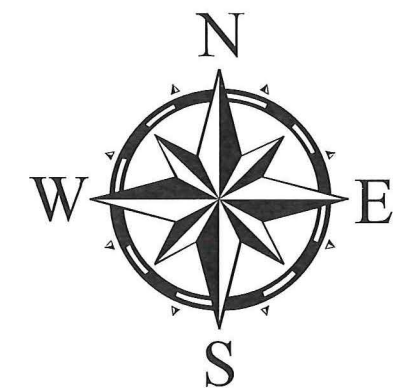


## Legend

- HP-1 SEH Sample Locations and Designations, 2018
- GP-2 Historic Sample Location and Designation

**Note:**  
Boring GP-2 performed by Envirogen in May, 2001. Soil impacts detected from 12-15 feet.

\*All locations depicted are approximate.



Source:  
Polk County, SEH, and WIDNR.  
Projection:  
Polk County Coordinates, Feet  
Map by:  
rjh

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10 North Bridge Street  
Chippewa Falls, WI 54729  
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FAX: (715) 720-6300  
WATTS: 800-472-5881  
www.sehinc.com

PROJECT:  
NARDJ146824

DATE:  
07/17/18

# LIMITED SUBSURFACE INVESTIGATION FORMER CIRCLE C PROPERTY

Clear Lake, Wisconsin

Site Features

Figure  
2

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

Page 1 of 1

Facility/Project Name <b>Former Circle C Site</b>			License/Permit/Monitoring Number		Boring Number <b>HP-1</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <b>Durden</b> Last Name: <b>Prentice</b>			Date Drilling Started <b>06/27/2017</b> m m d d y y y y	Date Drilling Completed <b>06/27/2017</b> m m d d y y y y	Drilling Method <b>Hydraulic Probe</b>
Firm: <b>GEISS</b>					
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <b>2</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <u>N</u> , <u>E</u>			Local Grid Location <u>Lat 45° 15.363'</u> <u>Long 92° 16.179'</u> <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of <u>    </u> 1/4 of Section <u>    </u> , T <u>N</u> , R <u>    </u>		Facility ID			
County <b>Polk</b>		County Code <b>49</b>		Civil Town/City/ or Village <b>Clear Lake</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					P 200	RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
1	48/30	NA		FILL: Brown fine to medium SAND, little Gravel, Trace Silt	FILL			0							
2	48/16							0							
3	48/17			Coarset. Sand @ 10 foot				0.2							likely leached water from 10-12 ft
4	48/30			Brown silty CLAY, some Sand, little Gravel	CL/ML			1265							Petroleum Odor from 12-16 ft.
16				End of Boring @ 16.0'											

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

Signature John E. Sull Firm SEH 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 <b>Former Circle C Site</b>			License/Permit/Monitoring Number		Boring Number <b>HP-2</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <b>Darren</b> Last Name: <b>Prentice</b> Firm: <b>Geiss</b>			Date Drilling Started <b>06/27/2017</b> m m a a y y y y	Date Drilling Completed <b>06/27/2017</b> m m a a y y y y	Drilling Method <b>Hydraulic Probe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <b>2</b> inches
Local Grid Origin <input type="checkbox"/> (Estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E			Local Grid Location Lat <b>45°15'36"</b> _____ N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W Long <b>92°16'18"</b> _____ Feet		
Facility ID		County <b>Polk</b>	County Code <b>49</b>	Civil Town/City/ or Village <b>Clear Lake</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	
1	48 / 31			<del>3" Asphalt</del> <del>Full Brown Silty Sand</del> Brown clayey SAND, SC Little Gravel				0						
2	48 / 41			Brown Loam CHAY, CL Some Sand, little Gravel				0						
3	48 / 48							0						
4	48 / 48							0.1						
10				E.O.P. @ 16 ft				0.5						

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

Signature John E. Seiff Firm SEH Inc.

