

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

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

Definitions

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

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

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

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

Select the Correct Form

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

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

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

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

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

Instructions

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

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

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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 Oehring	First Dennis	MI	Organization/ Business Name RockGen Energy Center
Mailing Address 2346 Clear View Road		City Cambridge	State WI
		ZIP Code 53523	
Phone # (include area code) (608) 423-1181	Fax # (include area code)	Email dennis.oehring@rockgenenergy.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 Ramey	First Jeff	MI T	Organization/ Business Name TRC
Mailing Address 6736 W. Washington Street, Suite 2100		City West Allis	State WI
		ZIP Code 53214	
Phone # (include area code) (414) 294-9247	Fax # (include area code)	Email jramey@trccompanies.com	

Environmental Consultant (if applicable)

Contact Last Name Ramey	First Jeff	MI T	Organization/ Business Name TRC
Mailing Address 6737 W. Washington Street, Suite 2100		City West Allis	State WI
		ZIP Code 53214	
Phone # (include area code) (414) 294-9247	Fax # (include area code)	Email jramey@trccompanies.com	

Attorney (if applicable)

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

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	

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Section 2. Property Information

Property Name RockGen Energy Center		FID No. (if known)	
BRRTS No. (if known) 02-13-587341	Parcel Identification Number 061223285002		
Street Address 2346 Clear View Road	City Cambridge	State WI	ZIP Code 53523
County Dane	Municipality where the Property is located <input type="radio"/> City <input checked="" type="radio"/> Town <input type="radio"/> Village of Christiana	Property is composed of: <input type="radio"/> Single tax parcel <input checked="" type="radio"/> Multiple tax parcels	Property Size Acres 78

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: 10/18/2021

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).

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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.

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.

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Section 4. Request for Liability Clarification (cont.)

- Lease liability clarification - s. 292.55, Wis. Stats. [646]
- ❖ **Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:**
- (1) a copy of the proposed lease;
 - (2) the name of the current owner of the Property and the person who will lease the Property;
 - (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
 - (4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
 - (5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
 - (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

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

- ❖ **Include a fee of \$700 and an adequate summary of relevant environmental work to date.**
- No Action Required (NAR) - NR 716.05, [682]
- ❖ **Include a fee of \$700.**
- Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.
- Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]
- ❖ **Include a fee of \$700.**
- Include a copy of any closure documents if a state agency other than DNR approved the closure.

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

Section 5. Request for a Specialized Agreement

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

- Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]
- ❖ **Include a fee of \$700, and the information listed below:**
- (1) Phase I and II Environmental Site Assessment Reports,
 - (2) a copy of the Property deed with the correct legal description.
- 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.
- 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.

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Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

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: _____

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.

Section 7. Certification by the Person who completed this form

I am the person submitting this request (requester)

I prepared this request for: Dennis Oehring

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

9/24/2021
Date Signed

Senior Project Manager

Title

(414) 294-9247
Telephone Number (include area code)

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Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a [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

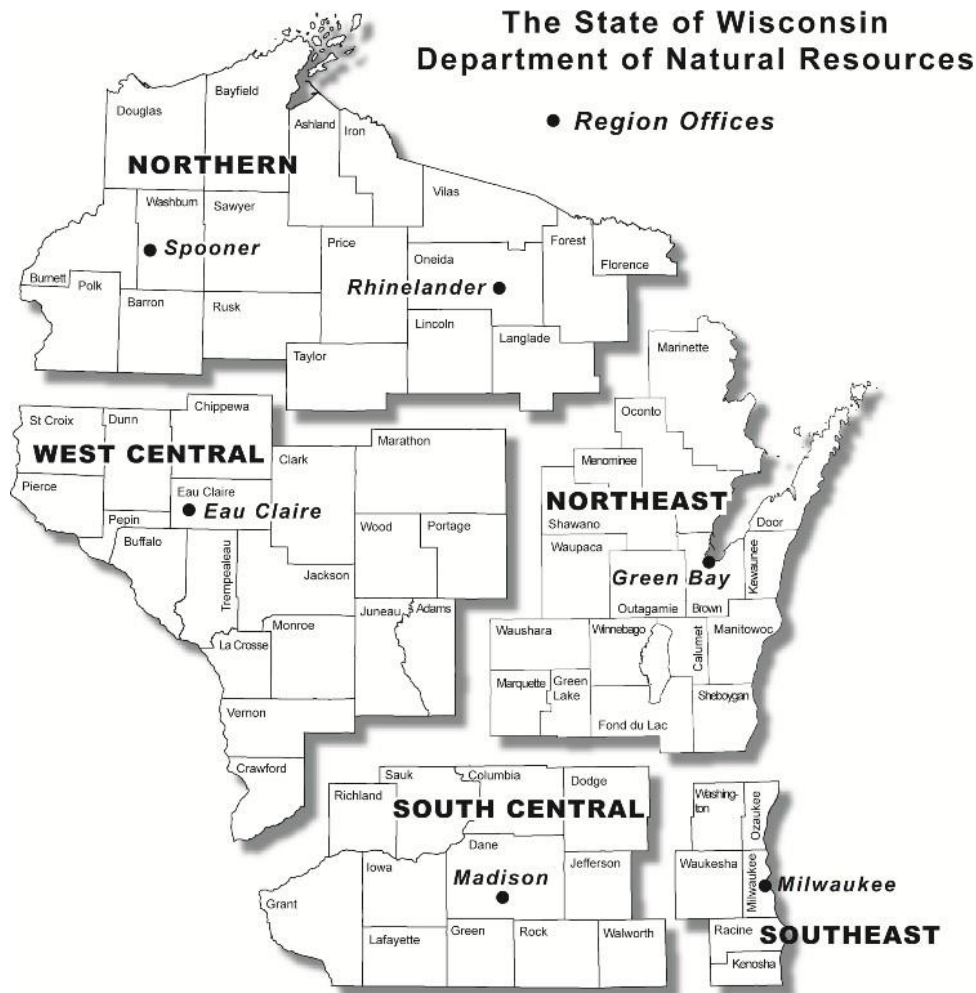
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

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		



Site Investigation Report

**RockGen Energy Center
Town of Christiana, Wisconsin**

September 2021

BRRTS #02-13-587341

Prepared For:

RockGen Energy, LLC
2346 Clear View Road
Cambridge, WI 53523

Prepared By:

TRC
6737 West Washington Street, Suite 2100
West Allis, Wisconsin 53214

A handwritten signature in blue ink that reads "Lydia Auner".

Lydia Auner
Project Geologist

A handwritten signature in blue ink that reads "Kenneth J. Quinn".

Kenneth J. Quinn, P.G. (WI)
Technical Director - Hydrogeologist

A handwritten signature in blue ink that reads "Jeff Ramey".

Jeff Ramey
Senior Project Manager

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Executive Summary

TRC Environmental Corporation (TRC), on behalf of RockGen Energy, LLC (RockGen), has conducted site investigation activities for the RockGen Energy Center (Site) located at 2346 Clear View Road, Cambridge, Wisconsin, under Wisconsin Department of Natural Resources (WDNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) #02-13-587341. The purpose of the site investigation is to define the degree and extent of per- and polyfluoroalkyl substances (PFAS) associated with the Site. Based on the chemical signature of PFAS detected in the investigation, intermittent inspection testing of aqueous film-forming foam (AFFF) for the site's fire suppression system is thought to be the source of PFAS associated with the Site.

TRC conducted initial site investigation activities between April and July 2021 including soil sampling at 30 locations; stormwater sampling; packer interval sampling of the site potable well; sampling of the Site deep production wells; installation, development, and sampling of seven monitoring wells and one piezometer; hydraulic conductivity analysis for three monitoring wells; and sampling of a downgradient private well.

PFAS have been detected in soil, stormwater, and groundwater at the site. PFAS concentrations in soil and groundwater samples are generally highest in the AFFF testing area, but impacts are also present in other areas of the site, possibly due to the transport of PFAS via pathways such as the storm sewer and septic system.

Soil sample results indicate PFAS impacts to soil in the AFFF testing area, the septic mound area, the western swale, and the stormwater outlet and wooded drainage channel area at concentrations above generic and below site-specific groundwater pathway criteria and less than NR 720 direct contact residual contaminant levels (RCLs). WDNR has accepted an Interim Action Workplan to address the pathways affected by PFAS-impacted soils at the Site.

Groundwater sample results indicate PFAS at concentrations greater than the proposed NR 140 enforcement standards (ESs) in the vicinity of the AFFF testing area (including the site potable well), in the northwest corner of the site near the storm sewer outlet, and downgradient from the septic mound. WDNR has accepted a supplemental investigation workplan (SIWP) to further define the horizontal and vertical extents of PFAS impacts in groundwater at the Site. The findings of the supplemental investigation will be used to determine if additional investigation and/or remediation are needed, including a potential interim action for a groundwater extraction and treatment system or monitored natural attenuation.



1.0 Project Management Plan

1.1 Site Information

Parcel #061223285002
Town of Christiana, Dane County, Wisconsin
BRRTS #02-13-587341
X Coordinate (WTM91): 597536
Y Coordinate (WTM91): 278545
NW ¼ of NW ¼, Section 23, T06N R12E

Responsible Party

RockGen Energy, LLC
2346 Clear View Road
Cambridge, WI 53523

Attention: Mr. Dennis Oehring
608-423-1181
dennis.oehring@rockgenenergy.com

Environmental Consultant

TRC Environmental Corporation (TRC)
6737 West Washington Street, Suite 2100
West Allis, WI 53214

Attention: Jeff Ramey, Senior Project Manager
414-294-9247
jramey@trccompanies.com

1.2 Certified Hydrogeologist Certification

I, Kenneth J. Quinn, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.




Signature

September 24, 2021
Date

2.0 Introduction

2.1 Property Description and Information

The subject property is located at 2346 Clear View Road in the Town of Christiana, Dane County, Wisconsin and consists of two parcels (parcel #061223285002 and parcel #061223290005) covering 77.81 acres (**Figures 1 and 2**). The RockGen Energy Center, a natural gas- and fuel oil-fired power generation facility, is located on the northeast quadrant of the property. For the purposes of this site investigation, the “Site” is considered to be the extent of the RockGen Energy Center, located on the eastern portion of the northern parcel of the property (parcel #061223285002) and covers an area of approximately 10 acres. The Site is located in the NW ¼ of the NW ¼ of Section 23, Township 6N, Range 12E. The mailing address for the property references the City of Cambridge; however, the property is located within the Town of Christiana.

A former limestone quarry is located on the northwest quadrant of the property and agricultural land is located on the southern portion of the property. The former homestead (including house and barn) visible on the southern portion of the property in the aerial imagery on **Figure 2** is no longer present. A current property deed and certified survey map for the property at 2346 Clear View Road (parcel #061223285002 and parcel #061223290005) are included in **Appendix A**.

The subject property is predominantly surrounded by agricultural fields and associated residences (**Figure 2**). The Wisconsin Power & Light Company Rockdale Switching Station is located approximately 1,000 feet east of the Site, and T & T Stone Co., Inc. operates a quarry approximately 1,500 feet northeast of the Site.

2.2 Background

A Phase I Environmental Site Assessment (ESA) for the property was completed on behalf of Calpine Operating Services Company, Inc. (Calpine) in March 2019. The Phase I ESA was conducted for the entire property consisting of 77.81 acres (parcel #061223285002 and parcel #061223290005). No recognized environmental conditions or de minimis conditions were identified. The following historical site use information was obtained from the Phase I ESA:

- 1910 – Agricultural (dairy farm) use on southeast portion of property.
- 1945 – Limestone quarry operated by T&T Stone Co. Inc. on northwest portion of property.
- 2000 – A previous owner constructed of a natural gas- and fuel oil-fired power generation facility on the northeast portion of the property, which included three combustion turbines and generators, three aboveground storage tanks, and support structures.
- 2019 – Property transfer from the previous owner to the current owner of RockGen Energy, LLC (RockGen).
- Current - The Site continues to operate as the RockGen natural gas- and fuel oil-fired power generation facility.

On March 8, 2021, RockGen was notified by a consultant working on behalf of a third party that per- and polyfluoroalkyl substances (PFAS) were detected in a sample collected from a kitchen sink tap at the facility. RockGen immediately discontinued use of the on-site potable well for drinking water purposes and provided bottled water to the employees. RockGen confirmed the presence of PFAS in the unfiltered kitchen sink tap and subsequently reported the results to the Wisconsin Department of Natural Resources (WDNR). On March 19, 2021, the Site was assigned Bureau for Remediation and Redevelopment Tracking System (BRRTS) #02-13-587341 and RockGen Energy, LLC was identified as the responsible party (RP) in a WDNR letter issued March 23, 2021. On April 31, 2021, a 3M-NSF certified filtration system was installed to filter the potable well water.

TRC, on behalf of RockGen, prepared and submitted a site investigation work plan (SIWP) that was granted conditional approval by the WDNR on April 9, 2021. TRC conducted the initial phases of the site investigation from April through July 2021 in accordance with the SIWP and conditional approval letter. Based on the results from the initial site investigation activities, TRC submitted an Interim Action Workplan on July 23, 2021 describing proposed interim source control actions that received WDNR approval on July 30, 2021. TRC also submitted a Supplemental SIWP on August 6, 2021 to further define the degree and extent of PFAS in groundwater that received WDNR approval on August 13, 2021.

2.3 Purpose of Site Investigation

The purpose of this site investigation is to:

- define the nature, degree, and extent of PFAS in soil, stormwater, and groundwater associated with the Site, and
- characterize the groundwater flow direction and hydraulic conductivity of materials where PFAS are found in groundwater.

2.4 Scope of Report

The purpose of this site investigation report (SIR) is to provide a summary of the initial site investigation activities, investigation results, conclusions, and recommendations. The site investigation is not yet complete, as a supplemental investigation is recommended to further define the extent of PFAS in groundwater. A supplemental Site investigation is detailed in the August 2021 Supplemental SIWP. A summary of the proposed interim actions is included in this report and full details are provided in the July 2021 Interim Action Workplan.

3.0 Site Conditions

3.1 Topography

Regional topographical information shown on **Figure 1** indicates the site elevation is approximately 930-940 feet (ft) above mean sea level (amsl) and regional topography generally slopes to the southeast. Topography within the Site generally slopes to the north and west, from approximately 940 ft amsl in the southern half of the site to 930 ft amsl in the northwest corner (**Figure 3**). A drainage swale runs north/south on the western edge of the Site extent area. A stormwater drainage channel runs from the storm sewer outlet near the northwest corner of the Site through the forested area towards the storm water retention basin in the northwest corner of the property. The stormwater drainage channel is well-defined in some areas but may split or spread out within the forested area. A former limestone quarry is located approximately 90 ft west of the Site, which appears to intermittently contain water based on aerial imagery. The base of the quarry is approximately 890 ft amsl (about 40-50 ft below the Site elevation).

The nearest mapped surface water is an unnamed intermittent stream located approximately 1,360 ft west of the site. Based on aerial imagery, there also appears to be a small pond or drainage basin located approximately 1,400 ft east of the Site, to the south of an electrical substation. Koshkonong Creek is located approximately 4,000 ft (0.75 miles) southeast of the Site and approximately 4,400 ft (0.83 miles) east of the Site.

3.2 Site Features

Major aboveground structures on Site include three power generating units; storage tanks for fuel oil, service water, and demineralized water; a fire pump house; fuel oil unloading area; and a control/maintenance building, as shown on **Figure 4**.

Subsurface utilities on Site include the storm sewer, underground process piping, and septic system, as shown on **Figure 4**. Pre-construction drawings of subsurface utilities are provided in **Appendix B**. A grounding grid is present across most of the site and consists of grounding cables in a grid pattern buried approximately 1"-6" below grade, according to the pre-construction drawings (**Appendix B**).

Three water wells are currently in use at the Site, including one potable water well that provides drinking and sanitary water to the facility and two high-capacity wells that provide water for the power generation processes (**Figure 4**). Well construction records for these wells (**Appendix B**) indicate the potable well is cased to 100 ft bgs and installed to a total depth of 215 ft bgs. The two deep production wells are both cased to 514 ft bgs and installed to total depths of 982 and 1043 ft bgs, respectively.

Sanitary wastewater from the facility is routed to an on-site septic system and mound drain field located in the grassy area east of the buildings, as shown on **Figure 4**. The design of the mound drain field is included in Appendix E of the April 2021 SIWP, and in general consists of a single distribution pipe laid in a gravel bed topped with a straw, marsh hay, or synthetic covering, surrounded by sand and covered with topsoil. The gravel bed is approximately 40 ft. long, 5 ft. wide, and 0.83 ft. thick and consists of 0.5 in. to 2.5 in. diameter gravel. The mound is approximately 60 ft long, 23 ft wide, and 3.33 ft high at the tallest point. The water used for sanitary purposes is directly obtained from the potable well and has been filtered with a 3M-NSF certified system since April 31, 2021.

3.3 Historical PFAS Use

RockGen has a fire suppression system for its fuel oil storage tank that uses PFAS-based aqueous film forming foam (AFFF). The system is designed to release AFFF only into the fuel oil tank and its secondary containment tank. The secondary containment tank is the tank visible on the aerial photo in **Figure 4** and the fuel oil tank is located inside of the exterior tank. A storage tank of foam concentrate for the fire suppression system is located in the fire pump house (**Figure 4**). The AFFF concentrate is designed to be mixed with water to form a foam solution. Piping for the foam extends from the fire pump house to the fuel oil tank. The AFFF concentrate currently in the Fire Suppression System is Ansulite 3% AFFF (AFC-3A). Safety data sheets (SDS) and Ansul product sheets for this AFFF were provided in Appendix C of the April 2021 SIWP.

According to the Phase I ESA and Site contacts, there have been no actual fire events or emergency responses where the Fire Suppression System deployed AFFF. In March 2019, the Fire Suppression System deployed into the fuel oil tank in response to a sensor triggered by a suspected high temperature event. The foam deployed during the March 2019 event was contained within the inner fuel oil tank and disposed of offsite by a third-party vendor. The March 2019 event occurred prior to acquisition of the facility by its current owner.

Testing inspections of the Fire Suppression System were conducted on behalf of the previous facility owner by J.F. Ahern Co. According to Site contacts, foam inspection testing resulted in one or more releases of foam in the area indicated in **Figure 4** as the approximate area of AFFF inspection testing, including the ground between the fire pump house and the fuel oil unloading area and the sump in the fuel oil unloading area. Based on conversations with RockGen, the most recent foam system inspection occurred in November 2018, prior to acquisition of the facility by its current owner. The J.F. Ahern Co. foam inspection reports or foam sample results from 2008, 2009, 2012, 2014, 2015, and 2018 were provided in Appendix D of the April 2021 SIWP. The foam inspection reports indicate the AFFF that was inspected in the Fire Suppression System was AFC-3A.

The 2008 foam inspection report indicated that the foam concentrate tank contained approximately 725 gallons of AFC-3A before inspection and 710 gallons after inspection. Subsequent inspection reports also document a reduction of AFC-3A in the tank and there is no indication that AFFF was added to the tank from 2008 to 2018. The 2018 foam inspection report indicated that the measured quantity of concentrate was 530 gallons. Based on these records, it is possible that up to a maximum of 195 gallons of AFC-3A concentrate (equating to 6,500 gallons of 3% foam solution) may have been used during foam inspections between 2008 and 2018; however, it is unknown exactly how much foam may have been released to the environment, if any releases of foam may have occurred prior to this window of time, or whether foam may have been deployed into the fuel oil tank as a result of sensors being triggered, as happened in March 2019.

3.4 Potential Migration Pathways

Surface water from the AFFF inspection testing area (excluding the sump) drains into a storm sewer inlet located to the northwest of the testing area and is routed to the storm sewer outlet located near the northwest corner of the Site, as shown on **Figure 4**. Storm water discharging from the storm sewer outlet flows through the wooded area, where a drainage channel is present,

and ultimately drains to the storm water retention basin on the northwest corner of the property, as shown on **Figure 3**.

A utility corridor runs north-south beneath the approximate area of AFFF inspection testing, as shown on **Figure 4**. Utility corridors can have the potential to serve as preferential pathways, especially when backfilled with material that has a higher permeability than the surrounding material. If this corridor is excavated into bedrock and backfilled with sand and/or gravel, it could serve as a preferential pathway. However, the extent and depth of bedrock excavation during original site construction is unknown. The capping of this potential preferential pathway is addressed in the July 2021 Interim Action Workplan.

As discussed in Section 3.2, sanitary wastewater from the facility is routed to an on-site septic system and mound drain field located in the grassy area east of the buildings, as shown on **Figure 4**.

The three existing Site wells are constructed with open bedrock boreholes, which have the potential to serve as vertical conduits for PFAS-impacted groundwater. The potable well, which has an open borehole from approximately 100 to 200 ft bgs, may facilitate downward transport of groundwater within the well during periods of time when the well is not pumping.

3.5 Regional Geology and Hydrogeology

Shallow, unconsolidated sediments in the area are mapped as subglacial till of the Horicon Member of the Holy Hill Formation, described as gravelly, clayey, silty sand (Clayton and Attig, 1997). Bedrock at the Site is mapped as the Ordovician Sinnipee Group, consisting of the Galena dolomite, Decorah shale, and Platteville dolomite and shaly dolomite (Brown et al., 2013). Depth to bedrock is mapped at 0 to 50 ft below ground surface (bgs) (Trotta and Cotter, 1973).

The previous well construction records for the three existing facility wells and two abandoned facility wells indicated limestone is present at the ground surface, and generally indicate the following stratigraphy:

- Limestone with some sandstone layers from ground surface (0 ft bgs) to lower depths ranging from 55 to 70 ft bgs.
- Sandstone with shale layers from upper depths ranging from 55 to 70 ft bgs to lower depths ranging from 97 to 135 ft bgs.
- Dolomite with shale and/or sandstone layers from upper depths ranging from 97 to 135 ft bgs to lower depths ranging from 180 to 220 ft bgs.
- Sandstone with dolomite and shale layers from upper depths ranging from 180 to 220 ft bgs to lower depths ranging from 1030 to 1100 ft bgs.
- Granite beginning at depths ranging from 1030 to 1100 ft bgs.

The nearest mapped surface water is an intermittent stream to the west of the Site located at an approximate elevation between 880 and 890 ft amsl. The intermittent nature of the stream indicates that it is located above the water table and is therefore not interpreted to be the nearest groundwater discharge point. The next closest surface water body is Koshkonong Creek, located to the east at an elevation of approximately 815 ft amsl and to the southeast at an elevation of

approximately 810 ft amsl. Therefore, the shallowest groundwater at the Site is expected to flow to the east or southeast and discharge to Koshkonong Creek. This interpretation is supported by the 2016 Dane County Groundwater Flow Model, which predicts flow to the east/southeast in the vicinity of the Site (Parsen et al., 2016).

4.0 Site Investigation Methods

The investigation was completed in accordance with the April 2021 SIWP, with additional items including those requested in the WDNR's Conditional Approval of Site Investigation Workplan dated April 9, 2021. Sample locations are shown on **Figure 5**.

4.1 Soil Investigation

Soil sampling was conducted in two stages, in accordance with the SIWP: the first on April 20 and 21, 2021, and the second on May 10 and 11, 2021.

4.1.1 April 2021

The initial soil sampling was completed on April 20 and 21, 2021 by TRC and its Geoprobe subcontractor, Direct Push Analytical. The sampling included 16 soil borings (SB-01 through SB-16) installed to refusal and three surficial soil samples (SS-01 through SS-03) at the locations shown on **Figure 5**, along with associated QC samples. Soil borings were installed using direct push methods except where a hand auger was used in the septic mound area, as described below. The three soil borings proposed in the work plan near the AFFF inspection testing area could not be installed due to the presence of an underground utilities, and these boring locations were replaced with surficial soil samples collected using a shovel.

Soil samples from borings in the area of the Fire Suppression System and near the inlet and outlet of the storm sewer that drains the AFFF inspection testing area were composited from the 0-2 ft bgs interval where possible, as specified in the work plan. Soil boring SB-06 was sampled from 0-1.5 ft bgs due to refusal at 1.5 ft bgs and soil boring SB-14 was sampled from 0-4 ft bgs due to insufficient recovery at 0-2 ft bgs.

Four soil borings were installed in the septic mound area, as planned: two along the centerline of the mound (SB-10 and SB-13) and two along the lateral edges (SB-11 and SB-12). A hand auger was used for the upper portions of the boreholes along the centerline of the mound to avoid damaging the septic system pipe. Two soil samples were collected from each of the soil borings along the centerline of the mound: one sample from the two-foot interval below the gravel bed of the septic mound (~2-4 ft bgs) and a deeper sample from the two-foot interval ending at the refusal depth. Soil samples were collected from the soil borings along the lateral edges of the mound from directly beneath the sand of the septic system base (2-4 ft bgs) and the two-foot interval ending at the refusal depth, but the deeper samples were not analyzed based on the results from the shallower samples.

Surficial soil samples from locations SS-01 through SS-03 were collected from 0-1 ft bgs using a shovel.

Soil samples were placed in stainless-steel bowls and homogenized using gloved hands and/or a stainless-steel spatula prior to being placed in containers for laboratory analysis. Decontamination procedures followed those outlined in the work plan.

The following equipment blanks were collected as rinsate samples:

- EB-01-202104: stainless-steel bowl (after decontamination) and gloved hand (new gloves)

- EB-02-202104: geoprobe liner (new) and cutting shoe (after decontamination)
- EB-03-202104: shovel (after decontamination) used for surficial soil sampling

The boreholes were abandoned in accordance with NR 141.25 by plugging the open portion of the borehole with bentonite chips to the ground surface. Soil boring logs and abandonment forms are included in **Appendix C**.

4.1.2 May 2021

Additional soil sampling was completed by TRC on May 10 and 11, 2021 to further delineate PFAS impacts along the swale on the western edge of the plant area and around the stormwater drainage channel in the northwest portion of the property. Sampling included six soil borings along the western swale and fence line (SB-17 through SB-22), four soil borings in the vicinity of the stormwater drainage channel (SB-23 through SB-26), and one surficial soil sample between the wooded area and the stormwater retention basin (SS-04). The surficial soil sample was collected because a hand auger boring was not feasible in this area due to the rocky terrain; the only soil observed was small amounts between or on top of rocks.

The soil borings were installed primarily using hand augers, though shovels were used to clear rocks from hand auger borings as needed. Borings along the western edge of the site were installed to 2 ft bgs or refusal, if shallower. Borings around the stormwater drainage channel were installed to 4 ft bgs or refusal, if shallower.

Soil samples were placed on new plastic sheeting for each borehole and a subsample of soil representing each two-foot interval was homogenized by hand on the plastic sheeting using new gloves before being placed in sample containers.

The following equipment blanks were collected as rinsate samples associated with this soil sampling:

- EB-06-202105: two hand augers, shovel, plastic sheeting, gloves (for soil borings)
- EB-07-202105: trowel, plastic sheeting, glove (for surficial soil sample)

The boreholes along the western swale and fence line were abandoned by filling the open borehole with bentonite chips and/or replacing the rocks and soil/grass removed with a shovel back into the shovel hole. The boreholes in the wooded area were abandoned by filling the borehole with the soil from the borehole. Soil boring logs are included in **Appendix C**.

4.2 Stormwater Sampling

Stormwater samples were collected from the storm sewer outlet (as shown on **Figure 2**) during a rain event on June 29, 2021. Precipitation started prior to the arrival of TRC field staff and the exact time of the start of flow at the outlet is unknown. The first stormwater sample is approximately the “first flush” sample (collected within 30 minutes of first flow), as had been requested by the WDNR. Sampling included two samples collected 100 minutes apart, a duplicate sample, and a field blank. Samples were collected from the flow of the storm sewer outlet by submerging laboratory containers approximately 2 inches beneath the surface of the flowing water.

4.3 Groundwater Investigation

4.3.1 Potable Well Packer Interval Sampling

Groundwater sampling was conducted using straddle packers to isolate intervals within the open borehole of the potable well between the bottom of the casing at 100 ft bgs and the bottom of the well measured at 199 ft bgs. Groundwater samples were collected from the following five intervals of 17-21 ft each: 100-117 ft, 116.25-137.25 ft, 136.75-157.75 ft, 157.5-178.5 ft, and 175.25-196.25 ft. These intervals were designed to overlap slightly with the intention of sampling the entirety of the open borehole except the bottom 2.75 ft of the well that could not be sampled because the lower packer blocked that space. At least 10 times the volume of each packer interval was purged prior to collecting a sample from that interval.

4.3.2 Monitoring Well Installation and Development

Seven NR 141-compliant monitoring wells (MW-01 through MW-07) were installed to intersect the water table, as depicted in **Figure 5**. Boreholes for the monitoring wells were installed using rotasonic drilling methods. Wells were constructed with schedule 40 PVC and 10- or 15-ft screens. Well construction was completed as proposed in the work plan with the following exceptions: some wells were constructed with 15 ft screens instead of 10 ft screens, the location of MW-4 was adjusted due to the presence of an underground utility corridor, and the upper six inches of soil was removed from a circular area of at least 8 inches in diameter prior to drilling in order to prevent leakage of drilling fluids from the mud tub created by a 1.5 ft by 1.5 ft square hole specified in the SIWP. Boring log and well construction forms are provided in **Appendix C**.

Monitoring wells were developed in accordance with NR 141. All wells were developed by bailing with disposable HDPE bailers and then pumping with a submersible pump if the well did not bail dry. Well development forms are provided in **Appendix C**.

4.3.3 Piezometer Installation and Development

One piezometer, PZ-01, was installed in the vicinity of monitoring well MW-05 as depicted in **Figure 5**. The piezometer was constructed with permanent 6" steel casing from 0-280 ft bgs and screened from 290-300 ft bgs. The piezometer was developed in accordance with NR 141 by purging water from the well using an inertial pump. The boring log, well construction form, and well development form for PZ-01 are included in **Appendix C**.

4.3.4 Site Groundwater Monitoring

Two groundwater monitoring events have been conducted on Site, in May and July 2021. The first round of groundwater sampling was conducted on May 17 and 19, 2021. Samples were collected from the seven monitoring wells (MW-01 through MW-07) and two deep production wells (Well 1 and Well 2). Water levels in the monitoring wells were measured on May 17, 2021 prior to sampling; however, because well development was still underway for some wells on May 17, an additional round of water level measurements was collected on May 27, 2021. Groundwater elevation measurements are provided in **Table 1**. The piezometer (PZ-01) was sampled on July 1, 2021 after installation was completed.

The second round of groundwater sampling was conducted during July 14-16, 2021. Samples were collected from the seven monitoring wells (MW-01 through MW-07), the on-site potable well,

two deep production wells (Well 1 and Well 2), and the piezometer (PZ-01). The monitoring well sampling was conducted using a portable bladder pump. Piezometer sampling was conducted using the dedicated bladder pump.

4.3.5 Hydraulic Conductivity Analysis

Hydraulic conductivity analysis was performed on May 20 and 21, 2021 at three of the monitoring wells: MW-01, MW-03, and MW-05, which were selected to represent a range of hydraulic conductivities based on observations made during well development. Slug tests were conducted by removing a slug of water using a bailer to induce a temporary decrease in hydraulic head while a pressure transducer was used to record recovery. Hydraulic conductivity estimates were calculated using routine methods, as documented in **Appendix D**.

4.3.6 Off-Site Private Well Sampling

On July 21, 2021, TRC collected a groundwater sample from the private well located at the residential property to the southeast of the Site, 2304 Carpenter Swain Road. The water sample was collected from a tap located upstream of the pressure tank after purging 35 gallons of water (at least one volume of the 33.4-gallon expansion tank) from the tap. A field blank was collected in the same location where the water sample was collected.

4.4 Sample Analysis

Soil and water samples were analyzed for 33 PFAS analytes, as recommended by the WDNR at the time of sampling and approved in the SIWP, by a laboratory certified under NR 149. Stormwater samples were also analyzed for total suspended solids (TSS) using EPA Method 2540D.

4.5 Investigation-Derived Waste

Investigation-derived waste (IDW) generated during this investigation included decontamination fluids, soil cuttings/excess sample material, rock cuttings and mud tub cuttings from roto-sonic drilling, cuttings from mud rotary drilling, purge water from the potable well, purge water and development water from the monitoring wells and piezometer, and general refuse (e.g., used personal protective equipment, single-use sampling equipment, and trash).

Decontamination fluids, rock cuttings and mud tub cuttings from roto-sonic drilling, cuttings from mud rotary drilling, purge water from the potable well, and purge water and development water from the monitoring wells and piezometer were containerized, labeled with the contents, and left on site pending future characterization. Some soil cuttings from the May 2021 sampling were returned to the hand-augered boreholes from which they were removed, as described in **Section 4.1.2**. The other soil cuttings from May 2021 and the soil boring cuttings from April 2021 were containerized, labeled, and left on site pending characterization results. General refuse was collected in trash bags and placed in a waste dumpster.

5.0 Results

5.1 Geology and Hydrogeology

5.1.1 Soil and Bedrock Units

Based on sampling during well drilling and refusal depths from direct push and hand auger soil borings, depth to bedrock ranges from approximately 1 to 16 ft bgs. Bedrock was most shallow along the swale on the western edge of the Site. Depth to bedrock of 10 ft or more was observed in the northwest corner of the site (MW-01), near the AFFF testing area (MW-04), in the area of the septic mound, and in the farm field south of the Site (in MW-07). Given the shallow depth to bedrock, it is expected that bedrock may have been excavated for the installation of subsurface utilities in the utility corridor that runs north-south through the AFFF testing area. The exact depth of excavation is not known and drilling was not conducted in this area due to the presence of utilities.

Soil observed during the investigation included clay, silt, sand, and gravel. In general, sand and gravel assumed to be fill material were predominant in the areas where sand and gravel is the surficial material at the site, and silt and clay were predominant in the grassy or vegetated portions of the site.

The uppermost carbonate bedrock, interpreted as dolomite based on regional geology, was observed to extend to approximately 51-56 ft bgs during drilling for the monitoring wells MW-02 through MW-07 and the piezometer PZ-01. During drilling for the monitoring wells, no sample was recovered for the bottom 6-16 feet of each boring; sandstone is presumed to occur in these intervals of no recovery. Drilling for piezometer PZ-01 indicated sandstone from 54-86 ft bgs, dolomite from 86-158 ft bgs, and sandstone from 158-300 ft bgs.

5.1.2 Hydrogeology

Groundwater elevations measured in May and July 2021 are summarized in **Table 1**, and water table contours and flow direction are depicted on **Figures 6 and 7**. Groundwater elevations measured in monitoring wells during May and July 2021 ranged from about 883 to 886 ft amsl, corresponding to depths to water around 54 to 58 ft bgs in wells MW-02 through MW-07 and around 43 ft bgs in MW-01. These water table elevations generally occur within the interval where no bedrock samples were recovered during monitoring well installation, which is presumed to be sandstone underlying the upper dolomite. The groundwater flow direction at the water table is generally to the southeast based on the May and July 2021 measurements.

The groundwater elevation measured in piezometer PZ-01 in July 2021 was approximately 845 ft amsl, or about 98 ft bgs. PZ-01 is screened from 290-300 ft bgs within a sandstone layer that is separate from the sandstone where the water table is encountered.

Hydraulic conductivity tests conducted in MW-01, MW-03, and MW-05 indicate hydraulic conductivity values ranging from approximately 1×10^{-4} cm/sec to 1×10^{-3} cm/sec, as summarized in **Appendix D**.

5.2 Analytical Results

Analytical results are provided in **Tables 2-5**. Laboratory reports were previously submitted to the WDNR in interim submittals dated May 7, 2021; May 28, 2021; July 16, 2021; July 30, 2021; and August 6, 2021 and are available on BRRTS. As such, copies of these laboratory reports are not included with this report.

5.2.1 Data Usability Review

The analytical data were reviewed using the Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018). The following items were included in the evaluation of the data:

- sample receipt, as noted in the cover page or case narrative;
- technical holding times for analyses;
- reporting limits (RLs) compared to project-required RLs;
- data for method blanks, equipment blanks, and field blanks where applicable. Method blanks are used to assess potential contamination arising from laboratory sample preparation and/or analytical procedures. Equipment blanks and field blanks are used to assess potential contamination arising from field procedures;
- data for laboratory control and laboratory control duplicate samples (LCS/LCSDs). The LCS/LCSDs are used to assess the accuracy of the analytical method using a clean matrix;
- data for matrix spike and matrix spike duplicate samples (MS/MSDs), when performed on project samples. The MS/MSDs are used to assess the accuracy and precision of the analytical method using a sample from the dataset;
- data for isotopically labeled surrogates. Isotopically labeled surrogates determine the sample matrix effect on the recoveries of the analytes;
- data for laboratory duplicates, when performed on project samples. The laboratory duplicates are used to assess the precision of the analytical method using a sample from the dataset;
- data for blind field duplicates. Field duplicate samples are used to assess variability introduced by the sampling and analytical processes; and
- overall usability of the data.

All data was determined to be usable for the purpose of this report. Data validation qualifiers assigned are listed in **Tables 2-5**.

5.2.2 Soil Results

Soil sample results are presented in **Table 2** and analytical results from equipment blank and field blank samples are presented in **Table 3**. Soil sample results are compared to NR 720 direct contact residual contaminant levels (RCLs) for the compounds for which they are established and

to calculated criteria for the protection of groundwater for the same compounds (**Table 2**). These compounds include perfluorooctanoic acid (PFOA), perfluorobutane sulfonic acid (PFBS), and perfluorooctane sulfonic acid (PFOS).

Numerical soil residual contaminant levels for protection of groundwater (GW-RCLs) were calculated using two methodologies: generic and site specific. Generic criteria were calculated for PFOA, PFBS, and PFOS using WDNR's guidance document PUB-RR-890 (WDNR, 2014) and the proposed NR 140 ESs for the respective PFAS. Site-specific GW-RCLs were calculated for PFOA and PFOS using GSI Environmental's *Risk-Based Corrective Action (RBCA) Tool Kit for Chemical Releases, version 2.6* (GSI Environmental, 2013). Site-specific criteria were not calculated for PFBS as it was not detected in the soil at the Site. Documentation for the site-specific calculations is provided in **Appendix E**. The RBCA Tool Kit models leaching from impacted soils in the unsaturated zone into groundwater directly below the Site. The site-specific modeling was used to calculate soil criteria separately for three soil source areas - the AFFF testing area, western swale, and storm sewer outlet – based on the soil concentrations that would result in exceedances of the proposed ESs at the property boundary. Chemical-specific parameters relevant to the modeling are provided in **Table E.1**. Site-specific model input parameters, including hydraulic conductivity estimated from hydraulic conductivity tests, are provided in **Table E.2**. The modeled site-specific GW-RCLs for PFOS and PFOA (**Table E.3**) were greater than the soil saturation limits, which are at least six orders of magnitude greater than the generic GW-RCLs. Given the large discrepancy between the generic and site-specific GW-RCLs for PFOS and PFOA, a narrative assumption has been made that the actual GW-RCL for PFOS and PFOA is above the generic and below the site-specific criteria.

The PFAS compounds detected in soil samples at the highest concentrations were 8:2 fluorotelomer sulfonic acid (8:2 FTS) and 6:2 fluorotelomer sulfonic acid (6:2 FTS). The highest concentrations of 8:2 FTS were detected in the AFFF testing area (130 J ug/kg in SS-03 [0-1]), and the highest concentration of 6:2 FTS was detected in the stormwater outlet area (11 ug/kg in SB-01 [0-2]). Other perfluorocarboxylic and perfluorosulfonic acids were detected in soil, including PFOA and PFOS. The highest concentration of PFOA was detected in a sample from the western swale (6.5 ug/kg in SB-06 [0-1.5]) and the highest concentration of PFOS was detected in the septic mound area (0.75 ug/kg in SB-10 [2-4]).

In general, the highest PFAS concentrations detected in soil were in the AFFF testing area, followed by the stormwater outlet and drainage channel areas, the septic mound area, and the stormwater inlet area. PFAS were also detected at lower concentrations in the swale along the western fence line. Soil results indicate PFAS concentrations <1 ug/kg north and east of the AFFF testing area (SS-02, SB-15, SB-14, SB-08, and SB-09), along the southern fence line (SB-07), and around the edges of the stormwater inlet area (SB-03 and SB-05).

Soil sample results indicate PFOA and/or PFOS detected at concentrations between the generic and site-specific protection of GW-RCLs and below the NR 720 direct contact RCLs in the AFFF testing area, the septic mound area, the western swale, and the stormwater outlet and wooded drainage channel areas.

Soil sample detections for 8:2 FTS, PFOA, and PFOS are shown on **Figure 8**. Detections of 8:2 FTS are included to serve as an indicator of AFFF-impacted soil as the source, AFC-3A, can contain high concentrations of 8:2 FTS. Further, 8:2 FTS has the potential to degrade to terminal product perfluorocarboxylic acids, including PFOA.

Most soil samples were collected from shallow depths representative of surficial impacts (approximately 0-2 ft bgs). The depth of PFAS impacts to soil is not constrained in several areas, including the AFFF testing area, where deeper samples were not able to be collected due to the presence of utilities. In the stormwater drainage channel area where samples were collected from 0-2 ft bgs and 2-4 ft bgs from several borings, PFAS were detected in both sample depth ranges at concentrations above the generic groundwater pathway criteria, but concentrations were generally lower in the 2-4 ft bgs interval. The depth of PFAS impacts in soil are considered to be constrained by the depth to bedrock, which is generally shallow at the Site, as discussed in **Section 5.1.1**.

5.2.3 Stormwater Results

Stormwater sample results for the approximate first flush sample (A) and later (B) sample are presented in **Table 4**. PFAS standards for stormwater are not established in Wisconsin at this time. In general, the same PFAS compounds detected in stormwater were detected in both samples, but PFAS concentrations were generally higher in the later (B) sample, even though the concentration of total suspended solids was higher in the earlier (A) sample. The PFAS compounds detected at the highest concentrations were 8:2 FTS (180 ng/L) and 6:2 FTS (44 ng/L), with other PFAS including PFOS and several perfluorocarboxylic acids detected at concentrations up to 25 ng/L. This distribution of PFAS is similar to the distribution observed in soil samples collected in the AFFF testing area.

5.2.4 Groundwater Results

Groundwater results are summarized and compared to the proposed NR 140 standards in **Table 5**. March/May 2021 results are presented in **Figures 9 and 11** and July 2021 results are presented in **Figures 10, 12, and 13**. The PFAS compounds detected at the highest concentrations were 8:2 FTS and 6:2 fluorotelomer sulfonic acid (6:2 FTS) and the perfluorocarboxylic acids C4-C8 [perfluorobutanoic acid (PFBA,) perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA), and PFOA]. The highest concentrations of PFAS were detected in the well in the AFFF testing area (MW-04) and the potable well, followed by the well in the northwest corner of the Site (MW-01) and the well on the eastern edge of the Site, southeast of the septic mound (MW-05), then the well along the western edge of the Site (MW-02). Packer interval sampling results from the on-site potable well indicate generally similar PFAS detections from 100 to approximately 200 ft bgs.

Wells in which PFAS concentrations exceeded the proposed NR 140 preventive action limits (PALs) or enforcement standards (ESs) include PW-01, MW-01, MW-02, MW-04, and MW-05. Select results for PFOA and perfluorononanoic acid (PFNA) exceeded the proposed NR 140 ESs, and select results for PFOA, PFNA, and PFOS exceeded the proposed NR 140 PALs. One or more PFAS compound was detected in MW-03, MW-06, MW-07, and PZ-01 at low concentrations (<10 ng/L) less than the proposed NR 140 PALs or ESs.

Figures 11 and 12 depict forensic pie charts in which the size of the pie chart is scaled to the concentration of PFAS detected in each monitoring well. The distribution of PFAS in the pie charts are indicative of a second generation AFFF source. Second generation AFFFs are characterized by high ratios of 8:2 and 6:2 FTS and distributions of perfluorinated carboxylic acids C4 – C9.

Figures 9 and 10 depict data for select PFAS compounds, including those that have exceeded the proposed NR 140 ESs or PALs (PFOA, PFNA, and PFOS) and indicator compounds for AFFF

impacts (8:2 FTS and 6:2 FTS). These indicator compounds are also sources of degradation to terminal products - perfluorocarboxylic acids C4 – C9. In every monitoring well where a PFAS compound was detected above the proposed ES, PFOA exceeded the ES by the highest ratio (detected concentration / ES). For this reason, PFOA is considered the PFAS of concern for delineation of PFAS in groundwater and PFOA isocontours are depicted on **Figures 9 and 10**.

PFOA results for soil and groundwater are shown on the cross-section **Figure 13**. Although the PFOA isocontours on **Figures 9 and 10** are shown as separate contours for three areas, it is possible that impacts in these areas may be overlapping or comingled.

Results for the deep production wells indicate only one PFAS detection in one well, at an estimated concentration less than the proposed NR 140 PAL. Results for the private well at 2304 Carpenter Swain Road indicate only one PFAS compound, PFBS, was detected at an estimated concentration less than the proposed NR 140 PAL.

5.3 Potential Groundwater Receptors

Potential off-Site impacts to water supply wells were evaluated within a 1,200 ft radius of the Site. The following properties were identified within this radius:

- The private residential well located at 2304 Carpenter Swain Road was identified as a potential groundwater receptor based on its downgradient location and proximity to the site (approximately 800 ft from the southeast corner of the Site). A groundwater sample was collected from this private well and sample results do not indicate impacts associated with the Site, as discussed in Section 5.2.4.
- A property with an apparent private residence is located approximately 1,100 ft southwest of the Site on Clear View Road. This property is not expected to be a potential receptor of groundwater impacts from the Site due to its side-gradient location relative to the Site.

5.4 Vapor

The investigated contaminants of concern do not pose a vapor pathway risk at Site due to the physical properties of the contaminants.

5.5 Emerging Contaminants

On August 17, 2020, the WDNR issued a letter to all Responsible Parties of open BRRTS sites as a reminder to include the evaluation of emerging contaminants PFAS and 1,4-dioxane in scoping site investigations. PFAS were evaluated as the primary focus of this site investigation.

1,4-Dioxane is a common concern at sites where certain chlorinated solvents (particularly 1,1,1-trichloroethane) have been released because of 1,4-dioxane's widespread use as a stabilizer for chlorinated solvents (USEPA, 2017). 1,4-Dioxane is not a component of or associated with AFFF and this investigation is solely concerned with a release of AFFF at the Site. Therefore, further investigation into 1,4-dioxane at the Site is not warranted.

6.0 Conclusions and Recommendations

6.1 Conclusions

PFAS have been detected in soil, stormwater, and groundwater samples collected as part of the site investigation. The highest PFAS concentrations detected in soil and groundwater are from samples collected in the AFFF testing area and the general distribution of PFAS is consistent with impacts from AFFF, although the distribution varies between individual sample locations and sample media.

Soil sample results indicate PFAS-impacted soil in the AFFF testing area, the septic mound area, the western swale, and the stormwater outlet and wooded drainage channel area. PFOA and/or PFOS have been detected in these areas at concentrations between the generic and site-specific groundwater pathway criteria and below the NR 720 direct contact RCLs. Infiltration pathways to groundwater and stormwater exist from PFAS-containing soil and WDNR has accepted an Interim Action Workplan to address soil at the Site.

Groundwater sample results indicate PFAS concentrations exceeding the proposed ES for PFOA and/or PFNA around the AFFF testing area, the storm sewer outlet area, and the septic system area. The downgradient extent of PFAS impacts in the AFFF testing area have been constrained at the water table by monitoring wells MW-06 and MW-03. PFAS results exceeding the proposed NR 140 standards have not been detected in the farm field south of the Site (MW-07), the deep production wells on Site, the piezometer (PZ-01), or the downgradient private well. Further investigation is needed to determine the degree and extent of the PFAS impacts to groundwater from the Site.

6.2 Recommendations

6.2.1 *Interim Actions*

As described in the July 2021 Interim Action Workplan, proposed interim actions include:

- Capping of specific areas of the Site:
 - Installation of an asphalt cap in the AFFF inspection testing area (adjacent to the Fire Suppression System).
 - Installation of a geosynthetic cap in the drainage swale west of the AFFF inspection testing area.
- Abandoning the current potable well or installing a point of entry treatment (POET) system on the potable well to reduce PFAS concentrations to below the Cycle 10 and 11 proposed ES.
- Removal of the current septic system, excavation and off-site disposal of impacted soil at the existing septic mound, and installation of a relocated septic mound.
- Natural attenuation of the northwestern portion of the Site and the storm sewer outlet area.
- Consideration for a future interim action for groundwater extraction and treatment or monitored natural attenuation as part of a remedial action options report (RAOR).

6.2.2 Supplemental Site Investigation

As described in the August 2021 Supplemental SIWP, up to nine multiport wells are proposed to be installed to further define the horizontal and vertical extent of PFAS in groundwater and to characterize groundwater flow direction and vertical gradient. Continued sampling of the existing well network, as scoped in the April 2021 SIWP, is also recommended. The findings of the supplemental investigation will be used to determine if additional investigation and/or remediation are needed.

7.0 References

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Table 1: Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Well	MW-01		MW-02		MW-03		MW-04		MW-05		MW-06		MW-07		PZ-01	
Top of Casing Elevation (ft amsl)	930.73		941.55		942.03		943.25		945.48		941.84		941.63		944.95	
Ground Surface Elevation (ft amsl)	928.28		938.88		939.53		940.77		942.92		939.40		939.14		942.57	
Top of Screen Elevation (ft amsl)	893.7		891.4		889.9		891.1		889.4		889.5		890.7		652.6	
Bottom of Screen Elevation (ft amsl)	878.7		881.4		874.9		876.1		874.4		874.5		875.7		642.6	
Screen Length (ft)	15		10		15		15		15		15		15		10	
Date	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
5/17/2021	44.88	885.85	56.77	884.78	57.92	884.11	58.45	884.80	60.95	884.53	57.44	884.40	57.45	884.18	--	--
5/27/2021	45.37	885.36	57.15	884.40	58.32	883.71	58.82	884.43	61.41	884.07	57.77	884.07	58.04	883.59	--	--
7/14/2021	44.98	885.75	56.83	884.72	58.04	883.99	58.52	884.73	60.98	884.50	57.67	884.17	58.30	883.33	99.97	844.98

Notes:
Elevations measurements are relative to NAVD 88 datum.
ft btoc = feet below top of casing
ft amsl = feet above mean sea level

Prepared by: L. Auner, 5/27/2021
Checked by: S. Sellwood, 5/27/2021
Updated by: W. Braga/L. Auner 7/21/21
Checked by: A. Enright 7/29/2021

Table 2: Soil Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Sample Point Type		NR 720		Groundwater		Soil Borings									
						Direct Contact RCLs ⁽¹⁾		Pathway Criteria		SB-01	SB-02	SB-03	SB-04	SB-05	SB-06
Sample Location ID						0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 1.5 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	
Sample Depth						04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	
Sample Depth						Gravel in Silty Clay, Silty Clay	Gravel in Silty Clay, Clayey Silt	Gravel in Silty Sand	Gravel in Silty Sand	Gravel in Silty Sand	Silt, Sandy Clay	Silt, Sandy Clay	Silt, Sandy Clay	Silt, Sandy Clay	
Soil Types (Generalized)						Site-Specific ⁽³⁾									
CAS RN	Constituent	Units	Non-Industrial	Industrial	Generic ⁽²⁾	Site-Specific ⁽³⁾	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-08	SB-09
Carboxylic Acids															
375-22-4	Perfluorobutanoic acid (PFBA)	ug/kg	-	-	-	-	0.39	0.23	< 0.027	< 0.028	< 0.029	0.38	0.13 J	0.14 J	0.23
2706-90-3	Perfluoropentanoic acid (PFPeA)	ug/kg	-	-	-	-	1.7	0.99	< 0.075	< 0.078	< 0.080	1.1	< 0.089	< 0.090	0.091 J
307-24-4	Perfluorohexanoic acid (PFHxA)	ug/kg	-	-	-	-	0.73	0.98	0.041 J	0.084 J	< 0.044	0.72	< 0.049	< 0.049	0.089 J
375-85-9	Perfluoroheptanoic acid (PFHpA)	ug/kg	-	-	-	-	0.92	0.71	0.046 J	0.054 J	0.043 J	2.2	0.034 J	< 0.034	0.067 J
335-67-1	Perfluorooctanoic acid (PFOA)	ug/kg	1,260	16,400	0.61	>710,000	1.3	2.6	0.10 J	0.14 J	< 0.090	6.5	< 0.10	< 0.10	< 0.096
375-95-1	Perfluorononanoic acid (PFNA)	ug/kg	-	-	-	-	0.64	0.49	< 0.035	0.037 J	< 0.038	6.3	0.043 J	< 0.042	< 0.040
335-76-2	Perfluorodecanoic acid (PFDA)	ug/kg	-	-	-	-	0.95	0.70	< 0.022	0.13 J	< 0.023	0.29	< 0.025	< 0.026	< 0.025
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ug/kg	-	-	-	-	0.84	0.23	< 0.035	0.040 J	< 0.038	< 0.040	< 0.042	< 0.042	< 0.040
307-55-1	Perfluorododecanoic acid (PFDoA)	ug/kg	-	-	-	-	0.86	0.53	< 0.066	< 0.068	< 0.070	< 0.075	< 0.078	< 0.078	< 0.075
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ug/kg	-	-	-	-	0.23	0.19 J	< 0.050	< 0.052	< 0.053	< 0.057	< 0.059	< 0.059	< 0.057
376-06-7	Perfluorotetradecanoic acid (PFTA)	ug/kg	-	-	-	-	0.30	0.29	< 0.053	< 0.055	< 0.056	< 0.060	< 0.063	< 0.063	< 0.061
Sulfonic Acids															
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ug/kg	1,260,000	16,400,000	130	-	< 0.028	< 0.027	< 0.024	< 0.025	< 0.026	< 0.028	< 0.029	< 0.029	< 0.028
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ug/kg	-	-	-	-	< 0.022	< 0.022	< 0.020	< 0.020	< 0.021	< 0.022	< 0.023	< 0.023	< 0.022
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ug/kg	-	-	-	-	< 0.034	< 0.034	< 0.030	< 0.031	< 0.032	< 0.035	< 0.036	< 0.036	< 0.035
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	-	-	-	-	< 0.039	< 0.038	< 0.034	< 0.035	< 0.037	< 0.039	< 0.041	< 0.041	< 0.039
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ug/kg	1,260	16,400	0.038	>170,000	< 0.22	< 0.22	< 0.20	< 0.20	< 0.21	0.23 J	< 0.23	< 0.23	< 0.22
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ug/kg	-	-	-	-	< 0.022	< 0.022	< 0.020	< 0.020	< 0.021	< 0.022	< 0.023	< 0.023	< 0.022
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ug/kg	-	-	-	-	< 0.043	< 0.043	< 0.038	< 0.039	< 0.041	< 0.044	< 0.045	< 0.045	< 0.044
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ug/kg	-	-	-	-	< 0.066	< 0.066	< 0.059	< 0.061	< 0.063	< 0.067	< 0.069	< 0.070	< 0.067
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ug/kg	-	-	-	-	< 0.41	< 0.41	< 0.36	< 0.37	< 0.39	< 0.41	< 0.43	< 0.43	< 0.41
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ug/kg	-	-	-	-	3.1	11	< 0.15	0.90 J	< 0.16	< 0.17	< 0.17	< 0.17	< 0.17
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ug/kg	-	-	-	-	26	45	< 0.24	30	< 0.26	0.30 J	< 0.29	< 0.29	< 0.28
Sulfonamides, Sulfonidoacetic acids, Sulfonamidoethanols															
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ug/kg	-	-	-	-	< 0.091	< 0.090	< 0.080	< 0.083	< 0.086	< 0.092	< 0.095	< 0.096	< 0.092
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ug/kg	-	-	-	-	< 0.045	< 0.045	< 0.040	< 0.041	< 0.043	< 0.046	< 0.047	< 0.048	< 0.046
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ug/kg	-	-	-	-	< 0.026	< 0.026	< 0.023	< 0.024	< 0.025	< 0.027	< 0.028	< 0.028	< 0.027
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ug/kg	-	-	-	-	< 0.43	< 0.43	< 0.38	< 0.39	< 0.41	< 0.44	< 0.45	< 0.45	< 0.44
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ug/kg	-	-	-	-	< 0.41	< 0.41	< 0.36	< 0.37	< 0.39	< 0.41	< 0.43	< 0.43	< 0.41
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ug/kg	-	-	-	-	< 0.078	< 0.078	< 0.069	< 0.072	< 0.074	< 0.079	< 0.082	< 0.083	< 0.080
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	-	-	-	-	< 0.040	< 0.040	< 0.035	< 0.036	< 0.038	< 0.040	< 0.042	< 0.042	< 0.040
Replacement Chemicals															
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ug/kg	-	-	-	-	< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.13	< 0.13	< 0.12
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ug/kg	-	-	-	-	< 0.020	< 0.020	< 0.018	< 0.018	< 0.019	< 0.020	< 0.021	< 0.021	< 0.020
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	-	-	-	-	< 0.030	< 0.030	< 0.026	< 0.027	< 0.028	< 0.030	< 0.031	< 0.031	< 0.030
763051-92-9	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	-	-	-	-	< 0.024	< 0.024	< 0.022	< 0.022	< 0.023	< 0.025	< 0.025	< 0.026	< 0.025

Notes:
CAS RN = Chemical Abstract Service Registry Number
ug/kg = micrograms per kilogram (ppb)
- = Value not established
J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.
J+ = Estimated concentration with a potential high bias
I = Value is EMPC (estimated maximum possible concentration).
Bold = Meets or exceeds NR 720 Industrial or Non-Industrial Direct Contact RCL
Italic = Meets or exceeds Protection of Groundwater Generic Screening Level
> = greater than soil saturation limit

Footnotes:
⁽¹⁾ NR 720 RCLs taken from WDNR RCL spreadsheet (December 2018 update), in which RCLs are calculated using default exposure assumptions listed in NR 720.12(3). RCLs are calculated using default exposure assumptions listed in NR 720.12(3).
⁽²⁾ Generic groundwater pathway criteria calculated using WDNR guidance document PUB-RR-890.
⁽³⁾ Site-specific groundwater pathway criteria calculated using GSI's RBCA Tool Kit for Chemical Releases, Version 2.6.

Table 2: Soil Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Sample Point Type		NR 720		Groundwater		Soil Borings									
						Direct Contact RCLs ⁽¹⁾		Pathway Criteria		SB-10	SB-10	SB-11	SB-12	SB-13	SB-13
Sample Location ID						2 - 4 ft	7.5 - 9.5 ft	2 - 4 ft	2 - 4 ft	2.25 - 4 ft	9 - 11 ft	0 - 4 ft	0 - 2 ft	0 - 2 ft	
Sample Depth						04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/21/2021	04/21/2021	
Sample Date															
Soil Types (Generalized)		Non-Industrial		Industrial		Generic ⁽²⁾		Site-Specific ⁽³⁾							
CAS RN	Constituent	Units													
Carboxylic Acids															
375-22-4	Perfluorobutanoic acid (PFBA)	ug/kg	-	-	-	-	0.17 J	< 0.029	0.80	0.52	0.13 J	0.034 J	< 0.028	< 0.029	< 0.030
2706-90-3	Perfluoropentanoic acid (PFPeA)	ug/kg	-	-	-	-	0.60	0.11 J	2.2	1.2	0.58	0.15 J	< 0.078	< 0.081	< 0.083
307-24-4	Perfluorohexanoic acid (PFHxA)	ug/kg	-	-	-	-	0.57	0.15 J	1.0	0.64	0.46	0.14 J	< 0.043	< 0.044	0.064 J
375-85-9	Perfluoroheptanoic acid (PFHpA)	ug/kg	-	-	-	-	1.1	0.34	1.0	0.40	0.25	0.085 J	< 0.029	< 0.030	0.044 J
335-67-1	Perfluorooctanoic acid (PFOA)	ug/kg	1,260	16,400	0.61	>710,000	4.0	1.7	1.0	0.17 J	0.52	0.29	< 0.087	< 0.090	0.099 J
375-95-1	Perfluorononanoic acid (PFNA)	ug/kg	-	-	-	-	1.4	0.95	0.065 J	< 0.043	0.35	0.18 J	< 0.037	0.040 J	0.042 J
335-76-2	Perfluorodecanoic acid (PFDA)	ug/kg	-	-	-	-	1.5	0.51	< 0.026	< 0.027	0.90	1.1	0.043 J	< 0.023	0.12 J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ug/kg	-	-	-	-	0.40	< 0.037	< 0.042	< 0.043	0.28	< 0.039	< 0.037	< 0.038	0.11 J
307-55-1	Perfluorododecanoic acid (PFDoA)	ug/kg	-	-	-	-	0.47	< 0.069	< 0.079	< 0.081	1.0	< 0.072	< 0.068	< 0.070	0.20 J
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ug/kg	-	-	-	-	0.058 J	< 0.052	< 0.060	< 0.061	0.12 J	< 0.055	< 0.052	< 0.053	0.081 J
376-06-7	Perfluorotetradecanoic acid (PFTA)	ug/kg	-	-	-	-	< 0.059	< 0.055	< 0.063	< 0.065	0.24	< 0.058	< 0.055	< 0.057	0.13 J
Sulfonic Acids															
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ug/kg	1,260,000	16,400,000	130	-	< 0.027	< 0.026	< 0.029	< 0.030	< 0.029	< 0.027	< 0.025	< 0.026	< 0.027
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ug/kg	-	-	-	-	< 0.022	< 0.021	< 0.023	< 0.024	< 0.023	< 0.021	< 0.020	< 0.021	< 0.021
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ug/kg	-	-	-	-	< 0.034	< 0.032	< 0.036	< 0.037	< 0.036	< 0.033	< 0.032	< 0.032	< 0.033
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	-	-	-	-	< 0.038	< 0.036	< 0.041	< 0.042	< 0.040	< 0.038	< 0.036	< 0.037	< 0.038
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ug/kg	1,260	16,400	0.038	>170,000	0.75	0.28 J	< 0.23	< 0.24	< 0.23	< 0.21	< 0.20	< 0.21	< 0.21
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ug/kg	-	-	-	-	< 0.022	< 0.021	< 0.023	< 0.024	< 0.023	< 0.021	< 0.020	< 0.021	< 0.021
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ug/kg	-	-	-	-	0.12 J	< 0.040	< 0.046	< 0.047	0.18 J	< 0.042	< 0.040	< 0.041	< 0.042
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ug/kg	-	-	-	-	< 0.065	< 0.062	< 0.070	< 0.072	< 0.069	< 0.064	< 0.061	< 0.063	< 0.064
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ug/kg	-	-	-	-	< 0.40	< 0.38	< 0.43	< 0.45	< 0.43	< 0.40	< 0.38	< 0.39	< 0.40
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ug/kg	-	-	-	-	6.5	2.5	< 0.18	< 0.18	2.2 J	0.70 J	< 0.15	< 0.16	0.30 J
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ug/kg	-	-	-	-	44	28	< 0.29	< 0.30	3.0	17	< 0.25	< 0.26	5.0
Sulfonamides, Sulfonidoacetic acids, Sulfonamidoethanols															
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ug/kg	-	-	-	-	< 0.089	< 0.084	< 0.096	< 0.099	< 0.095	< 0.088	< 0.083	< 0.086	< 0.088
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ug/kg	-	-	-	-	< 0.044	< 0.042	< 0.048	< 0.049	< 0.047	< 0.044	< 0.042	< 0.043	< 0.044
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ug/kg	-	-	-	-	< 0.026	< 0.025	< 0.028	< 0.029	< 0.028	< 0.026	< 0.024	< 0.025	< 0.026
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ug/kg	-	-	-	-	< 0.42	< 0.40	< 0.46	< 0.47	< 0.45	< 0.42	< 0.40	< 0.41	< 0.42
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ug/kg	-	-	-	-	< 0.40	< 0.38	< 0.43	< 0.45	< 0.43	< 0.40	< 0.38	< 0.39	< 0.40
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ug/kg	-	-	-	-	< 0.077	< 0.073	< 0.083	< 0.086	< 0.082	< 0.076	< 0.072	< 0.074	< 0.076
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	-	-	-	-	< 0.039	< 0.037	< 0.042	< 0.043	< 0.042	< 0.039	< 0.037	< 0.038	< 0.039
Replacement Chemicals															
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ug/kg	-	-	-	-	< 0.12	< 0.11	< 0.13	< 0.13	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ug/kg	-	-	-	-	< 0.020	< 0.018	< 0.021	< 0.022	< 0.021	< 0.019	< 0.018	< 0.019	< 0.019
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	-	-	-	-	< 0.029	< 0.028	< 0.032	< 0.033	< 0.031	< 0.029	< 0.027	< 0.028	< 0.029
763051-92-9	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	-	-	-	-	< 0.024	< 0.023	< 0.026	< 0.027	< 0.025	< 0.024	< 0.022	< 0.023	< 0.024

Notes:

CAS RN = Chemical Abstract Service Registry Number

ug/kg = micrograms per kilogram (ppb)

- = Value not established

J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.