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

Page 1 of 1

Facility/Project Name <b>Former Circle C Site</b>		License/Permit/Monitoring Number		Boring Number <b>HP-3</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <b>Durbin</b> Last Name: <b>Prentice</b>		Date Drilling Started <b>06/27/2017</b> m m d d y y y y	Date Drilling Completed <b>06/27/2017</b> m m d d y y y y	Drilling Method <b>Hydraulic Probe</b>	
Firm: <b>Grass</b>		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
WI Unique Well No.	DNR Well ID No.	Well Name		Borehole Diameter <b>2</b> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <input type="checkbox"/> N, <input type="checkbox"/> E		Local Grid Location	
1/4 of 1/4 of Section, T N, R		Lat <b>45° 15' 36.5"</b>		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long <b>92° 16' 18.2"</b>		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Polk</b>	County Code <b>49</b>	Civil Town/City/ or Village <b>Clear Lake</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					ROD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	48/30			3" Asphalt											
4	2 48/23			<del>Clayey Brown Clayey Sand + Gravel</del> Brown clayey SAND, Some Gravel	SC					0.1					
8	3 48/48			Brown Lean CLAY, Some Sand, Little Gravel	CL					0.2					
12	4 48/46									0.3					
16				End of Boring @ 16.0ft						0.2					

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature: John E. Staff Firm: SEH 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.

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

County: Polk      WI Unique Well # of Removed Well: HP-1

Latitude / Longitude (see instructions): 45° 15.363' N      92° 16.179' W

Format Code:  DD       DDM

Method Code:  GPS008       SCR002       OTH001

1/4 SW or Gov't Lot #: 1/4 SE      Section: 18      Township: 32 N      Range: 15 W

Well Street Address: 420 Hwy 63

Well City, Village or Town: Clear Lake, WI      Well ZIP Code: 54005

Subdivision Name: \_\_\_\_\_      Lot #: \_\_\_\_\_

## 2. Facility / Owner Information

Facility Name: Former Circle C Site

Facility ID (FID or PWS): BRRTS #03-49-274529

License/Permit/Monitoring #: \_\_\_\_\_

Original Well Owner: \_\_\_\_\_

Present Well Owner: \_\_\_\_\_

Mailing Address of Present Owner: \_\_\_\_\_

City of Present Owner: \_\_\_\_\_      State: \_\_\_\_\_      ZIP Code: \_\_\_\_\_

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

Reason for Removal from Service: Boring Completed

WI Unique Well # of Replacement Well: \_\_\_\_\_

Monitoring Well       Water Well       Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 06-27-2018

If a Well Construction Report is available, please attach: \_\_\_\_\_

Construction Type:

Drilled       Driven (Sandpoint)       Dug

Other (specify): Hydraulic Probe

Formation Type:

Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.): 16      Casing Diameter (in.): NA

Lower Drillhole Diameter (in.): 2      Casing Depth (ft.): NA

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)? NA      Depth to Water (feet): 10 (Perched)

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

Pump and piping removed?       Yes       No       N/A

Liner(s) removed?       Yes       No       N/A

Liner(s) perforated?       Yes       No       N/A

Screen removed?       Yes       No       N/A

Casing left in place?       Yes       No       N/A

Was casing cut off below surface?       Yes       No       N/A

Did sealing material rise to surface?       Yes       No       N/A

Did material settle after 24 hours?       Yes       No       N/A

If yes, was hole retopped?       Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material: Not Hydrated

Gravity       Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials:

Neat Cement Grout       Concrete

Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips       Bentonite - Cement Grout

Granular Bentonite       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
<u>Chipped Bentonite</u>	<u>Surface</u>	<u>16</u>	<u>20 pounds</u>	

## 6. Comments

## 7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Darrin Brantner - Contractor/Down Gull self</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>06-27-2018</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>10 Ns Bridge St</u>	Telephone Number: <u>(715) 720-6200</u>	Comments: _____			
City: <u>Chippewa Falls</u>	State: <u>WI</u>	ZIP Code: <u>54729</u>	Signature of Person Doing Work: <u>John E. Self</u>	Date Signed: <u>6-27-2018</u>	

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 <b>Polk</b>	WI Unique Well # of Removed Well <b>HP-2</b>	Facility Name <b>Former Circle C Site</b>
Latitude / Longitude (see instructions) <b>45° 15' 36" N</b> <b>92° 16' 18" W</b>	Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input checked="" type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
Facility ID (FID or PWS) <b>BRRTS # 03-49-274529</b>	License/Permit/Monitoring #	
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

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

Monitoring Well

Water Well

Borehole / Drillhole

Reason for Removal from Service  
**Boring Completed**

WI Unique Well # of Replacement Well

Original Construction Date (mm/dd/yyyy)  
**06-27-2018**

If a Well Construction Report is available, please attach.

Construction Type:

Drilled       Driven (Sandpoint)       Dug

Other (specify): **Hydraulic Probe**

Formation Type:

Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.)      Casing Diameter (in.)  
**16**      **NA**

Lower Drillhole Diameter (in.)      Casing Depth (ft.)  
**2**      **NA**

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)?      Depth to Water (feet)  
**NA**      **None**

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

Pump and piping removed?       Yes       No       N/A

Liner(s) removed?       Yes       No       N/A

Liner(s) perforated?       Yes       No       N/A

Screen removed?       Yes       No       N/A

Casing left in place?       Yes       No       N/A

Was casing cut off below surface?       Yes       No       N/A

Did sealing material rise to surface?       Yes       No       N/A

Did material settle after 24 hours?       Yes       No       N/A

If yes, was hole retopped?       Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material      **2 Not Hydrated**

~~Gravity~~ Gravity       Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials

Neat Cement Grout       Concrete

Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips       Bentonite - Cement Grout

Granular Bentonite       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	<b>16</b>	<b>Approx 8 pounds</b>	

**6. Comments**

**7. Supervision of Work**

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Darrin Brantner - Geotech / John E. Self</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>06-27-2018</b>	Date Received	Noted By	
Street or Route <b>10 No Bridge St</b>	Telephone Number <b>(715) 720-6200</b>	Comments			
City <b>Chippewa Falls</b>	State <b>WI</b>	ZIP Code <b>54729</b>	Signature of Person Doing Work <b>John E. Self</b>	Date Signed <b>6-27-2018</b>	

# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

County: Polk      WI Unique Well # of Removed Well: HP-3

Latitude / Longitude (see instructions):  
45° 15.365' N       DD       GPS008  
92° 16.182' W       DDM       SCR002  
 OTH001

1/4 SW      1/4 SE      Section: 18      Township: 32 N      Range: 15  E  W

Well Street Address: 420 Hwy 63

Well City, Village or Town: Clear Lake, WI      Well ZIP Code: 54005

Subdivision Name: \_\_\_\_\_      Lot #: \_\_\_\_\_

## 2. Facility / Owner Information

Facility Name: Former Circle C Site

Facility ID (FID or PWS): BRRTS #03-49-274529

License/Permit/Monitoring #: \_\_\_\_\_

Original Well Owner: \_\_\_\_\_

Present Well Owner: \_\_\_\_\_

Mailing Address of Present Owner: \_\_\_\_\_

City of Present Owner: \_\_\_\_\_      State: \_\_\_\_\_      ZIP Code: \_\_\_\_\_

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

Reason for Removal from Service: Boring Completed      WI Unique Well # of Replacement Well: \_\_\_\_\_

Monitoring Well      Original Construction Date (mm/dd/yyyy): 06-27-2018

Water Well

Borehole / Drillhole      If a Well Construction Report is available, please attach: \_\_\_\_\_

Construction Type:  
 Drilled       Driven (Sandpoint)       Dug  
 Other (specify): Hydraulic Probe

Formation Type:  
 Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.): 16      Casing Diameter (in.): NA

Lower Drillhole Diameter (in.): 2      Casing Depth (ft.): NA

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)? NA      Depth to Water (feet): NONE

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

Pump and piping removed?       Yes       No       N/A

Liner(s) removed?       Yes       No       N/A

Liner(s) perforated?       Yes       No       N/A

Screen removed?       Yes       No       N/A

Casing left in place?       Yes       No       N/A

Was casing cut off below surface?       Yes       No       N/A

Did sealing material rise to surface?       Yes       No       N/A

Did material settle after 24 hours?       Yes       No       N/A

If yes, was hole retopped?       Yes       No       N/A

If bentonite chips were used, were they hydrated with water from a known safe source?       Yes       No       N/A

Required Method of Placing Sealing Material: Not Hydrated

Gravity       Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials:  
 Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:  
 Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

## 5. Material Used to Fill Well / Drillhole

Chipped Bentonite

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	16	25 lbs (approx)	

## 6. Comments

## 7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing: <u>Darrin Brantner - Geosys/Down Girl self</u>	License #: _____	Date of Filling & Sealing or Verification (mm/dd/yyyy): <u>06-27-2018</u>	Date Received: _____	Noted By: _____	
Street or Route: <u>10 N Bridge St</u>	Telephone Number: <u>(715) 720-6200</u>	Comments: _____			
City: <u>Chippewa Falls</u>	State: <u>WI</u>	ZIP Code: <u>54729</u>	Signature of Person Doing Work: <u>John E. Self</u>	Date Signed: <u>6-27-2018</u>	