J+ = Estimated concentration with a potential high bias

I = Value is EMPC (estimated maximum possible concentration).

Bold = Meets or exceeds NR 720 Industrial or Non-Industrial Direct Contact RCL

Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

> = greater than soil saturation limit

Footnotes:

⁽¹⁾ NR 720 RCLs taken from WDNR RCL spreadsheet (December 2018 update), in which RCLs are calculated using default exposure assumptions listed in NR 720.12(3). RCLs are calculated using default exposure assumptions listed in NR 720.12(3).

⁽²⁾ Generic groundwater pathway criteria calculated using WDNR guidance document PUB-RR-890.

⁽³⁾ Site-specific groundwater pathway criteria calculated using GSI's RBCA Tool Kit for Chemical Releases, Version 2.6.

Table 2: Soil Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Sample Point Type		NR 720 Direct Contact RCLs ⁽¹⁾		Groundwater Pathway Criteria		Soil Borings									
						SB-17	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-23	SB-24	
Sample Location ID						0 - 1.5 ft	0 - 1 ft	0 - 1.75 ft	0 - 2 ft	0 - 0.9 ft	0 - 2 ft	0 - 2 ft	2 - 3.75 ft	0 - 2 ft	
Sample Depth						05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	
Sample Date															
Soil Types (Generalized)						Clay	Clay	Silt	Silt, Clay	Clay	Silt, Clay	Clay	Clay, Sandy Clay	Clay	
CAS RN	Constituent	Units	Non-Industrial	Industrial	Generic ⁽²⁾	Site-Specific ⁽³⁾									
Carboxylic Acids															
375-22-4	Perfluorobutanoic acid (PFBA)	ug/kg	-	-	-	-	0.34	0.38	0.20 J	0.16 J	0.15 J	0.21	0.82	0.30	1.6
2706-90-3	Perfluoropentanoic acid (PFPeA)	ug/kg	-	-	-	-	0.63	0.83	0.23	< 0.089	0.17 J	0.24	2.6	1.2	3.4
307-24-4	Perfluorohexanoic acid (PFHxA)	ug/kg	-	-	-	-	0.36	0.51	0.19 J	0.066 J	0.17 J	0.19 J	0.68	0.33	1.1
375-85-9	Perfluoroheptanoic acid (PFHpA)	ug/kg	-	-	-	-	0.59	0.93	0.24	0.075 J	0.20 J	0.27	1.3	0.50	1.2
335-67-1	Perfluorooctanoic acid (PFOA)	ug/kg	1,260	16,400	0.61	>710,000	1.2	2.8	0.36	0.11 J	0.30	0.40	1.4	0.66	3.3
375-95-1	Perfluorononanoic acid (PFNA)	ug/kg	-	-	-	-	0.83	4.1	0.19 J	0.072 J	0.15 J	0.33	0.89	0.48	0.86
335-76-2	Perfluorodecanoic acid (PFDA)	ug/kg	-	-	-	-	0.051 J	0.58	0.039 J	< 0.025	< 0.027	0.043 J	0.44	0.17 J	0.14 J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ug/kg	-	-	-	-	< 0.043	0.15 J	< 0.038	< 0.041	< 0.044	< 0.037	0.18 J	< 0.042	0.059 J
307-55-1	Perfluorododecanoic acid (PFDoA)	ug/kg	-	-	-	-	< 0.080	< 0.077	< 0.072	< 0.077	< 0.082	< 0.068	0.11 J	< 0.078	< 0.080
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ug/kg	-	-	-	-	< 0.061	< 0.059	< 0.055	< 0.059	< 0.062	< 0.052	< 0.062	< 0.059	< 0.061
376-06-7	Perfluorotetradecanoic acid (PFTA)	ug/kg	-	-	-	-	< 0.064	< 0.062	< 0.058	< 0.062	< 0.066	< 0.055	< 0.066	< 0.063	< 0.065
Sulfonic Acids															
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ug/kg	1,260,000	16,400,000	130	-	< 0.030	< 0.029	< 0.027	< 0.029	< 0.031	< 0.026	< 0.031	< 0.029	< 0.030
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ug/kg	-	-	-	-	< 0.024	< 0.023	< 0.021	< 0.023	< 0.024	< 0.020	< 0.024	< 0.023	< 0.024
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ug/kg	-	-	-	-	< 0.037	< 0.036	< 0.033	< 0.036	< 0.038	< 0.032	< 0.038	< 0.036	< 0.037
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	-	-	-	-	< 0.042	< 0.040	< 0.037	< 0.040	< 0.043	< 0.036	< 0.043	< 0.041	< 0.042
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ug/kg	1,260	16,400	0.038	>170,000	< 0.24	< 0.23	< 0.21	< 0.23	< 0.24	< 0.20	< 0.24	< 0.23	< 0.24
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ug/kg	-	-	-	-	< 0.024	< 0.023	< 0.021	< 0.023	< 0.024	< 0.020	< 0.024	< 0.023	< 0.024
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ug/kg	-	-	-	-	< 0.047	< 0.045	< 0.042	< 0.045	< 0.048	< 0.040	< 0.048	< 0.045	< 0.047
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ug/kg	-	-	-	-	< 0.072	< 0.069	< 0.064	< 0.069	< 0.073	< 0.061	< 0.073	< 0.070	< 0.072
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ug/kg	-	-	-	-	< 0.44	< 0.43	< 0.40	< 0.43	< 0.45	< 0.38	< 0.45	< 0.43	< 0.44
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ug/kg	-	-	-	-	< 0.18	0.17 J	< 0.16	< 0.17	< 0.18	< 0.15	1.5 J	0.29 J	< 0.18
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ug/kg	-	-	-	-	0.69 J	7.1	< 0.27	< 0.29	< 0.31	< 0.26	14	1.2 J	2.0 J
Sulfonamides, Sulfonidoacetic acids, Sulfonamidoethanols															
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ug/kg	-	-	-	-	< 0.098	< 0.094	< 0.088	< 0.094	< 0.10	< 0.084	< 0.10	< 0.095	< 0.098
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ug/kg	-	-	-	-	< 0.049	< 0.047	< 0.044	< 0.047	< 0.050	< 0.042	< 0.050	< 0.048	< 0.049
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ug/kg	-	-	-	-	< 0.029	< 0.028	< 0.026	< 0.028	< 0.029	< 0.025	< 0.029	< 0.028	< 0.029
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ug/kg	-	-	-	-	< 0.47	< 0.45	< 0.42	< 0.45	< 0.48	< 0.40	< 0.48	< 0.45	< 0.47
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ug/kg	-	-	-	-	< 0.44	< 0.43	< 0.40	< 0.43	< 0.45	< 0.38	< 0.45	< 0.43	< 0.44
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ug/kg	-	-	-	-	< 0.085	< 0.082	< 0.076	< 0.082	< 0.087	< 0.073	< 0.087	< 0.083	< 0.085
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	-	-	-	-	< 0.043	< 0.041	< 0.038	< 0.041	< 0.044	< 0.037	< 0.044	< 0.042	< 0.043
Replacement Chemicals															
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ug/kg	-	-	-	-	< 0.13	< 0.13	< 0.12	< 0.13	< 0.13	< 0.11	< 0.13	< 0.13	< 0.13
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ug/kg	-	-	-	-	< 0.021	< 0.021	< 0.019	< 0.021	< 0.022	< 0.018	< 0.022	< 0.021	< 0.022
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	-	-	-	-	< 0.032	< 0.031	< 0.029	< 0.031	< 0.033	< 0.028	< 0.033	< 0.031	< 0.032
763051-92-9	11-Chloroicosadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	-	-	-	-	< 0.026	< 0.025	< 0.024	< 0.025	< 0.027	< 0.022	< 0.027	< 0.026	< 0.026

Notes:

CAS RN = Chemical Abstract Service Registry Number

ug/kg = micrograms per kilogram (ppb)

- = Value not established

J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.

J+ = Estimated concentration with a potential high bias

I = Value is EMPC (estimated maximum possible concentration).

Bold = Meets or exceeds NR 720 Industrial or Non-Industrial Direct Contact RCL

Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

> = greater than soil saturation limit

Footnotes:

⁽¹⁾ NR 720 RCLs taken from WDNR RCL spreadsheet (December 2018 update), in which RCLs are calculated using default exposure assumptions listed in NR 720.12(3). RCLs are calculated using default exposure assumptions listed in NR 720.12(3).

⁽²⁾ Generic groundwater pathway criteria calculated using WDNR guidance document PUB-RR-890.

⁽³⁾ Site-specific groundwater pathway criteria calculated using GSI's RBCA Tool Kit for Chemical Releases, Version 2.6.

Table 2: Soil Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Sample Point Type		NR 720 Direct Contact RCLs ⁽¹⁾		Groundwater Pathway Criteria		Soil Borings				Surficial Soil Samples				
						SB-24	SB-25	SB-25	SB-26	SS-01	SS-02	SS-03	SS-04	
Sample Location ID						2 - 4 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	
Sample Depth						05/10/2021	05/11/2021	05/11/2021	05/11/2021	04/21/2021	04/21/2021	04/21/2021	05/11/2021	
Sample Date														
Soil Types (Generalized)						Clay	Clay	Clay, Sandy Clay, Sand	Clay	Silty Gravel	Silty Gravel	Silty Gravel	Clay	
CAS RN	Constituent	Units	Non-Industrial	Industrial	Generic ⁽²⁾	Site-Specific ⁽³⁾								
Carboxylic Acids														
375-22-4	Perfluorobutanoic acid (PFBA)	ug/kg	-	-	-	-	0.33	1.5	0.76	1.1	< 0.027	< 0.029	0.048 J	1.5
2706-90-3	Perfluoropentanoic acid (PFPeA)	ug/kg	-	-	-	-	1.4	2.7	1.7	2.5	0.16 J	< 0.079	0.12 J	2.7
307-24-4	Perfluorohexanoic acid (PFHxA)	ug/kg	-	-	-	-	0.35	1.0	0.61	0.80	0.23	< 0.043	0.32 J	1.3
375-85-9	Perfluoroheptanoic acid (PFHpA)	ug/kg	-	-	-	-	0.55	1.3	0.68	1.8	0.30	< 0.030	0.099 J	3.4
335-67-1	Perfluorooctanoic acid (PFOA)	ug/kg	1,260	16,400	0.61	>710,000	0.73	3.6	1.3 J+	2.7	0.65	< 0.088	0.49 J	4.8
375-95-1	Perfluorononanoic acid (PFNA)	ug/kg	-	-	-	-	0.48	1.8	0.38	3.0	0.13 J	< 0.037	0.13 J	3.6
335-76-2	Perfluorodecanoic acid (PFDA)	ug/kg	-	-	-	-	0.20 J	0.30	0.040 J	1.2	0.22	< 0.022	0.60 J	2.1
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ug/kg	-	-	-	-	< 0.044	0.12 J	< 0.040	0.64	< 0.035	< 0.037	0.31 J	1.7
307-55-1	Perfluorododecanoic acid (PFDoA)	ug/kg	-	-	-	-	< 0.081	< 0.072	< 0.074	0.17 J	< 0.065	< 0.068	0.22 J	0.87
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ug/kg	-	-	-	-	< 0.062	< 0.055	< 0.057	< 0.063	< 0.050	< 0.052	< 0.052	0.19 J
376-06-7	Perfluorotetradecanoic acid (PFTA)	ug/kg	-	-	-	-	< 0.066	< 0.058	< 0.060	< 0.067	< 0.052	< 0.055	0.12 J	0.15 J
Sulfonic Acids														
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ug/kg	1,260,000	16,400,000	130	-	< 0.030	< 0.027	< 0.028	< 0.031	< 0.024	< 0.026	< 0.025	< 0.033
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ug/kg	-	-	-	-	< 0.024	< 0.022	< 0.022	< 0.025	< 0.019	< 0.020	< 0.020	< 0.027
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ug/kg	-	-	-	-	< 0.038	< 0.033	< 0.034	< 0.038	< 0.030	< 0.032	< 0.032	< 0.041
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ug/kg	-	-	-	-	< 0.043	< 0.038	< 0.039	< 0.043	< 0.034	< 0.036	< 0.036	< 0.047
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ug/kg	1,260	16,400	0.038	>170,000	< 0.24	0.25 J	< 0.22	0.48 JI	< 0.19	< 0.20	< 0.20	0.42 JI
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ug/kg	-	-	-	-	< 0.024	< 0.022	< 0.022	< 0.025	< 0.019	< 0.020	< 0.020	< 0.027
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ug/kg	-	-	-	-	< 0.047	< 0.042	< 0.043	< 0.048	< 0.038	< 0.040	< 0.040	< 0.052
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ug/kg	-	-	-	-	< 0.073	< 0.065	< 0.067	< 0.074	< 0.058	< 0.061	< 0.061	< 0.080
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ug/kg	-	-	-	-	< 0.45	< 0.40	< 0.41	< 0.46	< 0.36	< 0.38	< 0.38	< 0.49
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ug/kg	-	-	-	-	0.30 J	0.28 J	< 0.17	1.4 J	5.5	< 0.15	7.2 J	0.38 J
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ug/kg	-	-	-	-	1.1 J	4.4	< 0.28	22	74	< 0.26	130 J	5.3
Sulfonamides, Sulfonidoacetic acids, Sulfonamidoethanols														
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ug/kg	-	-	-	-	< 0.10	< 0.088	< 0.091	< 0.10	< 0.080	< 0.084	< 0.083	< 0.11
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ug/kg	-	-	-	-	< 0.050	< 0.044	< 0.046	< 0.051	< 0.040	< 0.042	< 0.042	< 0.055
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ug/kg	-	-	-	-	< 0.029	< 0.026	< 0.027	< 0.030	< 0.023	< 0.024	< 0.024	< 0.032
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ug/kg	-	-	-	-	< 0.47	< 0.42	< 0.43	< 0.48	< 0.38	< 0.40	< 0.40	< 0.52
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ug/kg	-	-	-	-	< 0.45	< 0.40	< 0.41	< 0.46	< 0.36	< 0.38	< 0.38	< 0.49
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ug/kg	-	-	-	-	< 0.086	< 0.077	< 0.079	< 0.088	< 0.069	< 0.072	< 0.072	< 0.095
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ug/kg	-	-	-	-	< 0.044	< 0.039	< 0.040	< 0.045	< 0.035	< 0.037	< 0.037	< 0.048
Replacement Chemicals														
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ug/kg	-	-	-	-	< 0.13	< 0.12	< 0.12	< 0.14	< 0.11	< 0.11	< 0.11	< 0.15
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ug/kg	-	-	-	-	< 0.022	< 0.019	< 0.020	< 0.022	< 0.017	< 0.018	< 0.018	< 0.024
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ug/kg	-	-	-	-	< 0.033	< 0.029	< 0.030	< 0.033	< 0.026	< 0.028	< 0.027	< 0.036
763051-92-9	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ug/kg	-	-	-	-	< 0.027	< 0.024	< 0.024	< 0.027	< 0.021	< 0.022	< 0.022	< 0.029

Notes:
CAS RN = Chemical Abstract Service Registry Number
ug/kg = micrograms per kilogram (ppb)
- = Value not established
J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.
J+ = Estimated concentration with a potential high bias
I = Value is EMPC (estimated maximum possible concentration).
Bold = Meets or exceeds NR 720 Industrial or Non-Industrial Direct Contact RCL
Italic = Meets or exceeds Protection of Groundwater Generic Screening Level
> = greater than soil saturation limit

Prepared by: P. Popp, 7/14/2021
Checked and revised by: L. Auner, 7/15/2021
Checked by: J. Ramey, 7/16/2021
Revised by: L. Auner, 8/4/2021
Checked by: T. Tabbert, 8/5/2021

Footnotes:
⁽¹⁾ NR 720 RCLs taken from WDNR RCL spreadsheet (December 2018 update), in which RCLs are calculated using default exposure assumptions listed in NR 720.12(3). RCLs are calculated using default exposure assumptions listed in NR 720.12(3).
⁽²⁾ Generic groundwater pathway criteria calculated using WDNR guidance document PUB-RR-890.
⁽³⁾ Site-specific groundwater pathway criteria calculated using GSI's RBCA Tool Kit for Chemical Releases, Version 2.6.

Table 3: Blank Sample Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRS #02-13-587341

		Sample Type	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
		Sample ID	EB-01-202104	EB-02-202104	EB-03-202104	EB-04-202104	EB-05-202104	EB-06-202105	EB-07-202105	EB-08-202105
		Sample Date	04/20/2021	04/20/2021	04/21/2021	04/21/2021	04/21/2021	05/11/2021	05/11/2021	05/19/2021
CAS RN	Constituent	Units								
Carboxylic Acids										
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	< 2.1	< 2.1	< 2.2	< 2.1	< 2.2	< 2.1	< 2.3	< 2.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	ng/L	< 0.42	< 0.43	< 0.46	< 0.43	< 0.45	< 0.42	< 0.46	< 0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	ng/L	< 0.50	< 0.50	0.61 J	< 0.51	< 0.54	< 0.50	< 0.54	< 0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/L	< 0.21	< 0.22	< 0.23	< 0.22	< 0.23	< 0.22	< 0.23	< 0.22
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	< 0.73	< 0.74	< 0.79	< 0.74	0.81 J	< 0.74	< 0.80	< 0.76
375-95-1	Perfluorononanoic acid (PFNA)	ng/L	< 0.23	< 0.23	< 0.25	< 0.24	< 0.25	< 0.23	< 0.25	< 0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ng/L	< 0.27	< 0.27	< 0.29	< 0.27	< 0.29	< 0.27	< 0.29	< 0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ng/L	< 0.95	< 0.96	< 1.0	< 0.96	< 1.0	< 0.95	< 1.0	< 0.98
307-55-1	Perfluorododecanoic acid (PFDoA)	ng/L	< 0.47	< 0.48	< 0.51	< 0.48	< 0.51	< 0.48	< 0.52	< 0.49
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ng/L	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2
376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/L	< 0.63	< 0.63	< 0.68	< 0.64	< 0.68	< 0.63	< 0.69	< 0.65
Sulfonic Acids										
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ng/L	< 0.17	< 0.17	< 0.19	< 0.17	< 0.18	< 0.17	< 0.19	< 0.18
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ng/L	< 0.26	< 0.26	< 0.28	< 0.26	< 0.28	< 0.26	< 0.28	< 0.27
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ng/L	< 0.49	< 0.50	< 0.53	< 0.50	< 0.53	< 0.49	< 0.54	< 0.51
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	< 0.16	< 0.17	< 0.18	< 0.17	< 0.18	< 0.16	< 0.18	< 0.17
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ng/L	< 0.46	< 0.47	< 0.50	5.3	< 0.50	< 0.47	< 0.51	< 0.48
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ng/L	< 0.32	< 0.32	< 0.35	< 0.32	< 0.34	< 0.32	< 0.35	< 0.33
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ng/L	< 0.28	< 0.28	< 0.30	< 0.28	< 0.30	< 0.28	< 0.30	< 0.29
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ng/L	< 0.83	< 0.84	< 0.90	< 0.85	< 0.90	< 0.84	< 0.91	< 0.87
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22	< 0.21	< 0.23	< 0.21
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	< 2.1	< 2.2	< 2.3	< 2.2	< 2.3	< 2.2	< 2.3	< 2.2
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	< 0.40	< 0.40	< 0.43	< 0.40	< 0.43	< 0.40	< 0.43	< 0.41
Sulfonamides, Sulfonamidoacetic acids, Sulfonamidoethanols										
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ng/L	< 0.84	< 0.85	< 0.91	< 0.86	< 0.91	< 0.85	< 0.92	< 0.87
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	< 0.37	< 0.37	< 0.40	< 0.38	< 0.40	< 0.37	< 0.40	< 0.38
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	< 0.75	< 0.76	< 0.81	< 0.76	< 0.80	< 0.75	< 0.82	< 0.78
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	< 1.0	< 1.0	< 1.1	< 1.0	< 1.1	< 1.0	< 1.1	< 1.1
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	< 0.73	< 0.74	< 0.79	< 0.74	< 0.79	< 0.74	< 0.80	< 0.76
Replacement Chemicals										
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	< 0.34	< 0.35	< 0.37	< 0.35	< 0.37	< 0.35	< 0.38	< 0.36
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ng/L	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22	< 0.21	< 0.23	< 0.21
763051-92-9	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ng/L	< 0.28	< 0.28	< 0.30	< 0.28	< 0.30	< 0.28	< 0.30	< 0.29

Notes:
CAS RN = Chemical Abstract Service Registry Number
ng/L = nanograms per liter (ppt)
J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.

Table 3: Blank Sample Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRS #02-13-587341

		Sample Type	EQ_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK
		Sample ID	EB-01-20210716	FB-01-202104	FB-02-202104	FB-03-202105	FB-04-20210629	FB-05-20210701	FB-01-20210716	FB-20210721
		Sample Date	07/16/2021	04/21/2021	04/22/2021	05/19/2021	06/29/2021	07/01/2021	07/16/2021	07/21/2021
CAS RN	Constituent	Units								
Carboxylic Acids										
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	< 2.1	< 2.1	< 2.1	< 2.2	< 2.1	< 2.0	< 2.5	< 2.5
2706-90-3	Perfluoropentanoic acid (PFPeA)	ng/L	< 0.42	< 0.43	< 0.44	< 0.44	< 0.43	< 0.41	< 0.50	< 0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	ng/L	< 0.50	< 0.51	< 0.52	< 0.53	0.52 J	< 0.48	< 0.59	< 0.59
375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/L	< 0.21	< 0.22	< 0.22	< 0.23	< 0.22	< 0.21	< 0.26	< 0.26
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	< 0.73	< 0.75	< 0.76	< 0.77	< 0.74	< 0.71	< 0.87	< 0.87
375-95-1	Perfluorononanoic acid (PFNA)	ng/L	< 0.23	< 0.24	< 0.24	< 0.25	< 0.24	< 0.22	< 0.28	< 0.28
335-76-2	Perfluorodecanoic acid (PFDA)	ng/L	< 0.27	< 0.27	< 0.28	< 0.28	< 0.27	< 0.26	< 0.32	< 0.32
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ng/L	< 0.94	< 0.97	< 0.99	< 1.0	< 0.96	< 0.92	< 1.1	< 1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ng/L	< 0.47	< 0.49	< 0.49	< 0.50	< 0.48	< 0.46	< 0.56	< 0.56
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ng/L	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.3	< 1.3
376-06-7	Perfluorotetradecanoic acid (PFTTA)	ng/L	< 0.63	< 0.64	< 0.65	< 0.66	< 0.64	< 0.61	< 0.75	< 0.75
Sulfonic Acids										
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ng/L	< 0.17	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.20	< 0.20
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ng/L	< 0.26	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.31	< 0.31
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ng/L	< 0.49	< 0.50	< 0.51	< 0.52	< 0.50	< 0.47	< 0.58	< 0.58
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	< 0.16	< 0.17	< 0.17	< 0.17	< 0.17	< 0.16	< 0.19	< 0.19
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ng/L	< 0.46	< 0.48	< 0.48	< 0.49	< 0.47	< 0.45	< 0.55	< 0.55
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ng/L	< 0.32	< 0.33	< 0.33	< 0.34	< 0.32	< 0.31	< 0.38	< 0.38
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ng/L	< 0.27	< 0.28	< 0.29	< 0.29	< 0.28	< 0.27	< 0.33	< 0.33
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ng/L	< 0.83	< 0.86	< 0.87	< 0.88	< 0.85	< 0.81	< 0.99	< 0.99
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	< 0.21	< 0.21	< 0.21	< 0.22	< 0.21	< 0.20	< 0.25	< 0.25
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	< 2.1	< 2.2	< 2.2	< 2.3	< 2.2	< 2.1	< 2.6	< 2.6
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	< 0.40	< 0.41	< 0.41	< 0.42	< 0.40	< 0.38	< 0.47	< 0.47
Sulfonamides, Sulfonamidoacetic acids, Sulfonamidoethanols										
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ng/L	< 0.84	< 0.87	< 0.88	< 0.89	< 0.85	< 0.82	< 1.0	< 1.0
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	< 0.37	< 0.38	< 0.39	< 0.39	< 0.38	< 0.36	< 0.44	< 0.44
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	< 0.75	< 0.77	< 0.78	< 0.79	< 0.76	< 0.72	< 0.89	< 0.89
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	< 1.0	< 1.1	< 1.1	< 1.1	< 1.0	< 1.0	< 1.2	< 1.2
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.3	< 1.3
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	< 1.2	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.4	< 1.4
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	< 0.73	< 0.75	< 0.76	< 0.77	< 0.74	< 0.71	< 0.87	< 0.87
Replacement Chemicals										
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.2	< 1.5	< 1.5
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	< 0.34	< 0.35	< 0.36	< 0.36	< 0.35	< 0.33	< 0.41	< 0.41
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ng/L	< 0.21	< 0.21	< 0.21	< 0.22	< 0.21	< 0.20	< 0.25	< 0.25
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ng/L	< 0.27	< 0.28	< 0.29	< 0.29	< 0.28	< 0.27	< 0.33	< 0.33

Notes:
CAS RN = Chemical Abstract Service Registry Number
ng/L = nanograms per liter (ppt)
J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.

Prepared by: P. Popp, 7/15/2021
Checked and revised by: L. Auner, 7/15/2021
Checked by: J. Ramey 7/16/2021
Updated by: L. Auner, 7/29/2021
Checked by: A. Enright 7/29/2021

**Table 4: Stormwater Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341**

		Sample Location/Type	SW-01-A	SW-01-A Dup	SW-01-B
		Sample Date and Time	6/29/2021 10:35	6/29/2021 10:35	6/29/2021 12:15
CAS RN	Constituent	Units			
Carboxylic Acids					
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	< 2.0	< 2.0	6.4
2706-90-3	Perfluoropentanoic acid (PFPeA)	ng/L	2	2	25
307-24-4	Perfluorohexanoic acid (PFHxA)	ng/L	4.3	4.1	19
375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/L	1.6 J	1.4 J	18
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	6.1	5.8	23
375-95-1	Perfluorononanoic acid (PFNA)	ng/L	2.2	2.3	5.3
335-76-2	Perfluorodecanoic acid (PFDA)	ng/L	2.7	2.6	3.5
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ng/L	< 0.92	< 0.90	< 1.0
307-55-1	Perfluorododecanoic acid (PFDoA)	ng/L	0.86 J	0.93 J	0.93 J
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ng/L	< 1.1	< 1.1	< 1.2
376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/L	< 0.61	< 0.60	< 0.66
Sulfonic Acids					
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ng/L	< 0.17	< 0.16	< 0.18
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ng/L	< 0.25	< 0.25	< 0.27
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ng/L	< 0.48	< 0.47	< 0.52
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	< 0.16	< 0.16	< 0.17
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ng/L	1.5 J	1.2 J	1.5 J
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ng/L	< 0.31	< 0.30	< 0.34
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ng/L	< 0.27	< 0.26	< 0.29
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ng/L	< 0.81	< 0.79	< 0.88
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	< 0.20	< 0.20	< 0.22
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	16	16	44
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	130	140	180
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols					
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ng/L	< 0.82	< 0.80	< 0.89
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	< 0.36	< 0.35	< 0.39
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	< 0.73	< 0.71	< 0.79
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	< 1.0	< 0.98	< 1.1
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	< 1.1	< 1.1	< 1.2
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	< 1.2	< 1.1	< 1.3
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	< 0.71	< 0.70	< 0.77

**Table 4: Stormwater Analytical Results
 RockGen Energy Center
 Town of Christiana, Dane County, Wisconsin
 TRC Project # 437865.0000.0000, BRRTS #02-13-587341**

		Sample Location/Type	SW-01-A	SW-01-A Dup	SW-01-B
		Sample Date and Time	6/29/2021 10:35	6/29/2021 10:35	6/29/2021 12:15
CAS RN	Constituent	Units			
Replacement Chemicals					
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	< 1.3	< 1.2	< 1.4
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	< 0.33	< 0.33	< 0.36
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ng/L	< 0.20	< 0.20	< 0.22
763051-92-9	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ng/L	< 0.27	< 0.26	< 0.29
Solids					
TSS	Total Suspended Solids (TSS)	mg/L	120	--	11

Notes:

CAS RN = Chemical Abstract Service Registry Number

ng/L = nanograms per liter (ppt)

-- = Not analyzed

J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.

Prepared by: P. Popp, 7/14/2021

Checked and revised by: L. Auner, 7/15/2021

Checked by: J. Ramey 7/16/2021

Table 5: Groundwater Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Well Type					On-Site Potable Well									
Sample Location ID					Raw Tap	Kitchen Tap	Filter Tap	Fridge Tap	PW-01	PW-01	PW-01	PW-01	PW-01	PW-01
Sample Depth					03/10/2021	03/10/2021	03/10/2021	03/10/2021	100 - 117 ft	116.25 - 137.25 ft	136.75 - 157.75 ft	157.5 - 178.5 ft	175.25 - 196.25 ft	PW-01
Sample Date					03/10/2021	03/10/2021	03/10/2021	03/10/2021	04/22/2021	04/22/2021	04/22/2021	04/22/2021	04/22/2021	07/16/2021
CAS RN	Constituent	Units	Proposed NR 140 PAL ⁽¹⁾	Proposed NR 140 ES ⁽¹⁾										
Carboxylic Acids														
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	2,000	10,000	120	120	4.0	2.1 J	77	88	56	73	82	110
2706-90-3	Perfluoropentanoic acid (PFPeA)	ng/L	-	-	500	490	< 0.96	< 0.93	300	360	230	290	280	480
307-24-4	Perfluorohexanoic acid (PFHxA)	ng/L	30,000	150,000	340	350	< 0.96	< 0.93	210	240	150	190	210	260
375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/L	-	-	190	200	< 0.96	< 0.93	100	110	63	99	97	140
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	210	200	< 0.96	< 0.93	100	130	62	100	100	170
375-95-1	Perfluorononanoic acid (PFNA)	ng/L	3	30	23	24	< 0.96	< 0.93	10	11	5	9.2	8.9	17
335-76-2	Perfluorodecanoic acid (PFDA)	ng/L	60	300	5.6	5.6	< 0.96	< 0.93	2.4	2.0	1.1 J	2.0	2.1	3.9
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ng/L	600	3000	< 1.0	< 0.93	< 0.96	< 0.93	< 1.1	< 1.1	< 1.0	< 0.99	< 1.0	< 0.97
307-55-1	Perfluorododecanoic acid (PFDoA)	ng/L	100	500	< 1.0	< 0.93	< 0.96	< 0.93	< 0.57	< 0.56	< 0.52	< 0.49	< 0.52	< 0.49
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ng/L	-	-	< 1.0	< 0.93	< 0.96	< 0.93	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.1
376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/L	2000	10000	< 1.0	< 0.93	< 0.96	< 0.93	< 0.75	< 0.74	< 0.69	< 0.65	< 0.69	< 0.64
Sulfonic Acids														
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ng/L	90000	450000	1.1 J	1.4 J	< 0.96	< 0.93	0.45 J	0.40 J	0.40 J	0.67 J	0.52 J	0.73 J
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ng/L	-	-	< 1.0	< 0.93	< 0.96	< 0.93	< 0.31	< 0.31	< 0.28	< 0.27	< 0.28	< 0.27
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ng/L	4	40	1.2 J	< 0.93	< 0.96	< 0.93	1.2 J	1.2 J	0.82 J	0.87 J	1.0 J	1.5 J
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	-	-	< 1.0	< 0.93	< 0.96	< 0.93	< 0.20	< 0.19	< 0.18	< 0.17	< 0.18	< 0.17
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ng/L	2 ⁽²⁾	20 ⁽²⁾	7.8	8.9	< 0.96	< 0.93	< 5.3 U	< 5.3 U	< 0.51 U	< 5.3 U	< 5.3 U	6.6
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ng/L	-	-	< 1.0	< 0.93	< 0.96	< 0.93	< 0.38	< 0.38	< 0.35	< 0.33	< 0.35	< 0.33
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ng/L	-	-	< 1.0	< 0.93	< 0.96	< 0.93	< 0.33	< 0.33	< 0.30	< 0.29	< 0.30	< 0.28
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ng/L	-	-	< 2.0	< 1.9	< 1.9	< 1.9	< 1.0	< 0.99	< 0.92	< 0.87	< 0.91	< 0.86
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	-	-	8.7	8.5	< 1.9	< 1.9	4.9	8.9	3.0	4.5	4.2	7.7
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	-	-	2700	3000	< 1.9	14	1100	1600	680	1100	1200	1500
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	-	-	750	860	< 1.9	< 1.9	290	250	120	270	270	530
Sulfonamides, Sulfonamideacetic acids, Sulfonamidoethanols														
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	1.1 J	1.5 J	< 0.96	< 0.93	8.9	5.8	4.4	4	5.2	1.8
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	-	-	< 4.0	< 3.7	< 3.8	< 3.7	< 0.44	< 0.44	< 0.41	< 0.39	< 0.40	< 0.38
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 2.0	< 1.9	< 1.9	< 1.9	< 0.90	< 0.89	< 0.83	< 0.78	< 0.82	< 0.77
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	-	-	< 2.0	< 1.9	< 1.9	< 1.9	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 2.0	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.1
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	-	-	< 2.0	< 1.9	< 1.9	< 1.9	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.2
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 2.0	< 1.9	< 1.9	< 1.9	< 0.88	< 0.86	< 0.81	< 0.76	< 0.80	< 0.75
Replacement Chemicals														
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	30	300	< 2.0	< 1.9	< 1.9	< 1.9	< 1.6	< 1.5	< 1.4	< 1.3	< 1.4	< 1.3
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	600	3000	< 2.0	< 1.9	< 1.9	< 1.9	< 0.41	< 0.41	< 0.38	< 0.36	< 0.38	< 0.35
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ng/L	-	-	< 2.0	< 1.9	< 1.9	< 1.9	< 0.25	< 0.24	< 0.23	< 0.22	< 0.23	< 0.21
763051-92-9	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ng/L	-	-	< 2.0	< 1.9	< 1.9	< 1.9	< 0.33	< 0.33	< 0.30	< 0.29	< 0.30	< 0.28
Combined Standard														
-	Combined Standard ⁽²⁾	ng/L	2	20	218.9	210.4	ND	ND	108.9	135.8	66.4	104	105.2	178.4

Notes:

CAS RN = Chemical Abstract Service Registry Number
 NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard
 NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit
 ng/L = nanograms per liter (ppt)
 - = Value not established
 J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.
 U = Evaluated to be undetected due to contamination
Italic = Concentration meets or exceeds proposed NR 140 PAL
Bold italic = Concentration meets or exceeds proposed NR 140 ES
 ND = not detected

Footnotes:

⁽¹⁾ Proposed NR 140 ESs and PALs were recommended by the Department of Health Services (DHS) to the DNR. The DNR is in the rule-making process to include these values in ch. NR 140.
⁽²⁾ Combined standards proposed for PFOS, PFOA, PFOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

Table 5: Groundwater Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

		Well Type			Production Wells				Monitoring Wells								
		Sample Location ID			IPW-01	IPW-01	IPW-02	IPW-02	MW-01	MW-01	MW-02	MW-02	MW-03	MW-03 Dup	MW-03	MW-04	MW-04
		Sample Depth															
		Sample Date			05/17/2021	07/16/2021	05/17/2021	07/16/2021	05/17/2021	07/16/2021	05/17/2021	07/16/2021	05/17/2021	05/17/2021	07/15/2021	05/19/2021	07/16/2021
CAS RN	Constituent	Units	Proposed NR 140 PAL ⁽¹⁾	Proposed NR 140 ES ⁽¹⁾													
Carboxylic Acids																	
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	2,000	10,000	< 2.1	< 2.1	< 2.1	< 2.6	110	270	20	240	3.8 J	3.7 J	6.2	300	300
2706-90-3	Perfluoropentanoic acid (PFPeA)	ng/L	-	-	< 0.43	< 0.42	< 0.44	< 0.53	410	1200	79	1100	1.2 J	0.89 J	< 0.43	1400	1200
307-24-4	Perfluorohexanoic acid (PFHxA)	ng/L	30,000	150,000	< 0.51	< 0.50	< 0.52	< 0.63	170	530	53	720	0.99 J	1.0 J	0.99 J	930	880
375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/L	-	-	< 0.22	< 0.21	< 0.22	< 0.27	93	210	15	200	0.69 J	0.58 J	< 0.22	490	540
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.75	< 0.73	< 0.76	< 0.92	51	160	10	90	< 0.77	< 0.75	< 0.75	630	900
375-95-1	Perfluorononanoic acid (PFNA)	ng/L	3	30	< 0.24	< 0.23	< 0.24	< 0.29	2.4	15	0.82 J	4.8	< 0.24	< 0.24	< 0.24	55	68
335-76-2	Perfluorodecanoic acid (PFDA)	ng/L	60	300	< 0.27	< 0.27	< 0.28	< 0.34	< 0.29	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	18	23
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ng/L	600	3000	< 0.97	< 0.95	< 0.98	< 1.2	< 1.0	< 1.0	< 0.98	< 0.96	< 0.99	< 0.97	< 0.96	1.2 J	1.8
307-55-1	Perfluorododecanoic acid (PFDoA)	ng/L	100	500	< 0.49	< 0.47	< 0.49	< 0.60	< 0.51	< 0.51	< 0.49	< 0.48	< 0.50	< 0.49	< 0.48	< 0.49	< 0.47
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ng/L	-	-	< 1.2	< 1.1	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1
376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/L	2000	10000	< 0.65	< 0.63	< 0.65	< 0.79	< 0.67	< 0.67	< 0.65	< 0.64	< 0.66	< 0.64	< 0.64	< 0.65	< 0.63
Sulfonic Acids																	
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ng/L	90000	450000	< 0.18	< 0.17	< 0.18	< 0.22	0.33 J	0.83 J	< 0.18	0.37 J	0.47 J	0.45 J	0.85 J	0.49 J	0.78 J
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ng/L	-	-	< 0.27	< 0.26	< 0.27	< 0.33	< 0.28	< 0.28	< 0.27	< 0.26	< 0.27	< 0.26	< 0.26	0.29 J	0.32 J
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ng/L	4	40	< 0.50	< 0.49	< 0.51	< 0.62	0.53 J	0.64 J	< 0.51	1.4 J	< 0.51	< 0.50	< 0.50	2.5	3.1
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	-	-	< 0.17	< 0.16	< 0.17	< 0.21	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.16
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.48	< 0.46	< 0.48	< 0.59	< 0.50	2.4	< 0.48	0.87 J	< 0.49	< 0.48	< 0.47	14	17
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ng/L	-	-	< 0.33	< 0.32	< 0.33	< 0.40	< 0.34	< 0.34	< 0.33	< 0.32	< 0.33	< 0.33	< 0.32	< 0.33	< 0.32
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ng/L	-	-	< 0.28	< 0.27	< 0.29	< 0.35	< 0.29	< 0.29	< 0.28	< 0.28	< 0.29	< 0.28	< 0.28	< 0.28	< 0.28
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ng/L	-	-	< 0.86	< 0.83	< 0.87	< 1.1	< 0.89	< 0.89	< 0.86	< 0.85	< 0.88	< 0.86	< 0.85	< 0.86	< 0.84
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	-	-	< 0.21	< 0.21	< 0.21	< 0.26	< 0.22	< 0.22	< 0.21	2.7	< 0.22	< 0.21	< 0.21	34	40
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	-	-	< 2.2	< 2.1	< 2.2	< 2.7	340	870	87	610	< 2.3	< 2.2	< 2.2	4100	3600
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	-	-	< 0.41	< 0.40	< 0.41	< 0.50	2.8	13	3.0	39	< 0.42	< 0.41	< 0.40	1700	2300
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																	
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.87	< 0.84	< 0.88	1.2 J	< 0.90	< 0.90	< 0.87	< 0.86	< 0.89	< 0.86	< 0.86	1.0 J	0.89 J
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	-	-	< 0.38	< 0.37	< 0.38	< 0.47	< 0.40	< 0.40	< 0.38	< 0.38	< 0.39	< 0.38	< 0.38	< 0.38	< 0.37
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.77	< 0.75	< 0.78	< 0.95	< 0.80	< 0.80	< 0.77	< 0.76	< 0.79	< 0.77	< 0.76	< 0.77	< 0.75
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	-	-	< 1.1	< 1.0	< 1.1	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 1.2	< 1.1	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	-	-	< 1.2	< 1.2	< 1.3	< 1.5	< 1.3	< 1.3	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.75	< 0.73	< 0.76	< 0.92	< 0.78	< 0.78	< 0.75	< 0.74	< 0.77	< 0.75	< 0.75	< 0.75	< 0.73
Replacement Chemicals																	
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	30	300	< 1.3	< 1.3	< 1.3	< 1.6	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	600	3000	< 0.35	< 0.34	< 0.36	< 0.43	< 0.37	< 0.37	< 0.36	< 0.35	< 0.36	< 0.35	< 0.35	< 0.35	< 0.34
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ng/L	-	-	< 0.21	< 0.21	< 0.21	< 0.26	< 0.22	< 0.22	< 0.21	< 0.21	< 0.22	< 0.21	< 0.21	< 0.21	< 0.21
763051-92-9	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ng/L	-	-	< 0.28	< 0.27	< 0.29	< 0.35	< 0.29	< 0.29	< 0.28	< 0.28	< 0.29	< 0.28	< 0.28	< 0.28	< 0.28
Combined Standard																	
-	Combined Standard ⁽²⁾	ng/L	2	20	ND	ND	ND	1.2 J	51	162.4	10	90.87	ND	ND	ND	645	917.89

Notes:

CAS RN = Chemical Abstract Service Registry Number
 NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard
 NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit
 ng/L = nanograms per liter (ppt)
 - = Value not established
 J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.
 U = Evaluated to be undetected due to contamination
Italic = Concentration meets or exceeds proposed NR 140 PAL
Bold italic = Concentration meets or exceeds proposed NR 140 ES
 ND = not detected

Footnotes:

⁽¹⁾ Proposed NR 140 ESs and PALs were recommended by the Department of Health Services (DHS) to the DNR. The DNR is in the rule-making process to include these values in ch. NR 140.
⁽²⁾ Combined standards proposed for PFOS, PFOA, PFOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

Table 5: Groundwater Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Well Type					Monitoring Wells (continued)								Piezometer		Off-Site Potable Well
Sample Location ID					MW-05	MW-05	MW-05 Dup	MW-06	MW-06	MW-07	MW-07	PZ-01	PZ-01	2304 CARPENTER SWAIN 07/21/2021	
Sample Depth															
Sample Date					05/19/2021	07/15/2021	07/15/2021	05/19/2021	07/15/2021	05/19/2021	07/14/2021	07/01/2021	07/15/2021		
CAS RN	Constituent	Units	Proposed NR 140 PAL ⁽¹⁾	Proposed NR 140 ES ⁽¹⁾											
Carboxylic Acids															
375-22-4	Perfluorobutanoic acid (PFBA)	ng/L	2,000	10,000	78	51	51	2.7 J	< 2.1	< 2.1	< 2.1	< 1.9	< 2.1	< 2.3	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ng/L	-	-	320	230	220	< 0.44	< 0.44	< 0.43	< 0.43	< 0.40	< 0.43	< 0.47	
307-24-4	Perfluorohexanoic acid (PFHxA)	ng/L	30,000	150,000	190	140	130	< 0.52	0.51 J	< 0.51	< 0.51	< 0.47	< 0.51	< 0.55	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ng/L	-	-	96	98	93	< 0.22	< 0.22	< 0.22	< 0.22	< 0.20	< 0.22	< 0.24	
335-67-1	Perfluorooctanoic acid (PFOA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	69	61	56	< 0.76	< 0.75	< 0.75	< 0.74	< 0.69	< 0.74	< 0.81	
375-95-1	Perfluorononanoic acid (PFNA)	ng/L	3	30	0.28 J	6.2	7.1	< 0.24	< 0.24	< 0.24	< 0.24	< 0.22	0.91 J	< 0.26	
335-76-2	Perfluorodecanoic acid (PFDA)	ng/L	60	300	< 0.28	1.9	1.8 J	< 0.28	< 0.28	< 0.27	< 0.27	0.28 J	2.6	< 0.30	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ng/L	600	3000	< 0.98	< 1.0	< 1.1	< 0.98	< 0.98	< 0.97	< 0.96	< 0.89	6.2	< 1.0	
307-55-1	Perfluorododecanoic acid (PFDoA)	ng/L	100	500	< 0.49	< 0.50	< 0.53	< 0.49	< 0.49	< 0.49	< 0.48	< 0.45	4.5	< 0.52	
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	5.2	< 1.2	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ng/L	2000	10000	< 0.65	< 0.67	< 0.70	< 0.65	< 0.65	< 0.64	< 0.64	< 0.59	3.5	< 0.70	
Sulfonic Acids															
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ng/L	90000	450000	0.44 J	0.61 J	0.50 J	< 0.18	< 0.18	3.0	8.4	< 0.16	< 0.17	0.83 J	
2706-91-4	Perfluoropentane sulfonic acid (PFPeS)	ng/L	-	-	< 0.27	< 0.28	< 0.29	< 0.27	< 0.27	< 0.26	< 0.26	< 0.24	< 0.26	< 0.29	
355-46-4	Perfluorohexane sulfonic acid (PFHxS)	ng/L	4	40	0.69 J	< 0.52	< 0.55	< 0.51	< 0.51	< 0.50	< 0.50	< 0.46	< 0.50	< 0.54	
375-92-8	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	-	-	< 0.17	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.15	< 0.17	< 0.18	
1763-23-1	Perfluorooctane sulfonic acid (PFOS)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.48	3.2	2.9	< 0.48	< 0.48	< 0.48	< 0.47	< 0.44	< 0.47	< 0.52	
68259-12-1	Perfluorononane sulfonic acid (PFNS)	ng/L	-	-	< 0.33	< 0.34	< 0.36	< 0.33	< 0.33	< 0.33	< 0.32	< 0.30	< 0.32	< 0.35	
335-77-3	Perfluorodecane sulfonic acid (PFDS)	ng/L	-	-	< 0.29	< 0.29	< 0.31	< 0.28	< 0.28	< 0.28	< 0.28	< 0.26	< 0.28	< 0.31	
79780-39-5	Perfluorododecane sulfonic acid (PFDoS)	ng/L	-	-	< 0.86	< 0.89	< 0.93	< 0.86	< 0.86	< 0.86	< 0.85	< 0.79	< 0.84	< 0.93	
757124-72-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ng/L	-	-	< 0.21	< 0.22	< 0.23	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19	< 0.21	< 0.23	
27619-97-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ng/L	-	-	460	120	120	< 2.2	< 2.2	< 2.2	< 2.2	< 2.0	< 2.2	< 2.4	
39108-34-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ng/L	-	-	1.0 J	96	81	< 0.41	< 0.41	< 0.41	< 0.40	< 0.37	< 0.40	< 0.44	
Sulfonamides, Sulfonamidoacetic acids, Sulfonamidoethanols															
754-91-6	Perfluorooctane sulfonamide (PFOSA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.87	< 0.90	< 0.94	< 0.87	< 0.87	< 0.87	< 0.85	1.5 J	< 0.85	< 0.94	
31506-32-8	N-Methylperfluorooctane sulfonamide (NMeFOSA)	ng/L	-	-	< 0.38	< 0.39	< 0.41	< 0.38	< 0.38	< 0.38	< 0.38	< 0.35	< 0.37	< 0.41	
4151-50-2	N-Ethylperfluorooctane sulfonamide (NEtFOSA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.78	< 0.80	< 0.84	< 0.77	< 0.77	< 0.77	< 0.76	< 0.71	< 0.76	< 0.83	
2355-31-9	N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	ng/L	-	-	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.0	< 0.97	< 1.0	< 1.1	
2991-50-6	N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	
24448-09-7	N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	ng/L	-	-	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.3	
1691-99-2	N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	ng/L	2 ⁽²⁾	20 ⁽²⁾	< 0.76	< 0.78	< 0.82	< 0.76	< 0.75	< 0.75	< 0.74	< 0.69	< 0.74	< 0.81	
Replacement Chemicals															
13252-13-6	Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	ng/L	30	300	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.2	< 1.3	< 1.4	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ng/L	600	3000	< 0.36	< 0.37	< 0.38	< 0.36	< 0.36	< 0.35	< 0.35	< 0.32	< 0.35	< 0.38	
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ng/L	-	-	< 0.21	< 0.22	< 0.23	< 0.21	< 0.21	< 0.21	< 0.21	< 0.19	< 0.21	< 0.23	
763051-92-9	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ng/L	-	-	< 0.29	< 0.29	< 0.31	< 0.28	< 0.28	< 0.28	< 0.28	< 0.26	< 0.28	< 0.31	
Combined Standard															
-	Combined Standard ⁽²⁾	ng/L	2	20	69	64.2	58.9	ND	ND	ND	ND	1.5 J	ND	ND	

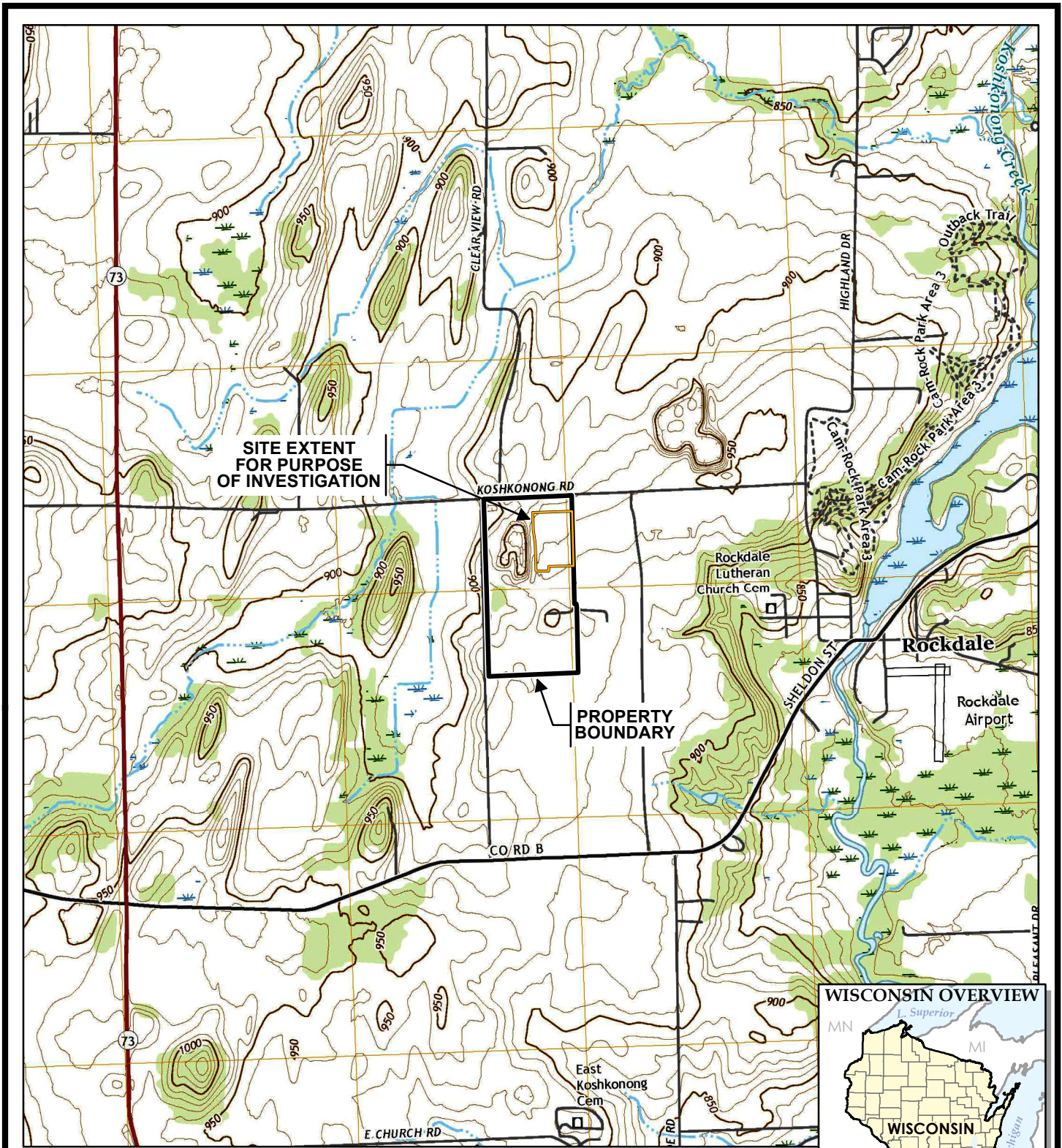
Notes:

CAS RN = Chemical Abstract Service Registry Number
 NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard
 NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit
 ng/L = nanograms per liter (ppt)
 - = Value not established
 J = Estimated concentration at or above the method detection limit and below the laboratory reporting limit.
 U = Evaluated to be undetected due to contamination
Italic = Concentration meets or exceeds proposed NR 140 PAL
Bold italic = Concentration meets or exceeds proposed NR 140 ES
 ND = not detected

Prepared by: P. Popp, 7/14/2021
 Checked and revised by: L. Auner, 7/15/2021
 Checked by: J. Ramey 7/16/2021
 Updated by: L. Auner, 7/29/2021
 Checked by: A. Enright 7/29/2021

Footnotes:

⁽¹⁾ Proposed NR 140 ESs and PALs were recommended by the Department of Health Services (DHS) to the DNR. The DNR is in the rule-making process to include these values in ch. NR 140.
⁽²⁾ Combined standards proposed for PFOS, PFOA, PFOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, 2018.



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

TRC - GIS

PROJECT: **BRRTS #02-13-587341**
ROCKGEN ENERGY CENTER
2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
DANE COUNTY, WISCONSIN 53523

TITLE: **SITE LOCATION MAP**

DRAWN BY:	R. SUENICHT
CHECKED BY:	L. AUNER
APPROVED BY:	K. QUINN
DATE:	APRIL 2021
PROJ. NO.:	435526
FILE:	435526-001slm.mxd

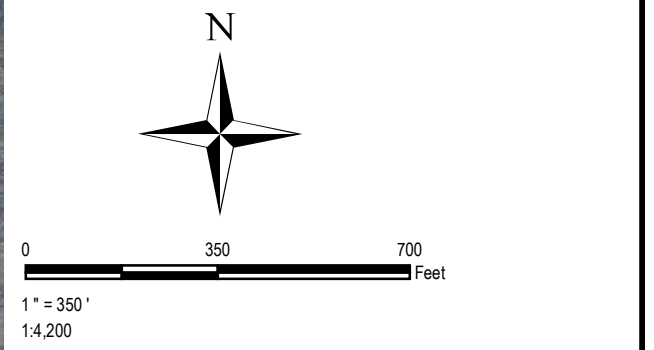
FIGURE 1



LEGEND

- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

- NOTES**
1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.



PROJECT: BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE: SITE VICINITY MAP	
DRAWN BY: G. CORYELL CHECKED BY: L. AUNER APPROVED BY: J. RAMEY DATE: SEPTEMBER 2021	PROJ. NO.: 437865-001 FIGURE 2
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.: 437865-SIR-002_Vicinity.mxd	

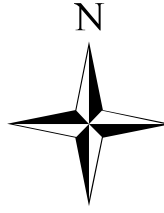
Plot Date: 9/7/2021, 11:04:56 AM by GCORYELL - LAYOUT: ANSIBI(11"x17") Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) Map Rotation: 0
 Path: \\emplyees\gis\GIS1-PROJECTS\RockGen_Energy_Center\Cambridge\W435526\437865-SIR-003_Topo.mxd

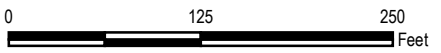


LEGEND

- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET/OUTLET
- 2' MINOR CONTOUR
- 10' MAJOR CONTOUR
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION
- DRAINAGE CHANNEL*


- NOTES**
1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 3. CONTOUR DATA FROM DANE COUNTY LAND INFORMATION OFFICE, 2017.
 4. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.



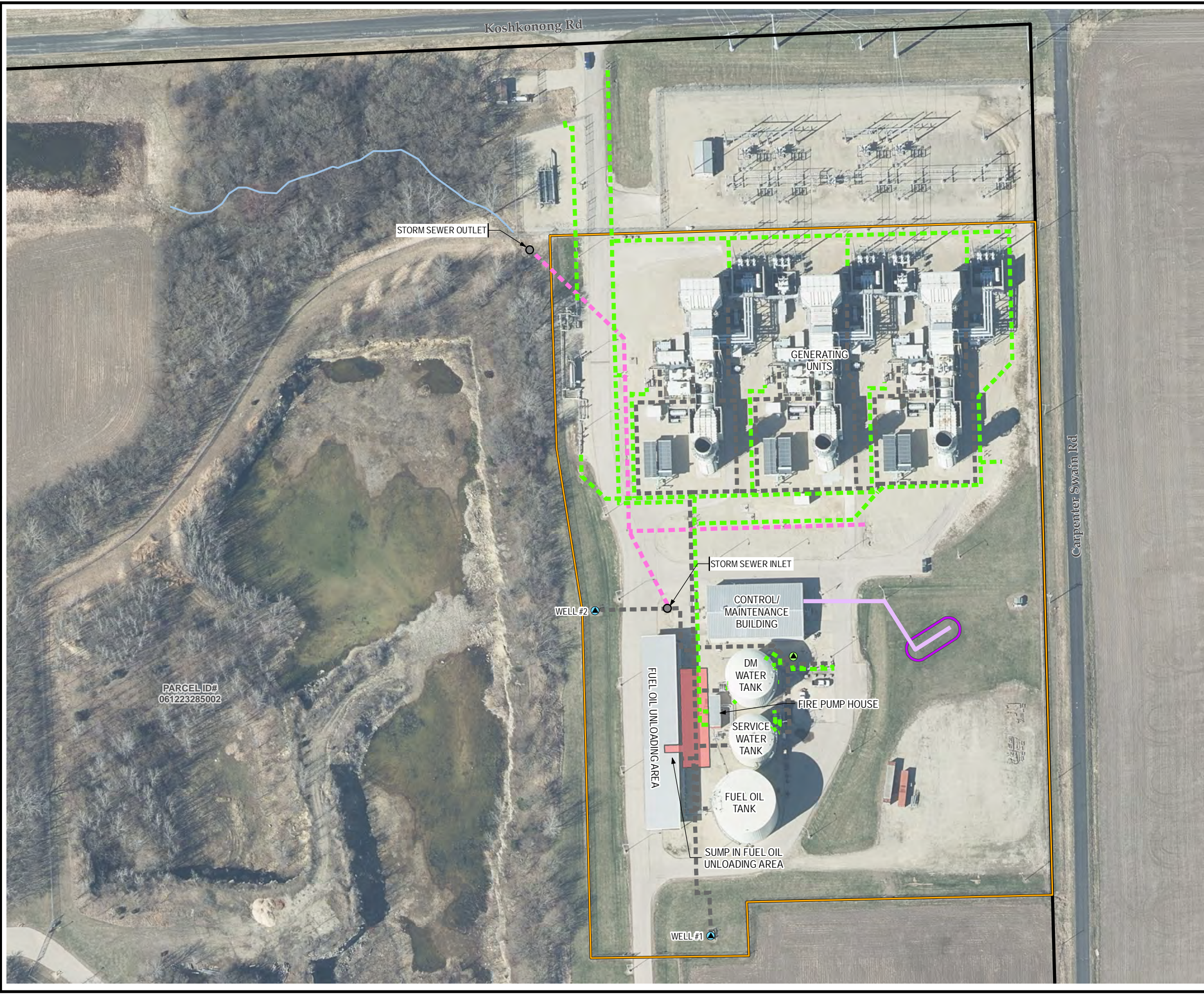


0 125 250
Feet

1" = 125'
1:1,500

PROJECT: BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE: SITE TOPOGRAPHY	
DRAWN BY: G. CORYELL CHECKED BY: L. AUNER APPROVED BY: J. RAMEY DATE: SEPTEMBER 2021	PROJ. NO.: 437865-001 FIGURE 3
	
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.: 437865-SIR-003_Topo.mxd	

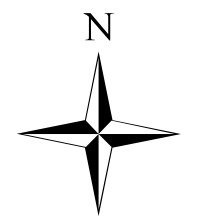
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 Path: \\employees\gis\GIS1-PROJECTS\RockGen_Energy_Center\Cambridge\W\437865-SIR-004_SITE_LAYOUT.mxd



LEGEND

- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET/OUTLET
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION
- PIPING
- STORM SEWER
- UNDERGROUND PROCESS PIPING
- SEPTIC SYSTEM PIPING (APPROXIMATE)
- DRAINAGE CHANNEL*

- NOTES**
1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
 4. UNDERGROUND UTILITIES FROM PRE-CONSTRUCTION DRAWINGS, ADJUSTED BASED ON ABOVEGROUND FEATURES. SEPTIC PIPING BASED ON SEPTIC SYSTEM PERMIT. ACTUAL UTILITY LOCATIONS MAY DIFFER FROM PRE-CONSTRUCTION PLANS.



0 125 250
 Feet
 1" = 110'
 1:1,320

PROJECT: BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE: SITE LAYOUT MAP	
DRAWN BY: G. CORYELL CHECKED BY: L. AUNER APPROVED BY: J. RAMEY DATE: SEPTEMBER 2021	PROJ. NO.: 437865-001 FIGURE 4
708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.: 437865-SIR-004_SITE_LAYOUT.mxd	

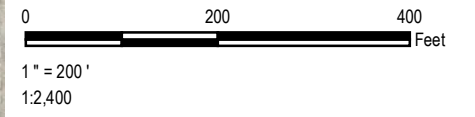
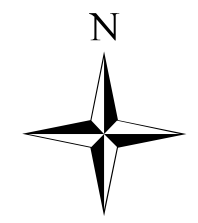


LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- PIEZOMETER
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.



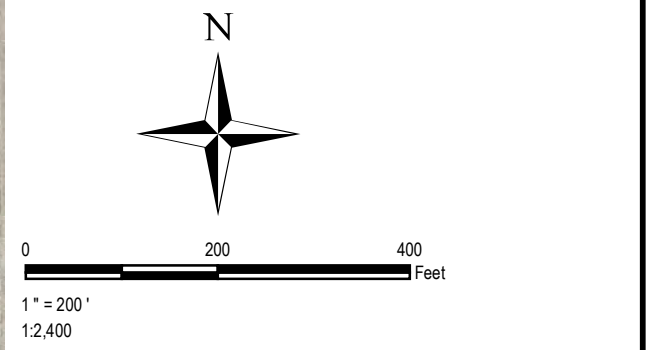
PROJECT:		BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE:		SITE INVESTIGATION OVERVIEW	
DRAWN BY:	G. CORYELL	PROJ. NO.:	437865
CHECKED BY:	L. AUNER	FIGURE 5	
APPROVED BY:	J. RAMEY		
DATE:	SEPTEMBER 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:	437865-SIR-005_Site_Invetigation_Overview.mxd		



LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- PIEZOMETER
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (0.5 FT, FT AMSL)
- (884.57) GROUNDWATER ELEVATION (FT AMSL)
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

- NOTES**
1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.



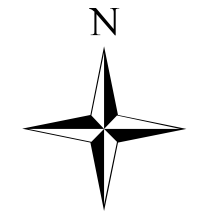
PROJECT:		BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE:		WATER TABLE MAP MAY 27, 2021	
DRAWN BY:	G. CORYELL	PROJ. NO.:	437865
CHECKED BY:	L. AUNER	FIGURE 6	
APPROVED BY:	J. RAMEY		
DATE:	SEPTEMBER 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:	437865-SIR-006_Water_Table.mxd		



LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- PIEZOMETER
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (0.5 FT, FT AMSL)
- (884.57) GROUNDWATER ELEVATION (FT AMSL)
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

- NOTES**
1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
 4. WATER TABLE CONTOURS AND FLOW DIRECTION BASED ON MONITORING WELLS ONLY (PZ-01 NOT INCLUDED).



PROJECT:		BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE:		WATER TABLE MAP JULY 14, 2021	
DRAWN BY:	G. CORYELL	PROJ. NO.:	437865
CHECKED BY:	L. AUNER	FIGURE 7	
APPROVED BY:	J. RAMEY		
DATE:	SEPTEMBER 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:	437865-SIR-007_Water_Table_July.mxd		



LEGEND

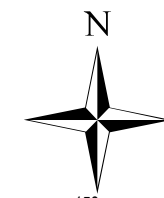
- MONITORING WELL
- PIEZOMETER
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

BORING/SAMPLE ID (SAMPLE DEPTH, FT BGS)
RESULTS (µg /kg)

SOIL RESULTS FOR SELECT PFAS
(DETECTIONS OF 8:2 FTS, PFOA, AND PFOS)

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.



0 150 300
Feet
1" = 150'
1:1,800

PROJECT:		BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE: SOIL SAMPLING RESULTS MAP			
DRAWN BY:	G. CORYELL	PROJ. NO.:	437865
CHECKED BY:	L. AUNER	FIGURE 8	
APPROVED BY:	J. RAMEY		
DATE:	SEPTEMBER 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:	437865-SIR-008_SS_Results.mxd		



LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- PIEZOMETER
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- GROUNDWATER FLOW DIRECTION
- PFOA ISOCONTOUR (NG/L), DASHED WHERE INFERRED
- GROUNDWATER ELEVATION CONTOUR (0.5 FT, FT AMSL)
- (884.57) GROUNDWATER ELEVATION (FT AMSL)
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

GROUNDWATER RESULTS FOR SELECT PFAS (ng/L)
RED BOLD = RESULT EXCEEDS RECOMMENDED NR 140 ES
BLUE BOLD = RESULT EXCEEDS RECOMMENDED NR 140 PAL

- NOTES**
- BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 - PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 - * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
 - GROUNDWATER ELEVATIONS MEASURED MAY 27, 2021. MONITORING WELL SAMPLE RESULTS FROM MAY 2021, POTABLE WELL SAMPLE RESULTS FROM MARCH 2021.



PROJECT:		BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
TITLE: GROUNDWATER RESULTS MARCH/MAY 2021			
DRAWN BY:	G. CORYELL	PROJ. NO.:	437865
CHECKED BY:	L. AUNER	FIGURE 9	
APPROVED BY:	J. RAMEY		
DATE:	SEPTEMBER 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:	437865-SIR-009_GW_RESULTS_MARCH_MAY.mxd		



LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- PIEZOMETER
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- GROUNDWATER FLOW DIRECTION
- (884.57) GROUNDWATER ELEVATION (FT AMSL)
- PFOA ISOCONTOUR (NG/L), DASHED WHERE INFERRED
- GROUNDWATER ELEVATION CONTOUR (0.5 FT, FT AMSL)
- CROSS SECTION TRANSECT
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

GROUNDWATER RESULTS FOR SELECT PFAS (ng/L)
RED BOLD = RESULT EXCEEDS RECOMMENDED NR 140 ES
BLUE BOLD = RESULT EXCEEDS RECOMMENDED NR 140 PAL

- ### NOTES
- BASE MAP IMAGERY FROM DANE COUNTY, 2020.
 - PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
 - * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
 - GROUNDWATER ELEVATIONS MEASURED JULY 14, 2021. GROUNDWATER RESULTS FROM SAMPLES COLLECTED JULY 14-16, 2021.

0 200 400 Feet
 1" = 200'
 1:2,400

PROJECT: **BRRTS #02-13-587341
 ROCKGEN ENERGY CENTER
 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
 DANE COUNTY, WISCONSIN 53523**

TITLE: **GROUNDWATER RESULTS
 JULY 2021**

DRAWN BY: G. CORYELL	PROJ. NO.: 437865
CHECKED BY: L. AUNER	FIGURE 10
APPROVED BY: J. RAMEY	
DATE: SEPTEMBER 2021	

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

FILE NO.: 437865-SIR-010_GW_RESULTS_2021July.mxd



LEGEND

- DRAINAGE CHANNEL*
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

GROUNDWATER RESULTS
 PIE CHART AREA PROPORTIONAL TO SUM OF DETECTED PFAS (NG/L)

- PERFLUOROBUTANESULFONIC ACID (PFBS)
- PERFLUOROHXANESULFONIC ACID (PFHxS)
- PERFLUOROHEPTANESULFONIC ACID (PFHpS)
- PERFLUOROOCETANESULFONIC ACID (PFOS)
- 6:2 FLUOROTELOMER SULFONIC ACID (6:2 FTS)
- 8:2 FLUOROTELOMER SULFONIC ACID (8:2 FTS)
- PERFLUOROBUTANOIC ACID (PFBA)
- PERFLUOROPENTANOIC ACID (PFPeA)
- PERFLUOROHXANOIC ACID (PFHxA)
- PERFLUOROHEPTANOIC ACID (PFHpA)
- PERFLUOROOCETANOIC ACID (PFOA)
- PERFLUORONONANOIC ACID (PFNA)

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2020.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
4. MONITORING WELL SAMPLE RESULTS FROM MAY 2021, POTABLE WELL (RAW TAP) SAMPLE RESULTS FROM MARCH 2021.

0 200 400
 Feet
 1" = 200' 1:2,400

N

PROJECT: **BRRTS #02-13-587341**
ROCKGEN ENERGY CENTER
 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
 DANE COUNTY, WISCONSIN 53523

TITLE: **GROUNDWATER RESULTS PIE CHARTS**
MARCH/MAY 2021

DRAWN BY: G. CORYELL	PROJ. NO.: 437865
CHECKED BY: L. AUNER	FIGURE 11
APPROVED BY: J. RAMEY	
DATE: SEPTEMBER 2021	

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

FILE NO.: 437865-SIR-011_GW_PIE_RESULTS_March_May.mxd



LEGEND

- DRAINAGE CHANNEL*
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

GROUNDWATER RESULTS PIE CHART AREA PROPORTIONAL TO SUM OF DETECTED PFAS (ng/L)

- PERFLUOROBUTANOIC ACID (PFBA)
- PERFLUOROPENTANOIC ACID (PFPeA)
- PERFLUOROHEXANOIC ACID (PFHxA)
- PERFLUOROHEPTANOIC ACID (PFHpA)
- PERFLUOROOCCTANOIC ACID (PFOA)
- PERFLUORONONANOIC ACID (PFNA)
- PERFLUORODECANOIC ACID (PFDA)
- PERFLUOROUNDECANOIC ACID (PFUnA)
- PERFLUORODODECANOIC ACID (PFDoA)
- PERFLUOROTRIDECANOIC ACID (PFTriDA)
- PERFLUOROTETRADECANOIC ACID (PFTA)
- PERFLUOROBUTANE SULFONIC ACID (PFBS)
- PERFLUOROPENTANE SULFONIC ACID (PFPeS)
- PERFLUOROHEXANE SULFONIC ACID (PFHxS)
- PERFLUOROOCCTANE SULFONIC ACID (PFOS)
- 4:2 FLUOROTELOMER SULFONIC ACID (4:2 FTS)
- 6:2 FLUOROTELOMER SULFONIC ACID (6:2 FTS)
- 8:2 FLUOROTELOMER SULFONIC ACID (8:2 FTS)
- PERFLUOROOCCTANE SULFONAMIDE (PFOSA)

NOTES

- BASE MAP IMAGERY FROM DANE COUNTY, 2020.
- PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
- * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
- GROUNDWATER RESULTS FROM SAMPLES COLLECTED JULY 14-21, 2021.

0 200 400 Feet
 1" = 200' 1:2,400

PROJECT: BRRTS #02-13-587341
 ROCKGEN ENERGY CENTER
 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
 DANE COUNTY, WISCONSIN 53523

TITLE: GROUNDWATER RESULTS PIE CHARTS
 JULY 2021

DRAWN BY: G. CORYELL **PROJ. NO.:** 437865
CHECKED BY: L. AUNER
APPROVED BY: J. RAMEY
DATE: SEPTEMBER 2021

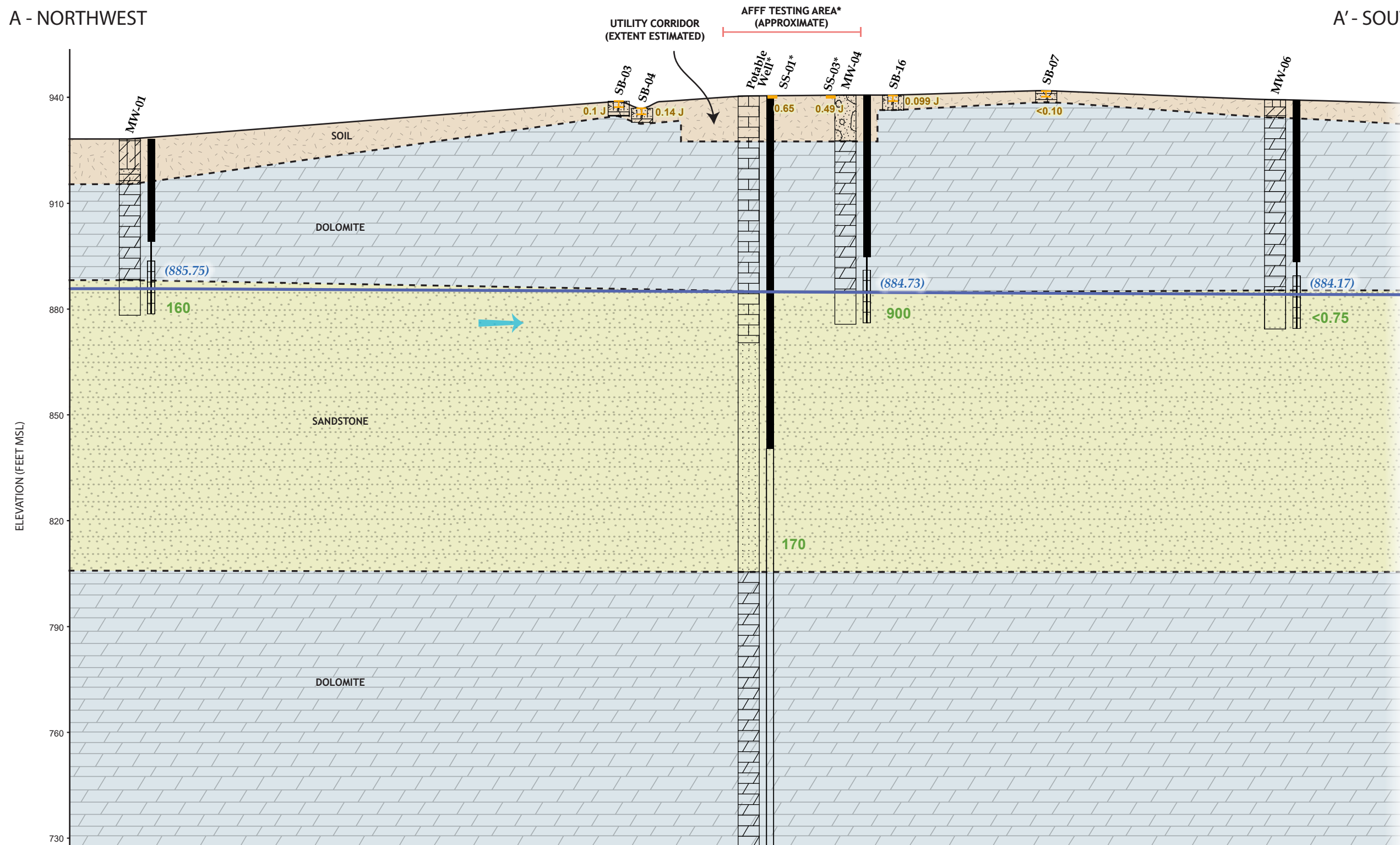
FIGURE 12

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 Madison, WI 53717
 Phone: 608.826.3600
 www.trccompanies.com

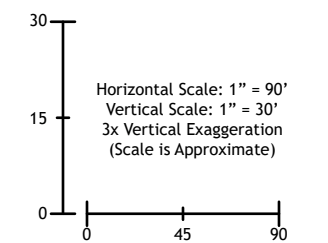
FILE NO.: 437865-SIR-012_GW_PIE_RESULTS_2021JULY.mxd

A - NORTHWEST

A' - SOUTHEAST



- NOTES**
1. GROUND SURFACE ELEVATIONS AT EACH WELL BASED ON SURVEY BY WISCONSIN LAND SURVEY, INC.
 2. GROUND SURFACE ELEVATIONS AT SOIL BORINGS WERE ESTIMATED BASED ON TOPOGRAPHIC CONTOURS OR SURVEYED ELEVATION OF NEARBY WELL.
 3. UPPER BEDROCK INTERPRETED AS DOLOMITE BASED ON REGIONAL GEOLOGY.
 4. GROUNDWATER RESULTS FROM SAMPLES COLLECTED JULY 14-16, 2021.
 5. SOIL RESULTS FROM SAMPLES COLLECTED IN APRIL 2021.
 - 6 * = FEATURE PROJECTED ONTO TRANSECT.



BOREHOLE LOG SYMBOLOGY

LEGEND

	SUBSURFACE UNITS		STRATIGRAPHIC BOUNDARY, DASHED WHERE INFERRED
			GROUNDWATER ELEVATION (FT, MSL), 7/14/2021
			GROUNDWATER FLOW DIRECTION
			PFOA CONCENTRATION IN GROUNDWATER (ng/L)
			PFOA CONCENTRATION IN SOIL (ug/kg)

PROJECT: **BRRTS #02-13-587341**
ROCKGEN ENERGY CENTER
 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA
 DANE COUNTY, WISCONSIN 53523

TITLE: **GEOLOGIC CROSS SECTION A-A'**

DRAWN BY: L. AUNER PROJ NO: 437865
 CHECKED BY: A. ENRIGHT
 APPROVED BY: J. RAMEY
 DATE: SEPTEMBER 2021

FIGURE 13

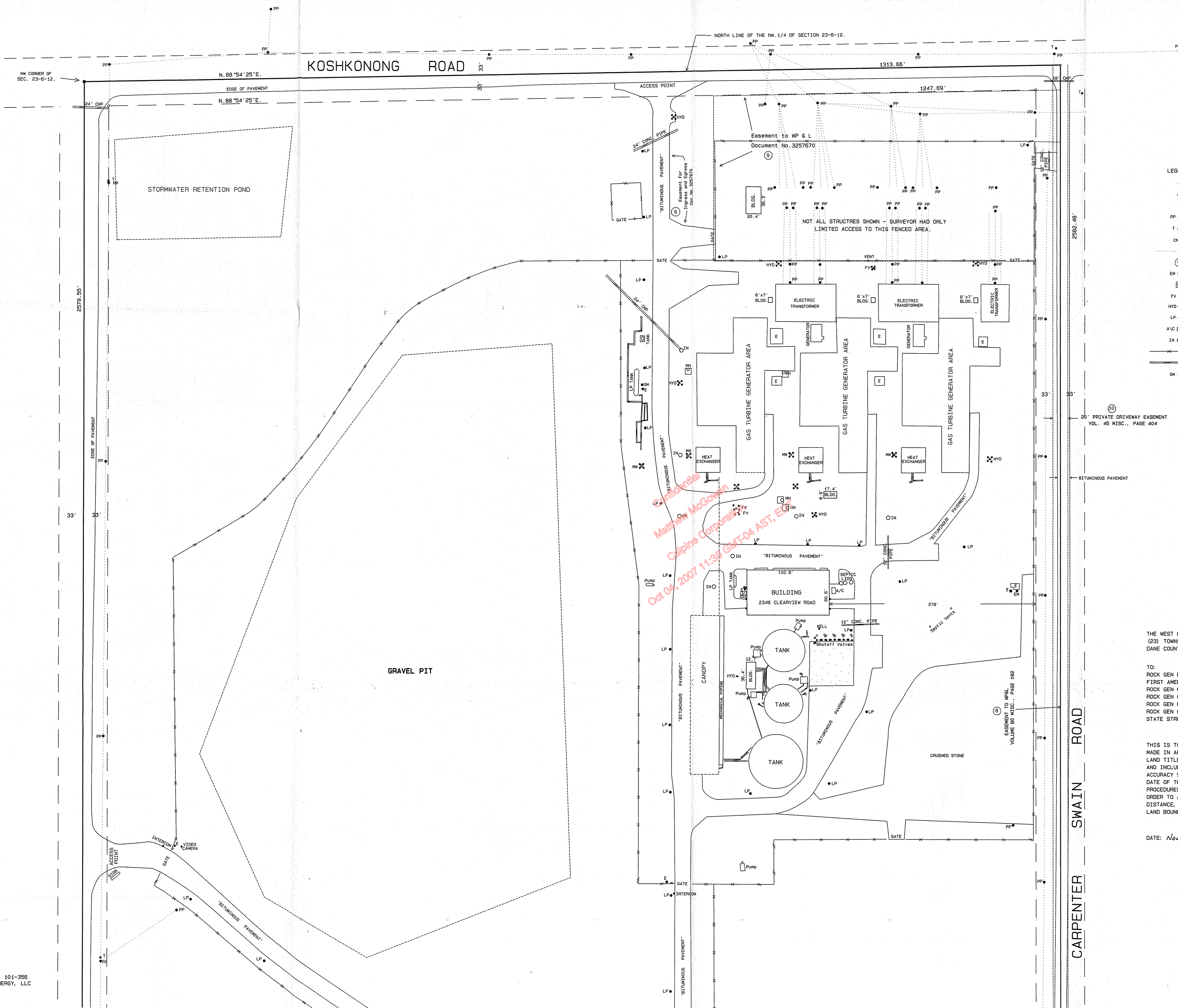
708 Heartland Trail
 Suite 3000
 Madison, WI 53717
 Phone: 608.826.3600

FILE NO: 437865_ai01_A.ai

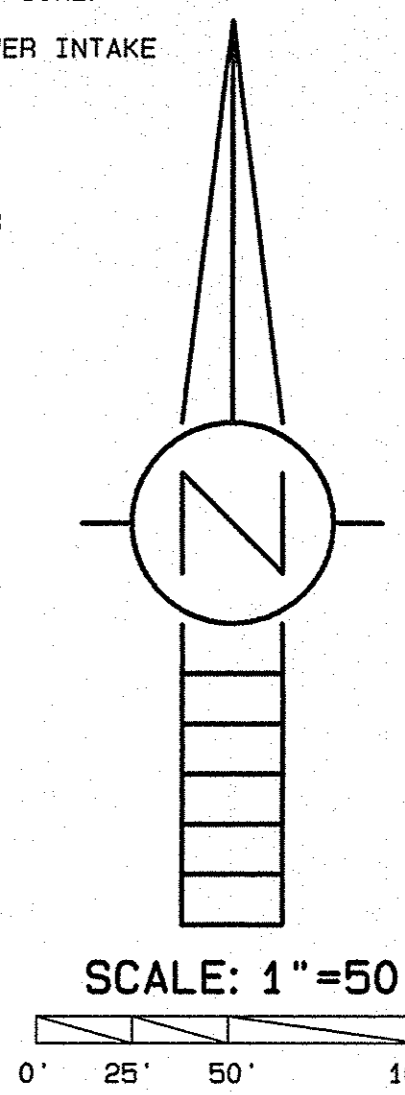
File Path: \\madison-vfp\Projects\PROJECTS\AI\RockGen

Appendix A: Deed and Survey Map

ALTA/ACSM LAND TITLE SURVEY



- LEGEND:
- FOUND IRON REBAR
 - FOUND ALUMINUM MONUMENT
 - × FOUND PK MASONRY NAIL
 - PP ● UTILITY POLE
 - T ■ TELEPHONE BOX
 - CHP CORRUGATED METAL PIPE
 - OVERHEAD UTILITY LINES
 - Ⓢ SCHEDULE B - SECTION II EXCEPTION
 - EM ■ ELECTRIC METER
 - E ■ ELECTRIC TRANSFORMER
 - FV ■ FIRE VALVE
 - HYD ■ FIRE HYDRANT
 - LP ● LIGHT POLE
 - A/C ■ AIR CONDITIONER
 - IN ○ STORM SEWER INTAKE
 - FENCE
 - PIPING
 - GM ■ GAS METER



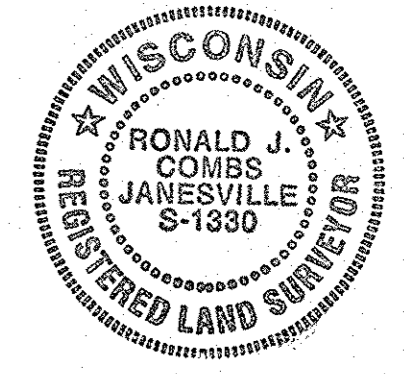
THE WEST HALF OF THE NORTHWEST QUARTER (1/2 NW 1/4) OF SECTION TWENTY-THREE (23) TOWNSHIP SIX (6) NORTH, RANGE TWELVE (12) EAST, IN THE TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN.

TO:
 ROCK GEN ENERGY LLC;
 FIRST AMERICAN TITLE INSURANCE COMPANY;
 ROCK GEN OL-1, LLC;
 ROCK GEN OL-2, LLC;
 ROCK GEN OL-3, LLC;
 ROCK GEN OL-4, LLC;
 STATE STREET BANK AND TRUST COMPANY OF CONNECTICUT, N.A.;

THIS IS TO CERTIFY THAT THIS MAP AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA, NSPS AND ACSM AND INCLUDES ITEMS 1, 7A, B, 10 AND 11A OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NSPS AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT PROPER FIELD PROCEDURES, INSTRUMENTATION AND ADEQUATE SURVEY PERSONNEL WERE EMPLOYED IN ORDER TO ACHIEVE RESULTS COMPARABLE TO THOSE OUTLINED IN THE "MINIMUM ANGLE, DISTANCE, AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WHICH CONTROL LAND BOUNDARIES FOR ALTA/ACSM LAND TITLE SURVEYS".

DATE: November 30, 2001

Ronald J. Combs
 RONALD J. COMBS, RLS NO. 1330



STATE BAR OF WISCONSIN FORM 1 - 1998
WARRANTY DEED

DANE COUNTY
REGISTER OF DEEDS

3196550

03-08-2000 1:13 PM

Trans. Fee 2400.00

Rec. Fee 14.00

Pages 3

Document Number

This Deed, made between Norman Thomas Carpenter
and Janet M. Carpenter, as husband and wife

Grantor,
and RockGen Energy LLC

Grantee.

Grantor, for a valuable consideration, conveys to Grantee the following
described real estate in Dane County, State of
Wisconsin (the "Property"):

See Exhibit A attached hereto and incorporated
herein by reference.

000341

Recording Area

Name and Return Address

Jesse S. Ishikawa
Rainhart, Boerner, Van Deuren,
Norris & Rieselbach, s.c.
P.O. Box 2018
Madison, WI 53701-2018

08-0612-232-8500-2

08-0612-232-9000-5

Parcel Identification Number (PIN)

This is homestead property.

(is) (is not)

Together with all appurtenant rights, title and interests.

Grantor warrants that the title to the Property is good, indefeasible in fee simple and free and clear of encumbrances except
See Exhibit B attached hereto and incorporated herein by reference.

Dated this 2nd day of March, 2000.

Norman Thomas Carpenter
* Norman Thomas Carpenter

Janet M. Carpenter
* Janet M. Carpenter

AUTHENTICATION

Signature(s) _____

authenticated this _____ day of _____,

*
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, _____
authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Jesse S. Ishikawa, Reinhart, Boerner,
et al., PO Box 2018, Madison, WI 53701
(Signatures may be authenticated or acknowledged. Both are
not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN

DANE County, ss.
Personally came before me this 2nd day of
MARCH, 2000 the above named
Norman Thomas Carpenter and
Janet M. Carpenter as
husband and wife

to me known to be the person who executed
the foregoing instrument and acknowledged the same.

Elizabeth T. Rodenkirch, Atty
* Elizabeth T. Rodenkirch, Attorney
Notary Public, State of Wisconsin
My Commission is permanent. (If not, state expiration date:
State Bar Member No. 1006980 , _____)

*Names of persons signing in any capacity must be typed or printed below their signature.

3/14

EXHIBIT A

LEGAL DESCRIPTION

000342

The West Half of the Northwest Quarter (W1/2N1/4) of Section Twenty-Three (23),
Township Six (6) North, Range Twelve (12) East, in the Town of Christiana, Dane
County, Wisconsin.

Tax Parcel Nos: 08-0612-232-8500-2
~~08-0612-232-9000-5~~

EXHIBIT B

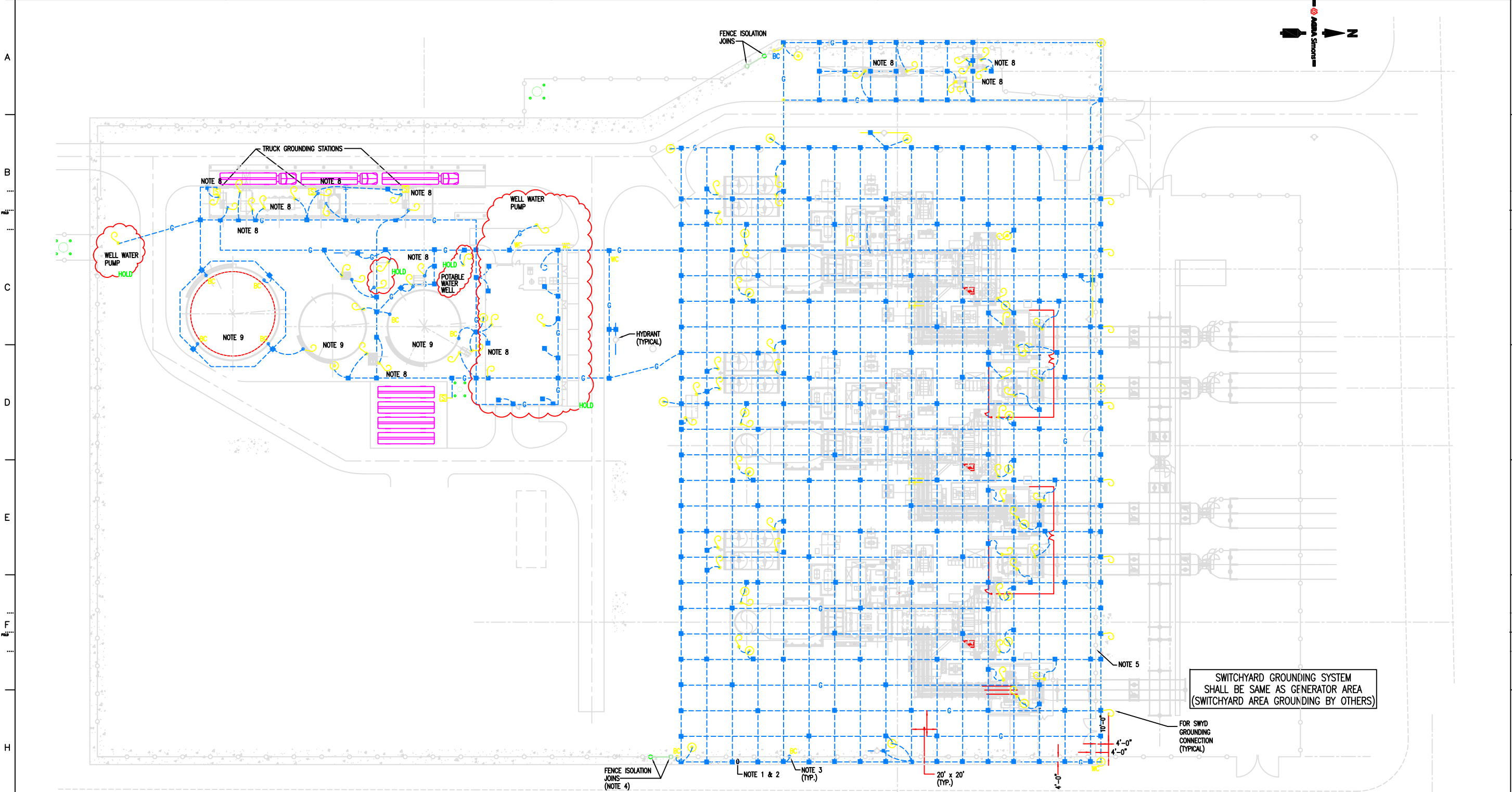
EXCEPTIONS TO WARRANTY DEED

000343

- 1) General taxes for the year 2000 and future years.
- 2) Rights of the public in that portion of the subject premises lying within the limits of Clear View Road, Koshkonong Road, and Carpenter Swain Road.
- 3) Easement, granted to Wisconsin Power and Light Company by an instrument recorded: August 10, 1927, Volume 80 of Misc, Page 182, as Document No. 477974.
- 4) Rights of adjoining owner on the East in and to the use of the joint driveway situated partly on the subject land and partly on the land adjoining on the East disclosed by Agreement recorded: April 28, 1919, Volume 45 of Misc, Page 404, as Document No. 378650.

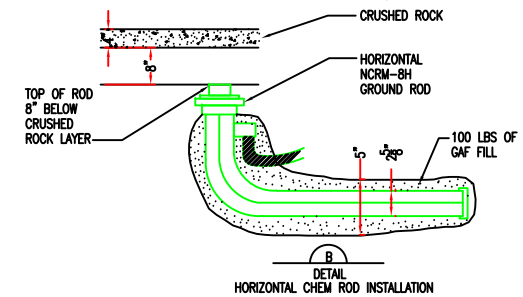
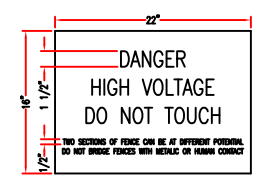
Reiterated by reference in a certain deed to said land adjoining on the East recorded: August 18, 1975, Volume 605 of Records, Page 395, as Document No. 1439706.

Appendix B: Background Information



- NOTES:**
1. ALL GROUND CONDUCTORS SHALL BE #4/0 AWG. BARE, STRANDED ANNEALED COPPER CONDUCTOR.
 2. GROUND CONDUCTOR SHALL BE BURIED 1'-6" BELOW GRADE.
 3. IN GENERATOR AREA, EVERY 3RD FENCE POST SHALL BE GROUNDED TO THE GROUND GRID WITH INTERVALS NOT EXCEEDING 40 FEET.
 4. CONTRACTOR SHALL FURNISH & INSTALL WARNING SIGNS AT EACH FENCE ISOLATION JOINT. THE WARNING SIGNS SHALL BE 22"x16" AND HAVE 1 1/2" BLACK CHARACTERS WITH YELLOW BACKGROUND. SEE DETAIL "A" FOR LAYOUT.
 5. LAY CRUSHED ROCK, TO EXTEND 6'-0" BEYOND FENCE.
 6. LAY 3/4" CRUSHED ROCK, 4" THICK IN TURBINE GENERATOR AREA EXCEPT ROADS & DITCHES.
 7. FOR GENERATOR AREA GROUNDING DETAIL, REFER TO DWG. NO. E201.
 8. REFER TO E201 SHEET 1 FOR DETAILS.
 9. TANK GROUNDING CONNECTION LOCATIONS SHALL BE LOCATED BY TANK VENDOR.

- LEGEND:**
- ⊙ CHEM GROUND ROD, 2 5/8" DIAMETER, 8 FT. LONG, HORIZONTAL, LIGHTNING ELIMINATORS CAT NO. NCRM-BH. SEE DETAIL B. INSTALL WITH GAF (GROUND AUGMENTATION FILL).
 - EXOTHERMIC PROCESS (CADWELDED) CONNECTION
 - BC BOLTED TYPE CONNECTION
 - ⊠ TRUCK GROUNDING STATION



SWITCHYARD GROUNDING SYSTEM SHALL BE SAME AS GENERATOR AREA (SWITCHYARD AREA GROUNDING BY OTHERS)

APPROVED FOR CONSTRUCTION

AGRA Simons
POWER PLANT ENGINEERING
POWER PLANT SYSTEMS DEPARTMENT

PROJECT: G504A
FILE: P:\CAR\EL\511-0002_4000_01.DWG

SCALE: 1"=30'-0"

SITE GROUNDING
FRAME 7FA SIMPLE CYCLE POWER ISLAND

ROCKGEN II ENERGY CENTER-CHRISTIANA SITE

SKYGEN

511A0002 E200

DATE: 11/20/20

REV: 1

REV: 2

REV.	SYMBOLS	DATE	BY	CHKD.	APP'D.	DESCRIPTION
0		11/20/20	RCD	PYS	JCD	ISSUED FOR CONSTRUCTION
1						
2						

4a. Potential Contamination Sources

Is the well located in floodplain ?

Comment:

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 07-19-2001

Created by: WELL CONST LOAD

Updated On: 07-24-2001

Updated by: WELL PROCESS

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				KS121		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A	
Property Owner ROCK GEN ENERGY LLC					Phone #		1. Well Location				Fire # (if avail.)
Mailing Address 650 DUNDEE RD #350					City NORTHBROOK		State IL		Zip Code 60062		Town of CHRISTIANA
County Dane					Co. Permit #		Notification #		Completed 04-09-2001		Street Address or Road Name and Number ENTER OFF OF CLEAR VIEW RD
Well Constructor (Business Name) C T W CORP					Lic. # 364		Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD) °N °W		Method Code GPS008
Address 21500 W GOOD HOPE RD LANNON WI 53046-9720					Well Plan Approval #		Approval Date (mm-dd-yyyy) 01-22-2001		SW NW Section Township Range or Govt Lot # 23 6 N 12 E		2. Well Type Replacement
Hicap Permanent Well # 3062					Common Well # 005		Specific Capacity 10		Reason for replaced or reconstructed well ? ORIGINAL TOO CLOSE TO FUE		
3. Well serves # of OFFICE TO POWER PLANT					Hicap Well ? No		Hicap Property ? Yes		Construction Type Drilled		
Heat Exchange ___ # of drillholes					Hicap Potable ?						
4. Potential Contamination Sources - ON REVERSE SIDE											
5. Drillhole Dimensions and Construction Method						8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			From (ft.)		To (ft.)
Dia. (in.)		From (ft.)	To (ft.)	Upper Enlarged Drillhole		Lower Open Bedrock		T	H	L	N
10		Surface	100	Rotary - Mud Circulation				-	-	-	-
6		100	215	<u>Yes</u> Rotary - Air		<u>No</u>		-	-	-	-
				Rotary - Air & Foam				G	-	-	-
				Drill-Through Casing Hammer							
				Reverse Rotary							
				Cable-tool Bit ___in. dia...							
				Dual Rotary							
				Temp. Outer Casing ___in. dia							
				Removed? ___depth ft. (If NO explain on back side)							
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is		
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)		To (ft.)		59.5 ft. below ground surface		
6		CASING, STEEL, 20.9# A53B, NKK, WELDED			Surface		100		24 in. above grade		
Dia. (in.)		Screen type, material & slot size			From (ft.)		To (ft.)		Developed ? Yes		
									Disinfected ? Yes		
									Capped ? Yes		
7. Grout or Other Sealing Material						10. Pump Test			12. Notified Owner of need to fill & seal ?		
Method TREMIE PUMPED						Pumping level 67 ft. below surface			Filled & Sealed Well(s) as needed? No		
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement		BUT WE WILL			
CEMENT GROUT		Surface		100		87 S					
13. Constructor / Supervisory Driller						Lic #		Date Signed			
WAC								05-02-2001			
Drill Rig Operator						Lic or Reg #		Date Signed			
CGM								05-17-2001			

4a. Potential Contamination Sources

Is the well located in floodplain ?

Comment:

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 07-19-2001

Created by: WELL CONST LOAD

Updated On: 07-24-2001

Updated by: WELL PROCESS

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				KS122		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A			
Property Owner ROCK GEN ENERGY LLC					Phone #		1. Well Location				Fire # (if avail.)		
Mailing Address 650 DUNDEE RD #350							Town of CHRISTIANA						
City NORTHBROOK			State IL	Zip Code 60062		Street Address or Road Name and Number ENTER OFF OF CLEAR VIEW RD							
County Dane	Co. Permit #	Notification #		Completed		Subdivision Name			Lot #	Block #			
Well Constructor (Business Name) C T W CORP					Lic. # 364	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)		Method Code			
Address 21500 W GOOD HOPE RD LANNON WI 53046-9720					Well Plan Approval #		°N °W		GPS008				
					Approval Date (mm-dd-yyyy) 01-22-2001		SW	NW	Section	Township	Range		
Hicap Permanent Well # 3061		Common Well # 004		Specific Capacity 8.5		or Govt Lot # 23		6 N	12 E				
3. Well serves # of POWER PLANT					Hicap Well ? Yes		2. Well Type Replacement						
Heat Exchange ___ # of drillholes					Hicap Property ? Yes		of previous unique well # KS116 constructed in 2000						
					Hicap Potable ?		Reason for replaced or reconstructed well ? U						
							Construction Type Drilled						
4. Potential Contamination Sources - ON REVERSE SIDE													
5. Drillhole Dimensions and Construction Method						8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			From (ft.)	To (ft.)			
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole		Lower Open Bedrock	T	H	L	N				
24	Surface	70	Rotary - Mud Circulation							Surface	57		
18	70	514	<u>Yes</u> Rotary - Air		<u>No</u>				N	H	57	97	
12	514	982	<u>Yes</u> Rotary - Air & Foam		<u>No</u>					L	H	97	220
			Drill-Through Casing Hammer										
			Reverse Rotary										
			Cable-tool Bit ___in. dia...										
			Dual Rotary										
			Temp. Outer Casing ___in. dia										
			Removed? ___depth ft. (If NO explain on back side)										
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is				
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	110 ft. below ground surface			24 in. above grade				
18	CASING STEEL 70.6# A53B NKK WELDED			Surface	70	10. Pump Test			Developed ? Yes				
12	CASING STEEL 49.5# A53B WELDED			0	514	Pumping level 190 ft. below surface			Disinfected ? Yes				
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping at 680 GP M for 24 Hrs.			Capped ?				
						Pumping Method ?							
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?							
Method GROUT SHOE													
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		Filled & Sealed Well(s) as needed? Yes							
CEMENT GROUT		Surface	514	456 S									
						13. Constructor / Supervisory Driller		Lic #	Date Signed				
						WAC			05-25-2001				
						Drill Rig Operator		Lic or Reg #	Date Signed				
						CGM			06-05-2001				

4a. Potential Contamination Sources

Is the well located in floodplain ?

Comment:

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Created On: 07-19-2001

Created by: WELL CONST LOAD

Updated On: 07-24-2001

Updated by: WELL PROCESS

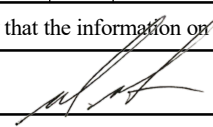
Appendix C: Soil Boring and Well Documentation

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number MW-01	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade		Date Drilling Started 4/22/2021		Date Drilling Completed 4/23/2021	
WI Unique Well No. VU630		DNR Well ID No.		Common Well Name MW-01	
Final Static Water Level 885.9 Feet MSL		Surface Elevation 928.3 Feet MSL		Borehole Diameter 8.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357606 N, 2222754 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 37.898"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 59.606"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 CS	54 24		3	SILT (ML), trace to few fine sand, cohesive, non-plastic, 10YR 2/2 very dark brown. CLAYEY SILT (ML), trace fine sand, occasional fine gravel, cohesive, non-plastic, 2 pieces medium gravel at base of run.	ML									Top 6" soil removed prior to setting mud tub and drilling. Drill 8" casing to rock, then advance with 6" casing and 4" core barrel.
2 CS	60 24		6	Same as above, occasional fine gravel.	ML									
3 CS	36 36		9	SANDY LEAN CLAY (CL), 10YR 4/3 brown, occasional large cobble size piece of dolomite and broken rock.	CL									Driller notes change in drilling at 8.5 feet.
4 CS	84 24		12	SILTY LEAN CLAY (CL-ML), trace to few fine sand, few to little fine gravel, mixed lithology, occasional pieces of weathered macrocrystalline rock, plastic, 10YR 4/2 dark grayish brown, generally soft, hard in places.	CL-ML									Driller measurement of depth to rock.
			15	CLAYEY SAND (SC), some fines, few to little fine to medium gravel, mixed lithology, cohesive, plastic, 10YR 4/3 brown.	SC									
			18	DOLOMITE, mostly 10YR 6/4 light yellowish brown, some 10YR 6/1 gray, occasional quartz (?) inclusions, possible brachiopod cast.										
5 CS	120 36		21	Same as above, poor recovery, but recovered pieces generally larger than the previous run; one brachiopod ~3/4" size (possible Si replacement), zone in middle of recovered material appears to be a mineralized fracture (or may be a layer of fossil shells).										Driller notes soft drilling from 22 to 23 feet.
			24											
			27											Driller notes soft drilling from 27 to 28 feet.
			30											

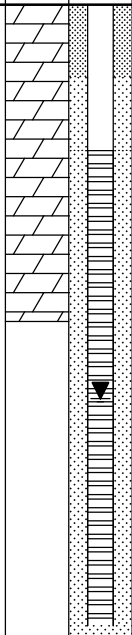
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Boring Number **MW-01**

Use only as an attachment to Form 4400-122.

Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
6 CS	120 36		33	Same as above (dolomite), but almost entirely 10YR 6/4 light yellowish brown. No recovery. No recovery.									Driller notes soft drilling from 30 to 32 feet while installing 8" casing (see notes below).	
7 NR	60 0		36											
			39											
			42										Driller notes very soft drilling from 38 to 40 feet (6" casing advances with very little resistance). Drilled 6" casing to 45 ft, pulled back to allow drilling water out of casing and to check static WL. WL changing very slowly; 6" casing becomes sandlocked when attempting to continue drilling. Drillers advance 8" casing to 43 ft to free 6" casing. Baroid Quik Gel added to mud to remove sand while freeing 6" casing. Used ~1,500 gal water while drilling and freeing casing; about 500 gal return water. About 1/2 of water used and 1/2 of return in last 10 ft while freeing casing and drilling to 50 ft. Lots of sand/silt/clay sized material in return (mud tub) after freeing 4" core tube and 6" casing (mud tub approx. 1/2 full).	
			45											
8 NR	60 0		48											
				End of boring at 50 feet.										

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

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number MW-02	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade			Date Drilling Started 4/26/2021		Date Drilling Completed 4/29/2021	Drilling Method rotasonic
WI Unique Well No. VU631	DNR Well ID No.	Common Well Name MW-02	Final Static Water Level 884.8 Feet MSL	Surface Elevation 938.9 Feet MSL		Borehole Diameter 8.0 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357021 N, 2222798 E <input checked="" type="checkbox"/> C/N			Lat 42° 58' 32.118"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E			Long 89° 2' 59.107"			
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village Town of Christiana		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 CS	30 30			SILT (ML) , low plasticity, very dark gray (7.5YR 3/1), no odor, moist, very stiff.	ML CL				2.5 >4.5						Top 6" removed with shovel 8" temporary steel casing initially placed to 5 ft bgs. Borehole later overdrilled with 8" casing to 60 ft bgs (see explanation at bottom of boring log)
2 CS	18 6		3	SANDY LEAN CLAY (CL) , low plasticity clay, some sand, little fine to coarse subrounded gravel, brown (7.5YR 4/3), no odor, moist, hard.											
3 CS	60 12		6	DOLOMITE , mostly pale brown (10YR 6/3) with some reddish brown (5YR 5/3). As above, very pale brown (10YR 7/3), possible fossil burrows, some dark mineralization on rock surfaces.											
4 CS	60 12		9												
5 CS	60 30		15												
6 CS	60 36		21												
7 CS	60 42		24	As above, some sandy dolomite and/or sandy pockets in dolomite. Fossils including brachiopods noted.											Driller noted easier drilling for 24-29 ft bgs interval.
8	60		30	Dolomite, no sand observed, gray (10YR 5/1), brachiopod mold present.											

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

Signature *Jydia Amos* Firm **TRC Environmental Corporation** Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number MW-03	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade		Date Drilling Started 5/3/2021		Date Drilling Completed 5/4/2021	
WI Unique Well No. VU632		DNR Well ID No.		Common Well Name MW-03	
Final Static Water Level 884.1 Feet MSL		Surface Elevation 939.5 Feet MSL		Borehole Diameter 6.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356876 N, 2223299 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 30.629"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 52.381"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments				
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200					
1 CS	54 48			SILT (ML) , dark brown (7.5YR 3/2), no odor, dry, noncohesive.	ML													
			3	LEAN CLAY (CL) , low plasticity, dark yellowish brown (10YR 4/4), no odor, moist, very stiff.	CL													
				As above, very soft from 4.5-5 ft bgs.														
2 CS	12 6		6	SILTY SAND WITH GRAVEL (SM) , mostly sand, little silt, little fine to coarse angular gravel (some red, some tan), two pieces of plastic (FILL).	SM													
3 CS	24																	
4 CS	12 60		9	DOLOMITE , light brownish gray (10YR 6/2), no odor, some pieces with darker coloration on one or more faces (staining or mineralization), some trace fossils.														
	24																	
5 CS	60 24		12	Color change to light yellowish brown (10YR 6/4), black speckles/dendritic mineralization on some rock faces.														
			15															
6 CS	60 18		18	As above, occasional brachiopod fossil.														
			21															
7 CS	60 24		24															
			27															
8 CS	60 24		30	Color change to gray (10YR 5/1), fossils noted.														


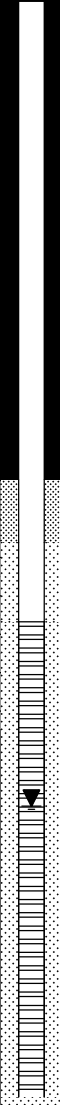

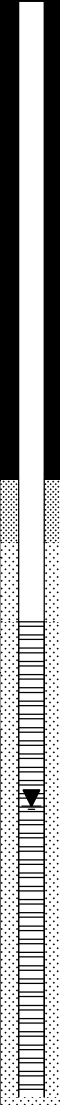

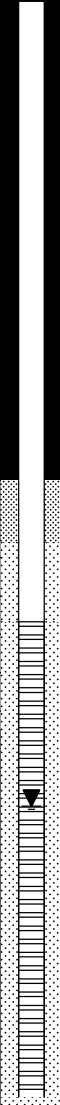

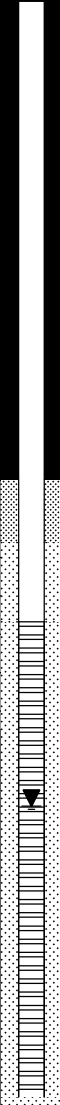

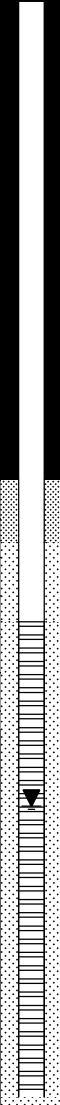

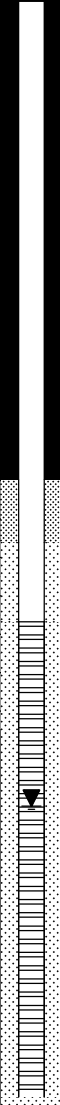

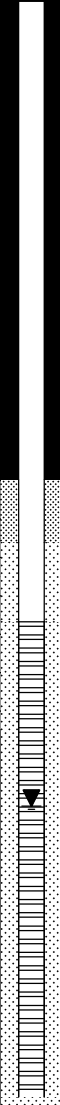
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Lidia Amos* Firm **TRC Environmental Corporation** Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

Boring Number **MW-03**

Use only as an attachment to Form 4400-122.

Page **2** of **2**

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
9 CS	60 30		33	Color change to light brownish gray (10YR 6/2) from approximately 30-32 ft bgs and 32.5-33 ft bgs. Some rock pieces appear to have high density of fossil shell fragments.										Driller noted softness around 36-36.5 ft bgs.
			36	Color change to pale brown (10YR 6/3) with brownish yellow (10YR 6/8). Around 36 ft bgs, rock pieces are smaller (~1" or less). 3" chunk of clay noted.										
10 CS	60 30		39	Color change to light brownish gray (10YR 6/2), occasional trace fossils and shells.										
			42											
11 CS	60 30		45											
			48											
12 CS	60 24		51											
			54	No recovery.										
13 NR	60 0		57	No recovery.										Driller noted very soft.
			60	No recovery.										
14 NR	60 0		63	No recovery.										
			63	No recovery.										
15 NR	24 0			End of boring at 65 ft bgs.										

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number MW-04	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade		Date Drilling Started 5/4/2021		Date Drilling Completed 5/6/2021	
WI Unique Well No. VU633		DNR Well ID No.		Common Well Name MW-04	
Final Static Water Level 884.8 Feet MSL		Surface Elevation 940.8 Feet MSL		Borehole Diameter 6.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357021 N, 2222923 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 32.100"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 57.423"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 CS	54 18		3	POORLY GRADED GRAVEL WITH SAND (GP) , mostly fine to coarse subangular gravel, some fine- to coarse-grained sand, few silt, few cobbles, brownish yellow (10YR 6/6), no odor, moist, loose (FILL).										Top 6" removed with shovel.
2 CS	36 18		6		GP									
3 CS	60 24		9											
4 CS	60 9		15	DOLOMITE , pale brown (10YR 6/3), orange-ish fossil burrows, some dark dendritic mineralization along fractures, occasional small vugs (<1 cm).										8" temporary casing installed to 14 ft bgs, bentonite chips used to fill gap between casing and soil.
5 CS	60 24		18											
6 CS	60 30		24	As above, shell fossils and fossil burrows (although fewer than in 13-18 ft bgs interval), some voids in fossil spaces.										
7 CS	60 30		30	Color change to dark gray (10YR 6/1) from 28-29.5 ft bgs.										Driller noted lost circulation of

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

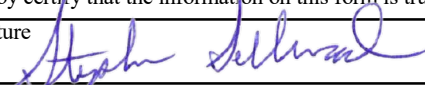
Signature *Lydia Ammer* Firm **TRC Environmental Corporation** Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number MW-05	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade		Date Drilling Started 5/6/2021		Date Drilling Completed 5/7/2021	
WI Unique Well No. VU634		DNR Well ID No.		Common Well Name MW-05	
Final Static Water Level 884.5 Feet MSL		Surface Elevation 942.9 Feet MSL		Borehole Diameter 6.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357112 N, 2223295 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 32.956"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 52.396"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 CS	54 54		3	SILT (ML), dark brown (7.5YR 3/2).	ML									Top 6" removed with shovel.
				LEAN CLAY (CL), brown (7.5YR 4/3).	CL									
2 CS	60 36		6											
3 CS	36 24		9	SILTY GRAVEL WITH SAND (GM) (weathered dolomite).	GM									Bedrock at 10 ft bgs, set 8" casing to 10.5 ft bgs.
				DOLOMITE, light brownish gray (10YR 6/2).										
4 CS	60 20		15											
5 CS	60 33		18											
6 CS	60 34		24											
7 CS	60 34		30											

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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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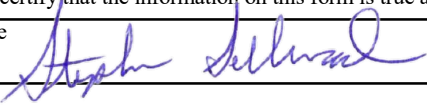
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number MW-06	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade		Date Drilling Started 5/10/2021		Date Drilling Completed 5/11/2021	
WI Unique Well No. VU635		DNR Well ID No.		Common Well Name MW-06	
Final Static Water Level 884.4 Feet MSL		Surface Elevation 939.4 Feet MSL		Borehole Diameter 6.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356743 N, 2223117 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 29.337"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 54.851"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 CS	54 54		3	SILT (ML), very dark brown (7.5YR 2.5/2).	ML									
				LEAN CLAY (CL), brown (7.5YR 4/2).	CL									
2 CS	36 24		6	SILTY GRAVEL WITH SAND (GM) (weathered dolomite). DOLOMITE, very pale brown (10YR 7/3).	GM									Bedrock at 5 ft bgs, set 8" casing to 6 ft bgs.
3 CS	12 6		9											
4 CS	60 18		12											
5 CS	60 24		15											
6 CS	60 22		21											
7 CS	60 24		24											
8	60		30											

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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number MW-07	
Boring Drilled By: Name of crew chief (first, last) and Firm Travis Whittaker Cascade			Date Drilling Started 5/11/2021		Date Drilling Completed 5/12/2021	
WI Unique Well No. VU636		DNR Well ID No.	Common Well Name MW-07	Final Static Water Level 884.2 Feet MSL		Surface Elevation 939.1 Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 356288 N, 2223322 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 24.816"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E
SW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 52.162"		Feet <input type="checkbox"/> S		Feet <input type="checkbox"/> W
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village Town of Christiana		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 CS	54		3	SILT (ML) , dark brown (7.5YR 3/2), no odor, moist, stiff.	ML									
	54			LEAN CLAY (CL) , brown (7.5YR 4/3), no odor, moist, stiff.	CL									
2 CS	12		6	SILTY SAND WITH GRAVEL (SM) , mostly fine- to coarse-grained poorly graded sand, little fine to coarse subrounded gravel, light yellowish brown (10YR 6/4), moist, loose.	SM									
3 CS	48													
4 CS	60		12	LEAN CLAY (CL) , ~2" brown clay with few subrounded fine gravel	CL									
5 CS	12			CLAYEY SAND (SC) , mostly fine- to medium-grained sand, few fine to coarse gravel, few rounded cobbles, yellowish brown (10YR 5/4), no odor, moist, loose.	SC									
6 CS	60		18	SILTY SAND (SM) , mostly sand, little fine to coarse subangular gravel, little subangular cobbles, light gray (10YR 7/2) (possibly weathered dolomite).	SM									
7 CS	30			DOLOMITE , light gray (10YR 7/2).										
8 CS	60		24	3" grayish brown (10YR 5/2) dolomite around 26 ft bgs.										
9 CS	30													
9 CS	60		30											

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

Signature *Jydia Ames* Firm **TRC Environmental Corporation** Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

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Boring Number **MW-07**

Use only as an attachment to Form 4400-122.

Page 2 of 2

Sample		Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length Att. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
CS	30													
			33											
10 CS	60 36		36											
			39											
11 CS	60 15		42											
			45	Color change to yellow (10YR 7/6) to brownish yellow (10YR 6/6).										
			48	A few pieces with many hollow/open fossil burrows.										
12 CS	60 36		51											
			54	CLAY , brown (10YR 4/3), very hard.	CL				>4.5					
14 NR	60 0		57	No recovery.										
			60	No recovery.										
15 NR	60 0		63	No recovery.										
			66	No recovery.										
16 NR	72 0		69	No recovery.										
				End of boring at 70 ft bgs.										

Driller noted approximately 1 ft clay from 53-54 ft bgs. Drilling mud used from 54-70 ft bgs to prevent casing from getting stuck in this interval (presumed sandstone), but borehole flushed with clean water after drilling complete.

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

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number SB-01		
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical			Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 2.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357618 N, 2222696 E <input checked="" type="checkbox"/> C/N			Lat 42° 58' 38.021"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E			Long 89° 3' 0.379"				
Facility ID		County Dane		County Code 13		Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		0-1	GRAVEL IN SILTY LEAN CLAY , medium gravel in silty lean clay matrix, 10YR 4/1 dark gray. (FILL)										
			1-2	SILTY LEAN CLAY (CL) , trace to few fine to medium sand, cohesive, plastic, 10YR 4/2 dark grayish brown, medium stiff.	CL-ML									
2 GP	2 1		4	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, some fines and fine sand size particles, 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
				End of boring at 4.2 feet. (Refusal)										

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

Signature	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-02	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357611 N, 2222706 E <input checked="" type="checkbox"/> C/N		Local Grid Location	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Lat 42° 58' 37.950"		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long 89° 3' 0.246"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 42		1	GRAVEL IN SILTY LEAN CLAY , medium gravel in silty lean clay matrix, little to some fine sand, 10YR 4/2 dark grayish brown. (FILL)										
			2	CLAYEY SILT (CL-ML) , trace to few fine sand, occasional coarse sand and large gravel, cohesive, non-plastic to slightly plastic, 10YR 3/1 very dark gray.	CL-ML									
2 GP	12 12		4	SANDY LEAN CLAY (CL) , few to little fine to medium sand, cohesive, slightly plastic, 10YR 4/3 brown.	CL									
			5	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, some fines and fine sand size particles, 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
				End of boring at 5 feet. (Refusal)										

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

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-03	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation 939.0 Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357206 N, 2222870 E <input checked="" type="checkbox"/> C/N		Local Grid Location	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Lat 42° 58' 33.936"		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long 89° 2' 58.108"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1	GRAVEL IN SILTY SAND , gray gravel/broken rock in silty sand matrix, about 50/50 split gravel to silty sand, silty sand has some fines, 10YR 5/3 brown. (FILL)										
			2											
			3											
			4	SILTY GRAVEL (GM) , gravel sized pieces of broken rock in sandy silt matrix, dolomite fragments, 2.5Y 7/4 pale brown. (Cobble?)	GM									
2 GP	2 2		4.2	SILTY LEAN CLAY (CL-ML) , trace to few fine to medium sand, large pieces of dolomite gravel, cohesive, slightly plastic, 10YR 4/2 dark grayish brown, broken rock in base of tube. End of boring at 4.2 feet. (Refusal)	CL-ML									

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

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-04	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation 937.0 Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357186 N, 2222872 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 33.740"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 58.074"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1 2 3 4	GRAVEL IN SILTY SAND , gray gravel/broken rock in silty sand matrix, about 50/50 split gravel and sand to silt, 10YR 5/3 brown. (FILL) Grades to 2.5Y 7/4 pale brown, more uniform color, larger rock fragments, more similar color to matrix.									Two attempts, 1 ft offset, 1st attempt only 1 foot recovery.	
				SILTY LEAN CLAY (CL) , trace fine sand, cohesive, plastic, 10YR 4/2 dark grayish brown, stiff.	CL-ML									
				End of boring at 4 feet. (Refusal)										

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

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-05	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357170 N, 2222855 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 33.581"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 58.309"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 42		1 2 3	GRAVEL IN SILTY SAND , gray gravel/broken rock in silty sand matrix, about 50/50 split gravel and sand to silt, 10YR 5/3 brown. (FILL)										
				Grades to 2.5Y 7/4 pale brown, more uniform color, larger rock fragments, more similar color to matrix.										
2 GP	14 8		4 5	SANDY LEAN CLAY (CL) , some fine sand, occasional piece of medium gravel-sized broken rock, cohesive, slightly plastic (without broken rock), 10YR 3/2 very dark grayish brown.	CL									
				End of boring at 5.2 feet. (Refusal)										

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

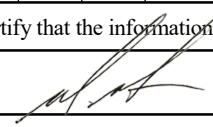
Signature	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-06	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357067 N, 2222801 E <input checked="" type="checkbox"/> C/N		Local Grid Location	
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E		Lat 42° 58' 32.564"		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long 89° 2' 59.054"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	18 14		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, occasional fine gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									Two attempts, refusal at 1.5 feet at both.
				SANDY LEAN CLAY (CL) , little fine sand, plastic, 10YR 3/3 dark brown, broken rock in spoon tip, 2.5Y 7/4 pale brown. End of boring at 1.5 feet. (Refusal)	CL									

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

Signature  Firm **TRC Environmental Corporation** Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

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

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-07	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation 942.0 Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356855 N, 2222957 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 30.458"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 56.982"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	42 36		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, occasional fine gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									
			2	SANDY LEAN CLAY (CL) , few to little sand, cohesive, slightly plastic, 10YR 3/3 dark brown grading to 10YR 4/3 brown. Sand content increases near base (little to some sand).	CL									
			3	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
				End of boring at 3.5 feet. (Refusal)										

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

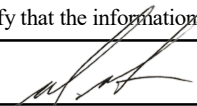
Signature	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-08	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356942 N, 2223070 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 31.301"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 55.447"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, occasional fine gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									Gradational contact.
			2	SANDY LEAN CLAY (CL) , little to some fine sand, sand content increases with depth, cohesive, slightly plastic, grades from 10YR 3/3 dark brown to 10YR 4/3 brown.	CL									
2 GP	18 12		4	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
			5	End of boring at 5.5 feet. (Refusal)										

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

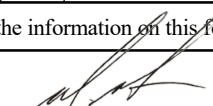
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-09	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357076 N, 2223124 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 32.620"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 54.707"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 30		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, occasional fine gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									Gradational contact.
			2	SANDY LEAN CLAY (CL) , little to some fine sand, sand content increases with depth, cohesive, slightly plastic, grades from 10YR 3/3 dark brown to 10YR 4/3 brown.	CL									
2 GP	24 18		4	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
			6	End of boring at 6 feet. (Refusal)										

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

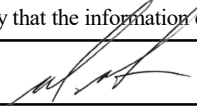
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-10	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
Drilling Method HA/dual tube DPT		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane 357164 N, 2223190 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 33.481"		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 53.810"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	45 45		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, occasional fine gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									Geomembrane visible on pipe side of hole; machined edge visible.
			2	POORLY GRADED GRAVEL (GP) , rounded medium gravel (~1" stone), mixed with silty soil, 10YR 2/2 very dark brown. (Septic system gravel bed)	GP									
			3	WELL GRADED SAND (SW) , fine to coarse sand, 10YR 5/3 brown. (Septic system base)	SW									
2 GP	48 24		4	SILTY LEAN CLAY (CL-ML) , trace to few fine sand, cohesive, plastic, 10YR 3/3 dark brown.	CL-ML									
			6	SILTY SAND WITH BROKEN ROCK , little gravel-sized broken rock (dolomite), 10YR 5/3 brown.	SM									
3 GP	18 8		8	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
			9.5	End of boring at 9.5 feet. (Refusal)										

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

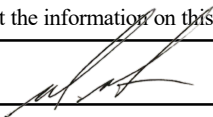
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-10X	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357161 N, 2223191 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 33.449"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 53.788"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 30		1	TOPSOIL , silt, trace to few fine sand, occasional fine gravel, 1 piece medium gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML								Boring not sampled, location too far from septic pipe. Poor recovery, changes in soil are very estimated.	
			2	WELL GRADED SAND (SW) , fine to coarse sand, 10YR 5/3 brown. (Septic system base)	SW									
			3	SANDY LEAN CLAY (CL) , little to some fine sand, cohesive, slightly plastic, grades from 10YR 3/3 dark brown to 10YR 4/3 brown, sand content increases with depth.	CL									
2 GP	48 30		4											
			5											
3 GP	18 12		6	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
			7											
			8	Last sample tube mostly broken rock.										
			9	End of boring at 9.5 feet. (Refusal)										

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

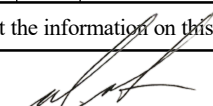
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-11	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357151 N, 2223181 E <input checked="" type="checkbox"/> C/N		Local Grid Location	
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E		Lat 42° 58' 33.355"		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long 89° 2' 53.922"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 30		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, occasional fine gravel, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									
			2	WELL GRADED SAND (SW) , fine to coarse sand, 10YR 5/3 brown. (Septic system base)	SW									
			3	SANDY LEAN CLAY (CL) , little to some fine sand, cohesive, slightly plastic, 10YR 3/3 dark brown, sand content increases with depth.	CL									
2 GP	48 30		4	SILTY LEAN CLAY (CL-ML) , trace fine sand, cohesive, plastic, 10YR 4/3 brown.	CL-ML									
			5	SILTY SAND WITH BROKEN ROCK , little gravel-sized broken rock (dolomite), 10YR 5/3 brown.	SM									
3 GP	21 12		7	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
			8	Last sample tube mostly broken rock.										
			9	End of boring at 9.75 feet. (Refusal)										

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

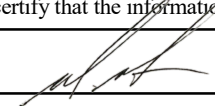
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-12	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
Drilling Method dual tube DPT		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane 357162 N, 2223169 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 33.465"		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 54.088"		<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 30		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									
			2	WELL GRADED SAND (SW) , fine to coarse sand, 10YR 5/3 brown. (Septic system base)	SW									
2 GP	48 30		3	SANDY LEAN CLAY (CL) , little to some fine sand, cohesive, slightly plastic, 10YR 3/3 dark brown.	CL									
			4	SILTY LEAN CLAY (CL-ML) , trace fine sand, cohesive, plastic, 10YR 4/3 brown.	CL-ML									
3 GP	12 12		6	SILTY SAND WITH BROKEN ROCK , little gravel-sized broken rock (dolomite), 10YR 5/3 brown.	SM									
			8	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown, more uniform color (rock and matrix are similar color). (Weathered dolomite) Last 6" of recovery is mostly broken rock. End of boring at 9 feet. (Refusal)	GM									

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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-13	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
Drilling Method HA/dual tube DPT		WI Unique Well No.		DNR Well ID No.	
Common Well Name		Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Borehole Diameter 2.0 inches		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		Local Grid Location	
State Plane 357145 N, 2223163 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 33.300"		<input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 54.178"		<input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County Dane	County Code 13	Civil Town/City/ or Village Town of Christiana
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

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	18 18		1	SILT TOPSOIL (ML) , silt, trace to few fine sand, cohesive, non-plastic, 10YR 2/2 very dark brown.	ML									
2 GP	30 18		2	POORLY GRADED GRAVEL (GP) , rounded medium gravel (~1" stone), mixed with silty soil, 10YR 2/2 very dark brown. (Septic system gravel bed)	GP									Geomembrane layer.
			3	WELL GRADED SAND (SW) , fine to coarse sand, 10YR 5/3 brown. (Septic system base)	SW									
			4	SANDY LEAN CLAY (CL) , few to little fine sand, cohesive, slightly plastic, 10YR 3/3 dark brown.	CL									
3 GP	48 24		5	SILTY LEAN CLAY (CL-ML) , trace fine sand, cohesive, plastic, 10YR 3/3 dark brown.	CL-ML									
			6											
			7	SILTY SAND WITH BROKEN ROCK , little gravel-sized broken rock (dolomite), 10YR 5/3 brown.	SM									
4 GP	36 24		8	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
			9											
			10											
			11	End of boring at 11 feet. (Refusal)										

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

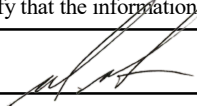
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-14	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/20/2021		Date Drilling Completed 4/20/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357008 N, 2222985 E <input checked="" type="checkbox"/> C/N		Local Grid Location	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Lat 42° 58' 31.964"		<input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Long 89° 2' 56.590"		Feet <input type="checkbox"/> S		Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 18		1	SILTY SAND WITH BROKEN ROCK, little gravel-sized broken rock (dolomite), 10YR 5/3 brown.	SM									
				SILTY GRAVEL (GM), broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), more uniform color, 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
2 GP	6 2		4	End of boring at 4.5 feet. (Refusal)										

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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-15	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/21/2021		Date Drilling Completed 4/21/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation 940.8 Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357109 N, 2222926 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 32.965"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E		Long 89° 2' 57.372"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	


Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1	SILTY SAND WITH BROKEN ROCK , little gravel-sized broken rock (dolomite), SM is some fines, fine to medium sand, 10YR 5/3 brown.	SM									
			3	SILTY GRAVEL (GM) , broken rock in a sandy silt matrix, few to some fines and fine sand size particles (variable), more uniform color, 2.5Y 7/4 pale brown. (Weathered dolomite)	GM									
2 GP	12 6		5	End of boring at 5 feet. (Refusal)										

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

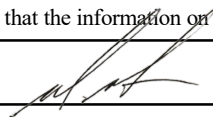
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-16	
Boring Drilled By: Name of crew chief (first, last) and Firm Patrick Goetz Direct Push Analytical		Date Drilling Started 4/21/2021		Date Drilling Completed 4/21/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation 940.8 Feet MSL		Borehole Diameter 2.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356980 N, 2222921 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 31.699"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 57.455"		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24		1 2 3 4	SILTY SAND WITH BROKEN ROCK , little gravel-sized broken rock (dolomite), silty sand is fine to medium sand, some fines, 10YR 5/3 brown.	SM									
2 GP	4			End of boring at 4.3 feet. (Refusal)										


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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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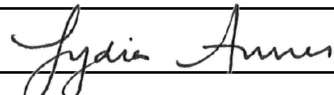
Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-17	
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC		Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357280 N, 2222785 E <input checked="" type="checkbox"/> C/N		Local Grid Location	
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E		Lat 42° 58' 34.675"		<input type="checkbox"/> N <input type="checkbox"/> E	
		Long 89° 2' 59.240"		<input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County Dane	County Code 13	Civil Town/City/ or Village Town of Christiana
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	18 18		1	LEAN CLAY (CL) , dark brown (7.5YR 3/2), no odor, moist, mostly cohesive. As above, dark brown (7.5YR 3/2) and brown (7.5YR 4/4), cohesive.	CL									Hand augered to 6", hit multiple rocks. Dug out rocks with shovel, then proceeded to hand auger to 1.5 ft bgs.
				End of boring at 1.5 ft bgs. (Refusal)										

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

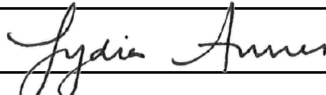
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number SB-18	
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC			Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter 8.0 inches	
			Final Static Water Level Feet MSL		Surface Elevation Feet MSL	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357163 N, 2222799 E <input checked="" type="checkbox"/> C/N			Lat 42° 58' 33.513"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E			Long 89° 2' 59.061"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane	County Code 13		Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	12 12		1	LEAN CLAY (CL) , low plasticity, dark brown (7.5YR 3/2) and brown (7.5YR 4/4), no odor, moist, mostly cohesive. Refusal at 1 ft bgs on rocks at least 4" diameter. Tried shoveling to clear rocks and was not able to with ~8" diameter shovel hole.	CL									

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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number SB-19		
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC			Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 3.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357143 N, 2222772 E <input checked="" type="checkbox"/> C/N			Lat 42° 58' 33.322"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E			Long 89° 2' 59.427"				
Facility ID		County Dane		County Code 13		Civil Town/City/ or Village Town of Christiana	



Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	21 21		1	SILT (ML) , dark brown (7.5YR 3/2), no odor, moist, crumbly (not cohesive).	ML									Hand augered to 1.25 ft bgs, hit rock. Shoveled rock out, continued hand augering.
				End of boring at 1.75 ft bgs (Refusal)										

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

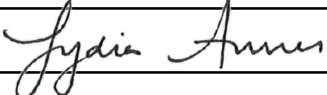
Signature <i>Lydia Auner</i>	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-20	
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC		Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357050 N, 2222775 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 32.400"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 59.408"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	24		1	SILT (ML) , low plasticity, dark brown (7.5YR 3/2), no odor, moist, crumbly (not cohesive).	ML									
	24		2	LEAN CLAY (CL) , low plasticity, brown (7.5YR 4/4), no odor, moist, cohesive. End of boring at 2 ft bgs.	CL									

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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-21	
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC		Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 8.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356934 N, 2222804 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 31.252"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 59.032"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	


Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	11 11			LEAN CLAY (CL) , low plasticity, dark brown (7.5YR 3/2), no odor, moist. LEAN CLAY (CL) , yellow (2.5Y 7/6) to brown (7.5YR 4/4), few coarse subangular gravel (possibly weathered bedrock). End of boring at 0.9 ft bgs, refusal on what appears to be bedrock or a rock >6" diameter with a flat top.	CL								Hit rocks at 0.75 ft bgs with ahnd auger, dug rocks out with shovel to 0.9 ft bgs.	

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

Signature *Lydia Auner* Firm **TRC Environmental Corporation** Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

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

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number SB-22		
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC			Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021		
WI Unique Well No.			DNR Well ID No.		Common Well Name		
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter 3.0 inches		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 356853 N, 2222807 E <input checked="" type="checkbox"/> C/N			Lat 42° 58' 30.449"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E			Long 89° 2' 59.003"				
Facility ID		County Dane		County Code 13		Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	24			SILT (ML) , low plasticity, dark brown (7.5YR 3/2), no odor, moist, crumbly.	ML									
	24		1	LEAN CLAY (CL) , low plasticity, dark yellowish brown (10YR 4/4), no odor, moist, cohesive.	CL									
			2	End of boring at 2 ft bgs.										

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

Signature <i>Lydia Auner</i>	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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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/Redevelopment Other

Facility/Project Name RockGen Energy Center			License/Permit/Monitoring Number		Boring Number SB-23	
Boring Drilled By: Name of crew chief (first, last) and Firm Steve Sellwood TRC			Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane 357727 N, 2222570 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 39.118"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 3' 2.065"		Feet <input type="checkbox"/> S		Feet <input type="checkbox"/> W
Facility ID		County Dane	County Code 13	Civil Town/City/ or Village Town of Christiana		


Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	24 24		0-1	LEAN CLAY (CL), low plasticity, brown (7.5YR 4/3), no odor, moist.	CL									
			1-2	Color change to strong brown (7.5YR 4/6).										
2 HA	21 21		2-3	SANDY LEAN CLAY (CL), mostly clay, some sand, strong brown (7.5YR 4/6), no odor, moist.	CL									
			3-3.75	SANDY LEAN CLAY WITH GRAVEL (CL), mostly clay, some sand, little gravel (sandstone), strong brown (7.5YR 4/6), no odor, moist. End of boring at 3.75 ft bgs (refusal).										

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

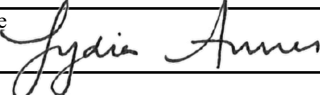
Signature <i>Lydia Amos</i>	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-24	
Boring Drilled By: Name of crew chief (first, last) and Firm Steve Sellwood TRC		Date Drilling Started 5/10/2021		Date Drilling Completed 5/10/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357723 N, 2222495 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 39.084"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 3' 3.070"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	24 24		1	LEAN CLAY (CL) , low plasticity, dark brown (7.5YR 3/2), no odor, moist.	CL									
2 HA	24 24		2											
			3	Color change to brown (7.5YR 4/4)										
			4	End of boring at 4 ft bgs.										




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

Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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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/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-25	
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC		Date Drilling Started 5/11/2021		Date Drilling Completed 5/11/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357685 N, 2222500 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 38.709"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 3' 3.009"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	24 24		1	LEAN CLAY (CL) , dark brown (7.5YR 3/2), no odor, moist, crumbly.	CL									Two attempts: refusal around 1 ft bgs on first attempt, moved ~2 ft away and started second borehole.
		2	Color change to dark brown (7.5YR 3/4), clumpy/cohesive.											
2 HA	24 24		3	SANDY LEAN CLAY (CL) , mostly clay, little sand, trace fine to coarse rounded gravel, dark brown (7.5YR 3/4), no odor, moist.	CL									
		4	POORLY GRADED SAND (SP) , fine- to medium-grained sand, light brown (7.5YR 6/4), no odor, moist, loose. End of boring at 4 ft bgs.	SP										


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

Signature <i>Lydia Auner</i>	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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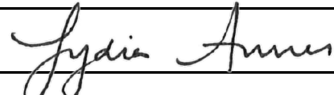
This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally 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/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number SB-26	
Boring Drilled By: Name of crew chief (first, last) and Firm Lydia Auner TRC		Date Drilling Started 5/11/2021		Date Drilling Completed 5/11/2021	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 3.0 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357679 N, 2222371 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 38.659"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 3' 4.738"			
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 HA	24 24		1 2	LEAN CLAY (CL), dark brown (7.5YR 3/2), no odor, moist, crumbly, roots present (up to 1" thick). At 1.75 ft bgs, as above with pockets of yellow (10YR 7/6) fine sand (possibly pieces of weathered rock/bedrock). End of boring at 2 ft bgs (Refusal)	CL								Three attempts: refusal around 0.75 ft in first hole (possibly tree root), refusal at 1.5 ft bgs on rocks in second hole, then moved about 4 ft away for third hole.	

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

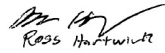
Signature 	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name RockGen Energy Center		License/Permit/Monitoring Number		Boring Number PZ-01	
Boring Drilled By: Name of crew chief (first, last) and Firm Adam Jochimson Cascade		Date Drilling Started 6/1/2021		Date Drilling Completed 6/9/2021	
WI Unique Well No. VU637		DNR Well ID No.		Common Well Name PZ-01	
Final Static Water Level Feet MSL		Surface Elevation 942.6 Feet MSL		Borehole Diameter 12.5 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane 357106 N, 2223286 E <input checked="" type="checkbox"/> C/N		Lat 42° 58' 32.895"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E	
NW 1/4 of NW 1/4 of Section 23 , T 6 N, R 12 E		Long 89° 2' 52.522"		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County Dane		County Code 13	
				Civil Town/City/ or Village Town of Christiana	


Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			5	SILT WITH GRAVEL (ML) , trace to few fine sand, cohesive, non-plastic, 10YR 2/2 very dark brown (TOPSOIL).	ML									12.5" diameter borehole drilled to 280 ft bgs, then permanent 6" casing set to 280 ft bgs, and 6" diameter borehole advanced from 280-303 ft bgs. Cuttings sampled periodically during drilling.
			5	GRAVELLY SILT (ML) , some fine angular gravel, cohesive, non-plastic, gray (10YR 5/1).	ML									
			10	DOLOMITE , pale brown (10YR 6/3).										
			20	pale brown to pale brown (10YR 6/2) and trace light brownish gray (10YR 6/2)										
			30	some shale, gray (10YR 6/1)										
			45	some to little shale pale brown to very pale brown (10YR 7/3)										
			55	SANDSTONE , fine grained, pale brown (10YR 6/3) to light yellowish brown (10YR 6/4).										
			60											

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

Signature  Ross Hartwig	Firm TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Tel: (608) 826-3600 Fax: (608) 826-3941
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SURFICIAL SOIL SAMPLE LOG

PROJECT NAME: RockGen	PREPARED	CHECKED
PROJECT NUMBER: 437865.0000.0000	BY: LCA DATE: 7/26/2021	BY: MLW DATE: 8/16/21
SAMPLE COLLECTION METHOD: Shovel		
SAMPLE SCREENING EQUIPMENT: <input type="checkbox"/> PID <input type="checkbox"/> GAMMA DETECTOR	NOTES: No screening conducted	
<input type="checkbox"/> FID <input type="checkbox"/> OTHER _____		
SAMPLE LOCATION ID: SS-01	COLLECTED BY: Patrick Goetz, Direct Push Analytical	
NORTHING: 357076.8849	LOGGED BY: Meredith Westover, TRC	
EASTING: 2222897.089	DATE COLLECTED: 4/21/2021	
SAMPLE DESCRIPTION: 0-1 ft bgs: SILTY GRAVEL (GM) , some fines, little fine sand, 10YR 5/3 brown. (FILL)		
SAMPLE LOCATION ID: SS-02	COLLECTED BY: Patrick Goetz, Direct Push Analytical	
NORTHING: 357147.2102	LOGGED BY: Meredith Westover, TRC	
EASTING: 2222911.721	DATE COLLECTED: 4/21/2021	
SAMPLE DESCRIPTION: 0-1 ft bgs: SILTY GRAVEL (GM) , some fines, little fine sand, 10YR 5/3 brown. (FILL) 1-1.3 ft bgs: SILTY LEAN CLAY (CL-ML) , plastic, 10YR 3/3 dark brown.		
SAMPLE LOCATION ID: SS-03	COLLECTED BY: Patrick Goetz, Direct Push Analytical	
NORTHING: 357023.7191	LOGGED BY: Meredith Westover, TRC	
EASTING: 2222898.423	DATE COLLECTED: 4/21/2021	
SAMPLE DESCRIPTION: 0-1 ft bgs: SILTY GRAVEL (GM) , large rock, some fines, 10YR 5/3 brown. (FILL)		
SIGNATURE: 	DATE SIGNED: 8/16/2021	



SURFICIAL SOIL SAMPLE LOG

PROJECT NAME: RockGen	PREPARED	CHECKED
PROJECT NUMBER: 437865.0000.0000	BY: LCA DATE: 7/26/2021	BY: SMS DATE: 8/5/2021
SAMPLE COLLECTION METHOD: Trowel		
SAMPLE SCREENING EQUIPMENT:	<input type="checkbox"/> PID <input type="checkbox"/> GAMMA DETECTOR <input type="checkbox"/> FID <input type="checkbox"/> OTHER _____	NOTES: No screening conducted
SAMPLE LOCATION ID: SS-04	COLLECTED BY: Lydia Auner, TRC	
NORTHING: 357662.9484	LOGGED BY: Lydia Auner, TRC	
EASTING: 2222280.096	DATE COLLECTED: 5/11/2021	
SAMPLE DESCRIPTION:	LEAN CLAY (CL) , low plasticity, brown (7.5YR 4/3), no odor, dry/crumbly. Soil only 1-2" thick on top of/between rocks, scraped off soil using trowel.	
SIGNATURE: <i>Lydia Auner</i>	DATE SIGNED: 8/19/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-01)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97723 ° N -89.05011 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	4.2	0.09 cubic feet	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021		Date Received		Noted By	
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments					
City St. Charles		State IL		ZIP Code 60175		Signature of Person Doing Work <i>Jydia Ames</i> (TRC)		Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-02)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97721 ° N -89.05007 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material					

3. Filled & Sealed Well / Drillhole / Borehole Information <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		If a Well Construction Report is available, please attach.		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	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft) 2.0		Casing Diameter (in.)		Was casing cut off below surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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? 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 type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2.0		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)		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)		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
3/8" bentonite chips	Surface	5.0	0.11 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Amos</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-03)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97609 ° N -89.04947 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	4.2	0.09 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-04)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97604 ° N -89.04947 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W		License/Permit/Monitoring #	
Well Street Address 2346 Clear View Road						Present Well Owner Dennis Oehring			
Well City, Village or Town Cambridge				Well ZIP Code 53523		Mailing Address of Present Owner 2346 Clear View Road			
Subdivision Name				Lot #		City of Present Owner Cambridge		State WI	ZIP Code 53523

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

Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		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? 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 type="checkbox"/> N/A					
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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			
Lower Drillhole Diameter (in.) 2.0		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)					

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E			Telephone Number (630) 377-7766	Comments	
City St. Charles		State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-05)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97600 ° N -89.04953 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	

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

Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		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	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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? 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 type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		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
3/8" bentonite chips	Surface	5.2	0.11 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766	Comments		
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Amos</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-06)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97571 ° N -89.04974 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	1.5	0.03 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-07)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97513 ° N -89.04916 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	3.5	0.08 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766	Comments		
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-08)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97536 ° N -89.04874 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W		License/Permit/Monitoring #	
Well Street Address 2346 Clear View Road						Present Well Owner Dennis Oehring			
Well City, Village or Town Cambridge				Well ZIP Code 53523		Mailing Address of Present Owner 2346 Clear View Road			
Subdivision Name				Lot #		City of Present Owner Cambridge		State WI	ZIP Code 53523

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

Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		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? 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 type="checkbox"/> N/A						
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)						
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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						
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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				
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		5. Material Used to Fill Well / Drillhole						
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight
If yes, to what depth (feet)?				Surface		5.5		0.12 cubic 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
3/8" bentonite chips	Surface	5.5	0.12 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E			Telephone Number (630) 377-7766	Comments	
City St. Charles		State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-09)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97573 ° N -89.04853 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)	
If yes, to what depth (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 type="checkbox"/> No	<input checked="" 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 type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain)		
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
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-10)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97597 ° N -89.04828 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	9.5	0.21 cubic feet	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021		Date Received		Noted By	
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments					
City St. Charles		State IL		ZIP Code 60175		Signature of Person Doing Work <i>Jydia Annun (TRC)</i>		Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-10X)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97596 ° N -89.04827 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)	
If yes, to what depth (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 type="checkbox"/> No	<input checked="" 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 type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain)		
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
3/8" bentonite chips	Surface	9.5	0.21 cubic feet	

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

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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 Dane		WI Unique Well # of Removed Well (SB-11)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97593 ° N -89.04831 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	

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

Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		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	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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? 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 type="checkbox"/> N/A	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		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
3/8" bentonite chips	Surface	9.8	0.21 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ames</i> (TRC)	Date Signed 8/13/2021	

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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 Dane		WI Unique Well # of Removed Well (SB-12)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97596 ° N -89.04836 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	

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

Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		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					
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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? 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 type="checkbox"/> N/A					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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			
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	9.5	0.21 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Amos</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-13)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97592 ° N -89.04838 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	11.0	0.24 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Annus</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-14)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97555 ° N -89.04905 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/20/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	4.5	0.1 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/20/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766	Comments		
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Amos</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-15)		Hicap #		Facility Name RockGen Energy Center			
Latitude / Longitude (see instructions) 42.97582 ° N -89.04927 ° W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)			
1/4 / 1/4 NW or Gov't Lot #		Section 23		Township 6		Range 12		Original Well Owner	
Well Street Address 2346 Clear View Road		Well City, Village or Town Cambridge		Well ZIP Code 53523		Present Well Owner Dennis Oehring			
Subdivision Name		Lot #		City of Present Owner Cambridge		State WI		ZIP Code 53523	
Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		License/Permit/Monitoring #					

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

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/21/2021		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					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		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? 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 type="checkbox"/> N/A					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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					
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	5.0	0.11 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/21/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E		Telephone Number (630) 377-7766		Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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 this 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 Dane		WI Unique Well # of Removed Well (SB-16)		Hicap #		Facility Name RockGen Energy Center							
Latitude / Longitude (see instructions) 42.97547 ° N -89.04929 ° W				Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)		License/Permit/Monitoring #			
1/4 / 1/4 NW or Gov't Lot #		1/4 NW		Section 23		Township 6		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner			
Well Street Address 2346 Clear View Road						Present Well Owner Dennis Oehring							
Well City, Village or Town Cambridge						Mailing Address of Present Owner 2346 Clear View Road							
Subdivision Name				Well ZIP Code 53523		City of Present Owner Cambridge				State WI		ZIP Code 53523	

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

Reason For Removal From Service Testing completed		WI Unique Well # of Replacement Well		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					
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 04/21/2021		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? 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 type="checkbox"/> N/A					
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain) _____					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft)		Casing Diameter (in.)		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			
Lower Drillhole Diameter (in.) 2.0		Casing Depth (ft.)		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					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		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
3/8" bentonite chips	Surface	4.3	0.09 cubic feet	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Direct Push Analytical Corp.		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 04/21/2021	Date Received	Noted By
Street or Route 4N969 Old LaFox Road, Unit E			Telephone Number (630) 377-7766	Comments	
City St. Charles	State IL	ZIP Code 60175	Signature of Person Doing Work <i>Jydia Ammer</i> (TRC)	Date Signed 8/13/2021	

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-01	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU630	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____
3. Time spent developing well **120** min.
4. Depth of well (from top of well casing) **52.02** ft.
5. Inside diameter of well **2.05** in.
6. Volume of water in filter pack and well casing **4.2** gal.
7. Volume of water removed from well **55.0** gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 44.04 ft.	45.71 ft.
Date	b. 4/28/2021	5/16/2021
Time	c. 12:30 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	11:14 <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>light brown</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm		
Lydia Auner TRC		

17. Additional comments on development:
Well developed by repeatedly bailing dry (42 gal total removed) then pumping with periodic surging (~13 gal total removed). Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Dennis Oehring</u>	Signature:
Firm: <u>RockGen Energy Center, LLC</u>	Print Name: <u>Lydia Auner</u>
Street: <u>2346 Clear View Road</u>	Firm: <u>TRC Environmental Corporation</u>
City/State/Zip: <u>Cambridge, WI 53523</u>	

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-02	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU631	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other
3. Time spent developing well **145** min.
4. Depth of well (from top of well casing) **60.13** ft.
5. Inside diameter of well **2.05** in.
6. Volume of water in filter pack and well casing **4.4** gal.
7. Volume of water removed from well **18.5** gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	56.13 ft.	ft.
Date b.	5/6/2021	
Time c.	12:20 <input checked="" type="checkbox"/> p.m.	<input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	16.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>light brown</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm Steve Sellwood and Lydia Auner TRC		

17. Additional comments on development:
Well developed by repeatedly bailing dry over the span of multiple days. Time spent developing was estimated based on the number of times well was bailed dry. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address Name: <u>Dennis Oehring</u> Firm: <u>RockGen Energy Center, LLC</u> Street: <u>2346 Clear View Road</u> City/State/Zip: <u>Cambridge, WI 53523</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: Print Name: <u>Lydia Auner</u> Firm: <u>TRC Environmental Corporation</u>
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NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-03	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU632	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other
3. Time spent developing well **120** min.
4. Depth of well (from top of well casing) **67.11** ft.
5. Inside diameter of well **2.05** in.
6. Volume of water in filter pack and well casing **5.4** gal.
7. Volume of water removed from well **55.0** gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 57.47 ft.	57.98 ft.
Date	b. 5/6/2021	5/10/2021
Time	c. 01:30 <input checked="" type="checkbox"/> p.m.	03:15 <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.1 inches	0.0 inches
13. Water clarity (Describe)	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm Steve Sellwood TRC		

17. Additional comments on development:
Well developing by bailing (15 gal removed), then pumping with periodic surging (another 40 gal removed over 63 min). Total time spent developing estimated based on time spent pumping and volume bailed. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Dennis Oehring</u>	
Firm: <u>RockGen Energy Center, LLC</u>	
Street: <u>2346 Clear View Road</u>	
City/State/Zip: <u>Cambridge, WI 53523</u>	
	Signature:
	Print Name: <u>Steve Sellwood</u>
	Firm: <u>TRC Environmental Corporation</u>

NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-04	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU633	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other
3. Time spent developing well **185 min.**
4. Depth of well (from top of well casing) **67.14 ft.**
5. Inside diameter of well **2.05 in.**
6. Volume of water in filter pack and well casing **5.0 gal.**
7. Volume of water removed from well **110.0 gal.**
8. Volume of water added (if any) **gal.**
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	58.26 ft.	58.37 ft.
Date	b.	5/16/2021	5/13/2021
Time	c.	12:25 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	05:25 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom		5.3 inches	0.0 inches
13. Water clarity		Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>brown</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:			
14. Total suspended solids		mg/l	mg/l
15. COD		mg/l	mg/l
16. Well developed by: Person's Name and Firm			
		Lydia Auner TRC	

17. Additional comments on development:

Well development was completed before final stickup height was established. Depth to water and depth to bottom measurements have been adjusted to account for additional 2 ft of stickup height added after well development was completed. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address Name: <u>Dennis Oehring</u> Firm: <u>RockGen Energy Center, LLC</u> Street: <u>2346 Clear View Road</u> City/State/Zip: <u>Cambridge, WI 53523</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: Print Name: <u>Lydia Auner</u> Firm: <u>TRC Environmental Corporation</u>
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NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-05	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU634	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
 - surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____
3. Time spent developing well **200** min.
4. Depth of well (from top of well casing) **71.06** ft.
5. Inside diameter of well **2.05** in.
6. Volume of water in filter pack and well casing **5.6** gal.
7. Volume of water removed from well **40.0** gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	60.54 ft.	70.00 ft.
Date	b.	5/10/2021	5/17/2021
Time	c.	03:25 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	05:33 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom		3.1 inches	0.0 inches
13. Water clarity (Describe)	Clear	<input type="checkbox"/> 1 0	Clear <input type="checkbox"/> 2 0
	Turbid	<input checked="" type="checkbox"/> 1 5	Turbid <input checked="" type="checkbox"/> 2 5
		<u>brown</u>	<u>light brown</u>
Fill in if drilling fluids were used and well is at solid waste facility:			
14. Total suspended solids		mg/l	mg/l
15. COD		mg/l	mg/l
16. Well developed by: Person's Name and Firm			
Steve Sellwood and Lydia Auner			
TRC			

17. Additional comments on development:

Well developed by repeatedly bailing dry (at least 12 times). Total time spent developing was estimated. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address Name: <u>Dennis Oehring</u> Firm: <u>RockGen Energy Center, LLC</u> Street: <u>2346 Clear View Road</u> City/State/Zip: <u>Cambridge, WI 53523</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: Print Name: <u>Lydia Auner</u> Firm: <u>TRC Environmental Corporation</u>
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NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-06	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU635	DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed, and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input checked="" type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
other _____	<input type="checkbox"/>	

3. Time spent developing well **106 min.**

4. Depth of well (from top of well casing) **67.36 ft.**

5. Inside diameter of well **2.05 in.**

6. Volume of water in filter pack and well casing **5.4 gal.**

7. Volume of water removed from well **29.5 gal.**

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 57.34 ft.	65.93 ft.
Date	b. 5/13/2021	5/17/2021
Time	c. 04:21 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	05:06 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.7 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>medium brown</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>very light brown, low turbidity</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm Lydia Auner TRC		

17. Additional comments on development:
Well developed by bailing dry 8 times over the course of several days, each time removing 3-4.5 gallons. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address Name: <u>Dennis Oehring</u> Firm: <u>RockGen Energy Center, LLC</u> Street: <u>2346 Clear View Road</u> City/State/Zip: <u>Cambridge, WI 53523</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: Print Name: <u>Lydia Auner</u> Firm: <u>TRC Environmental Corporation</u>
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NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name MW-07	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU636	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other
3. Time spent developing well **133** min.
4. Depth of well (from top of well casing) **65.93** ft.
5. Inside diameter of well **2.05** in.
6. Volume of water in filter pack and well casing **10.2** gal.
7. Volume of water removed from well **55.0** gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	49.72 ft.	58.29 ft.
Date	b.	5/14/2021	5/17/2021
Time	c.	09:05 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	02:02 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom		4.6 inches	0.0 inches
13. Water clarity (Describe)	Clear	<input type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0
	Turbid	<input checked="" type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 2 5
		<u>medium brown</u>	_____
Fill in if drilling fluids were used and well is at solid waste facility:			
14. Total suspended solids		mg/l	mg/l
15. COD		mg/l	mg/l
16. Well developed by: Person's Name and Firm			
		Lydia Auner	
		TRC	

17. Additional comments on development:

Well developed by bailing dry several times (approximately 44 gal removed by bailing), then pumping with periodic surging. The depth to water measurement from before development is assumed to be higher than the actual static water level, possibly related to the well having been very recently installed. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address Name: <u>Dennis Oehring</u> Firm: <u>RockGen Energy Center, LLC</u> Street: <u>2346 Clear View Road</u> City/State/Zip: <u>Cambridge, WI 53523</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: Print Name: <u>Lydia Auner</u> Firm: <u>TRC Environmental Corporation</u>
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NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	County Dane	Well Name PZ-01	
Facility License, Permit or Monitoring Number	County Code 13	Wis. Unique Well Number VU637	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
 - surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____
3. Time spent developing well **300 min.**
4. Depth of well (from top of well casing) **302.4 ft.**
5. Inside diameter of well **1.91 in.**
6. Volume of water in filter pack and well casing **37.00 gal.**
7. Volume of water removed from well **300.0 gal.**
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	100.52 ft.	102.46 ft.
Date	b.	6/22/2021	6/22/2021
Time	c.	12:00 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	05:00 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom		inches	inches
13. Water clarity (Describe)	Clear	<input type="checkbox"/> 1 0	Clear <input type="checkbox"/> 2 0
	Turbid	<input checked="" type="checkbox"/> 1 5	Turbid <input checked="" type="checkbox"/> 2 5
		<u>brown</u>	<u>reddish brown</u>
Fill in if drilling fluids were used and well is at solid waste facility:			
14. Total suspended solids		mg/l	mg/l
15. COD		mg/l	mg/l
16. Well developed by: Person's Name and Firm			
Wesley Braga			
TRC			

17. Additional comments on development:
Well developed using inertial pump (ran out of drum storage at 300 gallons). Total well depth measured at 300 ft bgs (~302.4 ft btoc) during well construction. Depth to bottom could not be measured during development with approved 300' water level tape on hand.

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Dennis Oehring</u>	Signature: Print Name: <u>Wesley Braga</u> Firm: <u>TRC Environmental Corporation</u>
Firm: <u>RockGen Energy Center, LLC</u>	
Street: <u>2346 Clear View Road</u>	
City/State/Zip: <u>Cambridge, WI 53523</u>	

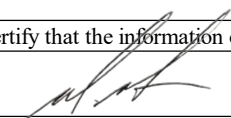
NOTE: See instructions for more information including a list of county codes and well type codes.

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

Facility/Project Name RockGen Energy Center	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-01
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>42° 58' 37.9"</u> Long. <u>89° 2' 59.6"</u> or	Wis. Unique Well No. <u>VU630</u> DNR Well Number _____
Facility ID	St. Plane <u>357,606</u> ft. N, <u>2,222,754</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>04/23/2021</u>
Type of Well Well Code <u>11/mw</u>	Section Location of Waste/Source <u>NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12 E W</u>	Well Installed By: (Person's Name and Firm) <u>Travis Whittaker</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Gov. Lot Number <u>Cascade</u>

A. Protective pipe, top elevation	<u>930.81</u> ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>930.73</u> ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	<u>928.28</u> ft. MSL	a. Inside diameter:	<u>3.8</u> in.
D. Surface seal, bottom	<u>924.3</u> ft. MSL or <u>4.0</u> ft.	b. Length:	<u>7.0</u> ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/>		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>bollards</u>
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 <u>Rotosonic</u> Other <input checked="" type="checkbox"/>	3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
15. Drilling fluid used:	Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 <u>Coarse sand</u> Other <input checked="" type="checkbox"/>
16. Drilling additives used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>8.4</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
Describe <u>Baroid QUIK-GEL</u>		6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): <u>Site demineralized water tank</u>		7. Fine sand material: Manufacturer, product name & mesh size	a. <u>Red Flint #7</u> b. Volume added <u>0.5</u> ft ³
E. Bentonite seal, top	_____ ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name & mesh size	a. <u>Red Flint #40</u> b. Volume added <u>4.4</u> ft ³
F. Fine sand, top	<u>899.2</u> ft. MSL or <u>29.1</u> ft.	9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top	<u>896.0</u> ft. MSL or <u>32.3</u> ft.	10. Screen material:	<u>PVC</u>
H. Screen joint, top	<u>893.7</u> ft. MSL or <u>34.6</u> ft.	a. Screen Type:	Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
I. Well bottom	<u>878.7</u> ft. MSL or <u>49.6</u> ft.	b. Manufacturer	<u>Hole Products</u>
J. Filter pack, bottom	<u>878.3</u> ft. MSL or <u>50.0</u> ft.	c. Slot size:	<u>0.010</u> in.
K. Borehole, bottom	<u>878.3</u> ft. MSL or <u>50.0</u> ft.	d. Slotted length:	<u>15.0</u> ft.
L. Borehole, diameter	<u>8.0</u> in.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
M. O.D. well casing	<u>2.38</u> in.		
N. I.D. well casing	<u>2.05</u> in.		

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

Signature  Firm TRC Environmental Corp. Tel: 608.826.3600
708 Heartland Trail, Suite 3000 Madison, WI 53717 Fax: 608.826.3941

Facility/Project Name RockGen Energy Center		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-02	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>42° 58' 32.1"</u> Long. <u>89° 2' 59.1"</u> or		Wis. Unique Well No. <u>VU631</u> DNR Well Number _____	
Facility ID		St. Plane <u>357,021</u> ft. N, <u>2,222,798</u> ft. E. <input checked="" type="checkbox"/> C/N		Date Well Installed <u>05/03/2021</u>	
Type of Well Well Code <u>11/mw</u>		Section Location of Waste/Source <u>NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12 E W</u>		Well Installed By: (Person's Name and Firm) <u>Travis Whittaker</u>	
Distance from Waste/Source ft. _____		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input checked="" type="checkbox"/>				_____ Cascade	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Rotosonic _____ Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ Baroid QUIK-GEL</p> <p>17. Source of water (attach analysis, if required): _____ Site demineralized water tank</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or _____ ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or _____ ft.</p> <p>H. Screen joint, top _____ ft. MSL or _____ ft.</p> <p>I. Well bottom _____ ft. MSL or _____ ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or _____ ft.</p> <p>K. Borehole, bottom _____ ft. MSL or _____ ft.</p> <p>L. Borehole, diameter _____ in.</p> <p>M. O.D. well casing _____ in.</p> <p>N. I.D. well casing _____ in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____ bollards</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Coarse sand _____ Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ Red Flint #7 b. Volume added _____ Ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Red Flint #40 b. Volume added _____ Ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>b. Manufacturer _____ Hole Products c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10.0 ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 1 4 _____ formation collapse Other <input checked="" type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm TRC Environmental Corp. 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: 608.826.3600 Fax: 608.826.3941
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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

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

Facility/Project Name RockGen Energy Center		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-03	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. VU632 DNR Well Number _____	
Facility ID		Lat. 42° 58' 30.6" Long. 89° 2' 52.4" or _____		Date Well Installed 05/04/2021	
Type of Well		St. Plane 356,876 ft. N, 2,223,299 ft. E. <input checked="" type="checkbox"/> C/N		Well Installed By: (Person's Name and Firm)	
Well Code 11/mw		Section Location of Waste/Source NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12 E W		Travis Whittaker	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Gov. Lot Number _____	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Cascade	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen:</p> <p>GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Rotosonic _____ Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____ Site demineralized water tank</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or _____ ft.</p> <p>F. Fine sand, top _____ ft. MSL or _____ ft.</p> <p>G. Filter pack, top _____ ft. MSL or _____ ft.</p> <p>H. Screen joint, top _____ ft. MSL or _____ ft.</p> <p>I. Well bottom _____ ft. MSL or _____ ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or _____ ft.</p> <p>K. Borehole, bottom _____ ft. MSL or _____ ft.</p> <p>L. Borehole, diameter _____ in.</p> <p>M. O.D. well casing _____ in.</p> <p>N. I.D. well casing _____ in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____ bollards</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Coarse sand _____ Other <input checked="" type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ Red Flint #7 b. Volume added _____ Ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Red Flint #40 b. Volume added _____ Ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/></p> <p>10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> b. Manufacturer _____ Hole Products c. Slot size: _____ 0.010 in. d. Slotted length: _____ 15.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Jydia Amos* Firm **TRC Environmental Corp.** Tel: 608.826.3600
 708 Heartland Trail, Suite 3000 Madison, WI 53717 Fax: 608.826.3941

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

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

Facility/Project Name RockGen Energy Center	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-04
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>42° 58' 32.1"</u> Long. <u>89° 2' 57.4"</u> or	Wis. Unique Well No. <u>VU633</u> DNR Well Number _____
Facility ID	St. Plane <u>357,021</u> ft. N, <u>2,222,923</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>05/06/2021</u>
Type of Well Well Code <u>11/mw</u>	Section Location of Waste/Source <u>NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Travis Whittaker</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	<u>Cascade</u>

A. Protective pipe, top elevation	<u>943.40</u> ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>943.25</u> ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	<u>940.77</u> ft. MSL	a. Inside diameter:	<u>3.8</u> in.
D. Surface seal, bottom	<u>936.8</u> ft. MSL or <u>4.0</u> ft.	b. Length:	<u>7.0</u> ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen:		d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>		If yes, describe: <u>bollards</u>	
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>		3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
Bedrock <input checked="" type="checkbox"/>		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 Coarse sand <input checked="" type="checkbox"/>
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>2.5</u> Lbs/gal mud weight . . . Bentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>6.1</u> Ft ³ volume added for any of the above f. How installed: Tremie <input checked="" type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Rotosonic <input type="checkbox"/> Other <input checked="" type="checkbox"/>	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used:	Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size	a. <u>Red Flint #7</u> b. Volume added <u>0.3</u> ft ³
16. Drilling additives used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size	a. <u>Red Flint #40</u> b. Volume added <u>2.8</u> ft ³
Describe <u>Baroid QUIK-GEL</u>		9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): <u>Site demineralized water tank</u>		10. Screen material: <u>PVC</u>	a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top	<u>899.8</u> ft. MSL or <u>41.0</u> ft.	b. Manufacturer <u>Hole Products</u>	c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15.0</u> ft.
F. Fine sand, top	<u>894.8</u> ft. MSL or <u>46.0</u> ft.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
G. Filter pack, top	<u>892.8</u> ft. MSL or <u>48.0</u> ft.		
H. Screen joint, top	<u>891.2</u> ft. MSL or <u>49.6</u> ft.		
I. Well bottom	<u>876.2</u> ft. MSL or <u>64.6</u> ft.		
J. Filter pack, bottom	<u>875.8</u> ft. MSL or <u>65.0</u> ft.		
K. Borehole, bottom	<u>875.8</u> ft. MSL or <u>65.0</u> ft.		
L. Borehole, diameter	<u>6.0</u> in.		
M. O.D. well casing	<u>2.38</u> in.		
N. I.D. well casing	<u>2.05</u> in.		

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

Signature [Signature] Firm TRC Environmental Corp. Tel: 608.826.3600
708 Heartland Trail, Suite 3000 Madison, WI 53717 Fax: 608.826.3941

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

Facility/Project Name RockGen Energy Center		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name MW-05	
Facility License, Permit or Monitoring No.		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. DNR Well Number	
Facility ID		Lat. <u>42° 58' 33.0"</u> Long. <u>89° 2' 52.4"</u> or		Date Well Installed 05/10/2021	
Type of Well Well Code 11/mw		St. Plane <u>357,112</u> ft. N, <u>2,223,295</u> ft. E. <input checked="" type="checkbox"/> C/N		Well Installed By: (Person's Name and Firm) Travis Whittaker	
Distance from Waste/Source ft.		Section Location of Waste/Source <u>NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W		Gov. Lot Number	
Enf. Stds. Apply <input checked="" type="checkbox"/>		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		Cascade	

A. Protective pipe, top elevation	<u>945.56</u> ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>945.48</u> ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	<u>942.92</u> ft. MSL	a. Inside diameter:	<u>3.8</u> in.
D. Surface seal, bottom	<u>938.9</u> ft. MSL or <u>4.0</u> ft.	b. Length:	<u>7.0</u> ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> 13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Rotosonic <input type="checkbox"/> Other <input checked="" type="checkbox"/> 15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9 16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>Baroid QUIK-GEL</u> 17. Source of water (attach analysis, if required): <u>Site demineralized water tank</u>		c. Material:	Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>
		d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>bollards</u>
		3. Surface seal:	Bentonite <input type="checkbox"/> 3 0 Concrete <input checked="" type="checkbox"/> 0 1 Other <input type="checkbox"/>
		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 3 0 Coarse sand <input checked="" type="checkbox"/>
E. Bentonite seal, top	_____ ft. MSL or _____ ft.	5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 5 0 e. <u>7.4</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
F. Fine sand, top	<u>894.4</u> ft. MSL or <u>48.5</u> ft.	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
G. Filter pack, top	<u>892.4</u> ft. MSL or <u>50.5</u> ft.	7. Fine sand material: Manufacturer, product name & mesh size	a. <u>Red Flint #7</u> b. Volume added <u>0.33</u> ft ³
H. Screen joint, top	<u>889.4</u> ft. MSL or <u>53.5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size	a. <u>Red Flint #40</u> b. Volume added <u>3</u> ft ³
I. Well bottom	<u>874.4</u> ft. MSL or <u>68.5</u> ft.	9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/>
J. Filter pack, bottom	<u>874.4</u> ft. MSL or <u>68.5</u> ft.	10. Screen material:	PVC
K. Borehole, bottom	<u>874.4</u> ft. MSL or <u>68.5</u> ft.	a. Screen Type:	Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
L. Borehole, diameter	<u>6.0</u> in.	b. Manufacturer	<u>Hole Products</u>
M. O.D. well casing	<u>2.38</u> in.	c. Slot size:	<u>0.010</u> in.
N. I.D. well casing	<u>2.05</u> in.	d. Slotted length:	<u>15.0</u> ft.
		11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>

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

Signature [Signature] Firm TRC Environmental Corp. Tel: 608.826.3600
708 Heartland Trail, Suite 3000 Madison, WI 53717 Fax: 608.826.3941

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

Facility/Project Name RockGen Energy Center	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-06
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>42° 58' 29.3"</u> Long. <u>89° 2' 54.9"</u> or	Wis. Unique Well No. <u>VU635</u> DNR Well Number _____
Facility ID	St. Plane <u>356,743</u> ft. N, <u>2,223,117</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>05/11/2021</u>
Type of Well Well Code 11/mw	Section Location of Waste/Source <u>NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Travis Whittaker</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	<u>Cascade</u>
Enf. Stds. Apply <input checked="" type="checkbox"/>	Gov. Lot Number _____	

A. Protective pipe, top elevation	<u>941.92</u> ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>941.84</u> ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	<u>939.40</u> ft. MSL	a. Inside diameter:	<u>3.8</u> in.
D. Surface seal, bottom	<u>935.4</u> ft. MSL or <u>4.0</u> ft.	b. Length:	<u>7.0</u> ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
		d. Additional protection?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>bollards</u>
12. USCS classification of soil near screen:		3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>		4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 Coarse sand <input checked="" type="checkbox"/>
SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/>		5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>2.5</u> Lbs/gal mud weight . . . Bentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>6.5</u> Ft ³ volume added for any of the above
Bedrock <input checked="" type="checkbox"/>		f. How installed:	Tremie <input checked="" type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input type="checkbox"/> 41 Rotosonic _____ Other <input checked="" type="checkbox"/>	7. Fine sand material: Manufacturer, product name & mesh size	a. <u>Red Flint #7</u>
15. Drilling fluid used:	Water <input checked="" type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	b. Volume added	<u>0.5</u> ft ³
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size	a. <u>Red Flint #40</u>
Describe _____		b. Volume added	<u>3.5</u> ft ³
17. Source of water (attach analysis, if required):	<u>Site demineralized water tank</u>	9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
		10. Screen material:	<u>PVC</u>
E. Bentonite seal, top	<u>896.4</u> ft. MSL or <u>43.0</u> ft.	a. Screen Type:	Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	<u>893.4</u> ft. MSL or <u>46.0</u> ft.	b. Manufacturer	<u>Hole Products</u>
G. Filter pack, top	<u>891.4</u> ft. MSL or <u>48.0</u> ft.	c. Slot size:	<u>0.010</u> in.
H. Screen joint, top	<u>889.5</u> ft. MSL or <u>49.9</u> ft.	d. Slotted length:	<u>15.0</u> ft.
I. Well bottom	<u>874.5</u> ft. MSL or <u>64.9</u> ft.	11. Backfill material (below filter pack):	None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
J. Filter pack, bottom	<u>874.4</u> ft. MSL or <u>65.0</u> ft.		
K. Borehole, bottom	<u>874.4</u> ft. MSL or <u>65.0</u> ft.		
L. Borehole, diameter	<u>6.0</u> in.		
M. O.D. well casing	<u>2.38</u> in.		
N. I.D. well casing	<u>2.05</u> in.		

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

Signature *Lidia Amner* Firm TRC Environmental Corp. Tel: 608.826.3600
708 Heartland Trail, Suite 3000 Madison, WI 53717 Fax: 608.826.3941

Facility/Project Name RockGen Energy Center	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-07
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>42° 58' 24.8"</u> Long. <u>89° 2' 52.2"</u> or	Wis. Unique Well No. <u>VU636</u> DNR Well Number _____
Facility ID	St. Plane <u>356,288</u> ft. N, <u>2,223,322</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>05/13/2021</u>
Type of Well Well Code <u>11/mw</u>	Section Location of Waste/Source <u>SW</u> 1/4 of <u>NW</u> 1/4 of Sec. <u>23</u> , T. <u>6</u> N, R. <u>12</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Travis Whittaker</u>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Gov. Lot Number <u>Cascade</u>

<p>A. Protective pipe, top elevation <u>941.67</u> ft. MSL</p> <p>B. Well casing, top elevation <u>941.63</u> ft. MSL</p> <p>C. Land surface elevation <u>939.14</u> ft. MSL</p> <p>D. Surface seal, bottom <u>935.1</u> ft. MSL or <u>4.0</u> ft.</p>	<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>3.8</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> _____ d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>bollards</u></p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Coarse sand <input checked="" type="checkbox"/> _____ Other <input type="checkbox"/> _____</p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>2.5</u> Lbs/gal mud weight . . . Bentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite . . . Bentonite-cement grout <input type="checkbox"/> 50 e. <u>6.1</u> Ft³ volume added for any of the above f. How installed: Tremie <input checked="" type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint #7</u> b. Volume added <u>0.25</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added <u>3</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> _____</p> <p>10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____ b. Manufacturer <u>Hole Products</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15.0</u> ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 14 <u>3/8" bentonite chips</u> Other <input checked="" type="checkbox"/> _____</p>
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12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Rotosonic Other _____

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe Baroid QUIK-GEL

17. Source of water (attach analysis, if required):
Site demineralized water tank

<p>E. Bentonite seal, top <u>898.1</u> ft. MSL or <u>41.0</u> ft.</p> <p>F. Fine sand, top <u>893.1</u> ft. MSL or <u>46.0</u> ft.</p> <p>G. Filter pack, top <u>891.1</u> ft. MSL or <u>48.0</u> ft.</p> <p>H. Screen joint, top <u>890.7</u> ft. MSL or <u>48.4</u> ft.</p> <p>I. Well bottom <u>875.7</u> ft. MSL or <u>63.4</u> ft.</p> <p>J. Filter pack, bottom <u>872.1</u> ft. MSL or <u>67.0</u> ft.</p> <p>K. Borehole, bottom <u>869.1</u> ft. MSL or <u>70.0</u> ft.</p> <p>L. Borehole, diameter <u>6.0</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.05</u> in.</p>	
--	--

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

Signature <i>Lydia Ames</i>	Firm TRC Environmental Corp. 708 Heartland Trail, Suite 3000 Madison, WI 53717	Tel: 608.826.3600 Fax: 608.826.3941
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Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

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

Facility/Project Name RockGen Energy Center	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name PZ-01
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/> Lat. <u>42° 58' 32.9"</u> Long. <u>89° 2' 52.5"</u> or	Wis. Unique Well No. <u>VU637</u> DNR Well Number
Facility ID	St. Plane <u>357,106</u> ft. N, <u>2,223,286</u> ft. E. <input checked="" type="checkbox"/> C/N	Date Well Installed <u>06/09/2021</u>
Type of Well Well Code <u>12/pz</u>	Section Location of Waste/Source <u>NW 1/4 of NW 1/4 of Sec. 23, T. 6 N, R. 12</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>Adam Jochimson</u>
Distance from Waste/Source ft. <u> </u>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	<u>Cascade</u>

- A. Protective pipe, top elevation 945.39 ft. MSL
- B. Well casing, top elevation 944.95 ft. MSL
- C. Land surface elevation 942.57 ft. MSL
- D. Surface seal, bottom 942.1 ft. MSL or 0.5 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

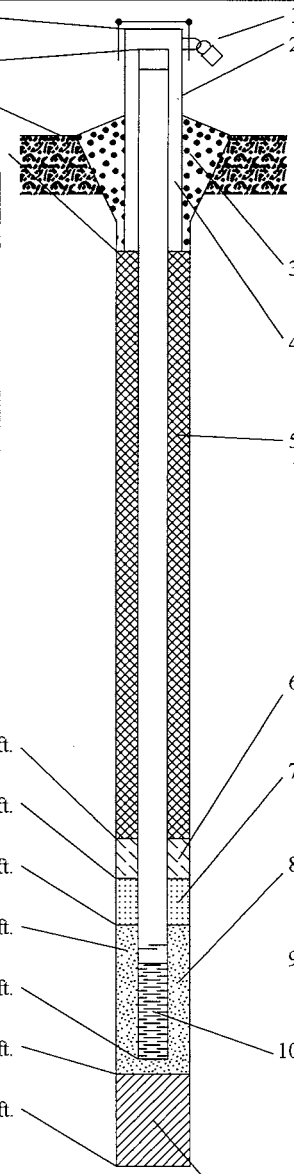
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
Mud rotary Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe Baroid QUIK-GEL

17. Source of water (attach analysis, if required):
Site demineralized water tank



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 6.0 in.
 - b. Length: 280.0 ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: bollards
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
Coarse sand and annular space seal Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 - c. 2.5 Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. % Bentonite . . . Bentonite-cement grout 5 0
 - e. 46.5 Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size
Red Flint #7
 - b. Volume added 0.33 ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
Red Flint #40
 - b. Volume added 2.58 ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: PVC
 - a. Screen Type: Factory cut 1 1
Continuous slot 0 1
 Other
 - b. Manufacturer Hole Products
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10.0 ft.
- 11. Backfill material (below filter pack): None 1 4
 Other

- E. Bentonite seal, top 661.6 ft. MSL or 281.0 ft.
- F. Fine sand, top 656.6 ft. MSL or 286.0 ft.
- G. Filter pack, top 654.6 ft. MSL or 288.0 ft.
- H. Screen joint, top 652.6 ft. MSL or 290.0 ft.
- I. Well bottom 642.6 ft. MSL or 300.0 ft.
- J. Filter pack, bottom 639.6 ft. MSL or 303.0 ft.
- K. Borehole, bottom 639.6 ft. MSL or 303.0 ft.
- L. Borehole, diameter 12.5 in.
- M. O.D. well casing 2.38 in.
- N. I.D. well casing 1.91 in.

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

Signature Ross Hartwick Firm TRC Environmental Corporation Tel: (608) 826-3600
708 Heartland Trail Madison, WI 53717 Fax: (608) 826-3941

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a 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 these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Appendix D: Hydraulic Conductivity Test Documentation

Summary of Slug Test Analyses
RockGen Energy Center, TRC Project # 437865.0000.0000 Phase 1
Town of Christiana, Dane County, Wisconsin

Parameter	Description	Units	Source/notes	MW-01		MW-03			MW-05	
				Test 1	Test 2	Test 1	Test 2	Test 3	Test 1	Test 2
Well/Boring Data										
TOC	Top of casing elevation	ft amsl		928.28		939.53			942.92	
	Ground surface elevation	ft amsl		930.73		942.03			945.48	
	Stickup height	ft		2.45		2.50			2.56	
	Constructed depth to top of screen	ft bgs	Post-development DTB (btoc) - stickup height	34.6		49.6			53.5	
	Screen length	ft bgs		15		15			15	
	Constructed depth to bottom of screen	ft bgs		49.6		64.6			68.5	
	Inside radius of well casing	in	Well construction form	2.047		2.047			2.047	
	Borehole diameter	in	Well construction form (see note for MW-01)	6		6			6	
	Lithology in saturated part of screened interval	-	Boring log	No recovery, assumed sandstone		No recovery, assumed sandstone			No recovery, assumed sandstone	
DTW	Depth to water	ft btoc	Field notes	45.03		58.16			61.22	
Input parameters										
H(0)	Observed initial displacement	ft	Data logger file	0.258	0.397	1.495	1.755	0.873	0.839	0.887
H	Static water column height	ft	Height of water above bottom of well	7.02		8.94			9.84	
b	Saturated thickness of aquifer	ft	Height of water column in well + 15 ft	22		24			25	
Kv/Kh	Vertical-to-horizontal hydraulic conductivity anisotropy	-	Estimated based on lithology interpretation	0.5		0.5			0.5	
d	Depth to top of well screen from static water level (unconfined)	ft	d=0 if top of well screen is above the water table (unconfined)	0		0			0	
L	Length of well screen	ft	Saturated length of well screen	7.02		8.94			9.84	
r(c)	Inside radius of well casing	ft	Radius of casing from well construction form	0.085		0.085			0.085	
r(eq)	Radius of downhole equipment	ft	Radius of transducer	0.005		0.005			0.005	
r(w)	Radius of well (including filter pack)	ft	Well construction form	0.25		0.25			0.25	
n(e)	Filter pack porosity for correction for effective casing radius	-	Bouwer-Rice (1976) method	0.25		0.25			0.25	
	Aquifer type	-	Interpreted from boring logs	Unconfined		Unconfined			Unconfined	
Results for Bouwer-Rice Solution										
y0	Initial head	ft	Manual/automatic fit solution in AQTESOLV	0.1319	0.1615	0.2599	0.4958	0.2762	0.2249	0.3577
K	Hydraulic conductivity	cm/sec	Manual/automatic fit solution in AQTESOLV	7.3E-04	5.1E-04	1.0E-03	9.3E-04	1.1E-03	1.1E-04	9.5E-05
K	Geometric mean hydraulic conductivity	cm/sec	Geometric mean if multiple slug tests conducted	6.1E-04		1.0E-03			1.0E-04	
Results for Hvorslev Solution										
y0	Initial head	ft	Manual/automatic fit solution in AQTESOLV	0.1319	0.1615	0.2598	0.4958	0.2762	0.2249	0.3577
K	Hydraulic conductivity	cm/sec	Manual/automatic fit solution in AQTESOLV	1.1E-03	7.9E-04	1.6E-03	1.4E-03	1.7E-03	1.7E-04	1.4E-04
K	Geometric mean hydraulic conductivity	cm/sec	Geometric mean if multiple slug tests conducted	9.4E-04		1.5E-03			1.6E-04	

Notes:

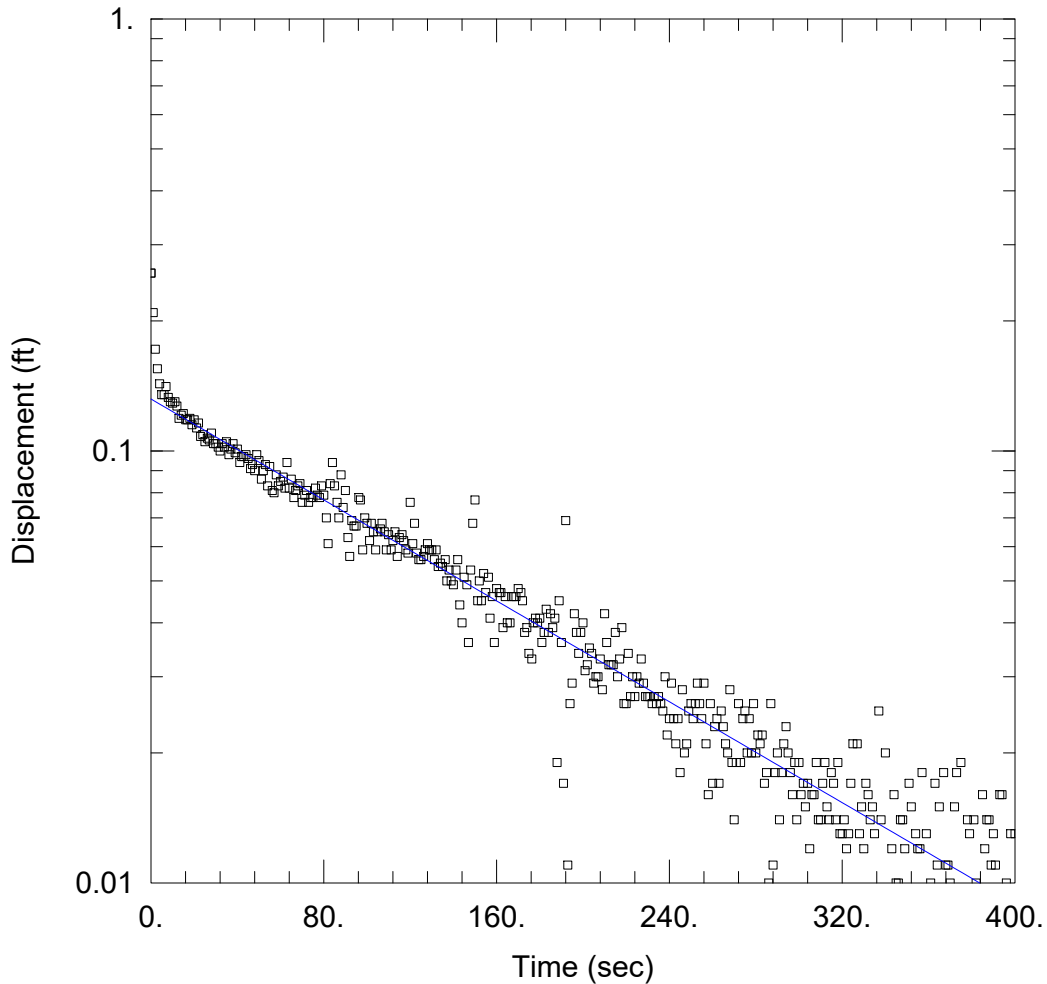
The MW-01 borehole diameter is 8" from 0-43 ft bgs and 6" from 43-50 ft bgs. For the purpose of slug test analysis, a borehole diameter of 6" was used because most of the saturated section of the screen is within the 6" borehole diameter depth.

The lithology in the saturated portion of the screened interval is assumed to be sandstone based on the lack of recovery during drilling, driller observations, and existing boring logs from the site.

The saturated thickness of the aquifer was estimated as the saturated length of the well plus 15 ft.

Transducer cable thickness of 0.01 ft was used for determining the radius of downhole equipment.

Prepared by: L. Auner, 6/2/2021
Updated by: L. Auner, 6/3/2021
Checked by: S. Sellwood, 6/3/2021



MW-01 TEST 1

Data Set: \\...MW-01_Test1.aqt
 Date: 06/03/21

Time: 10:29:10

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-01
 Test Date: 5/20/2021

AQUIFER DATA

Saturated Thickness: 22 ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-01)

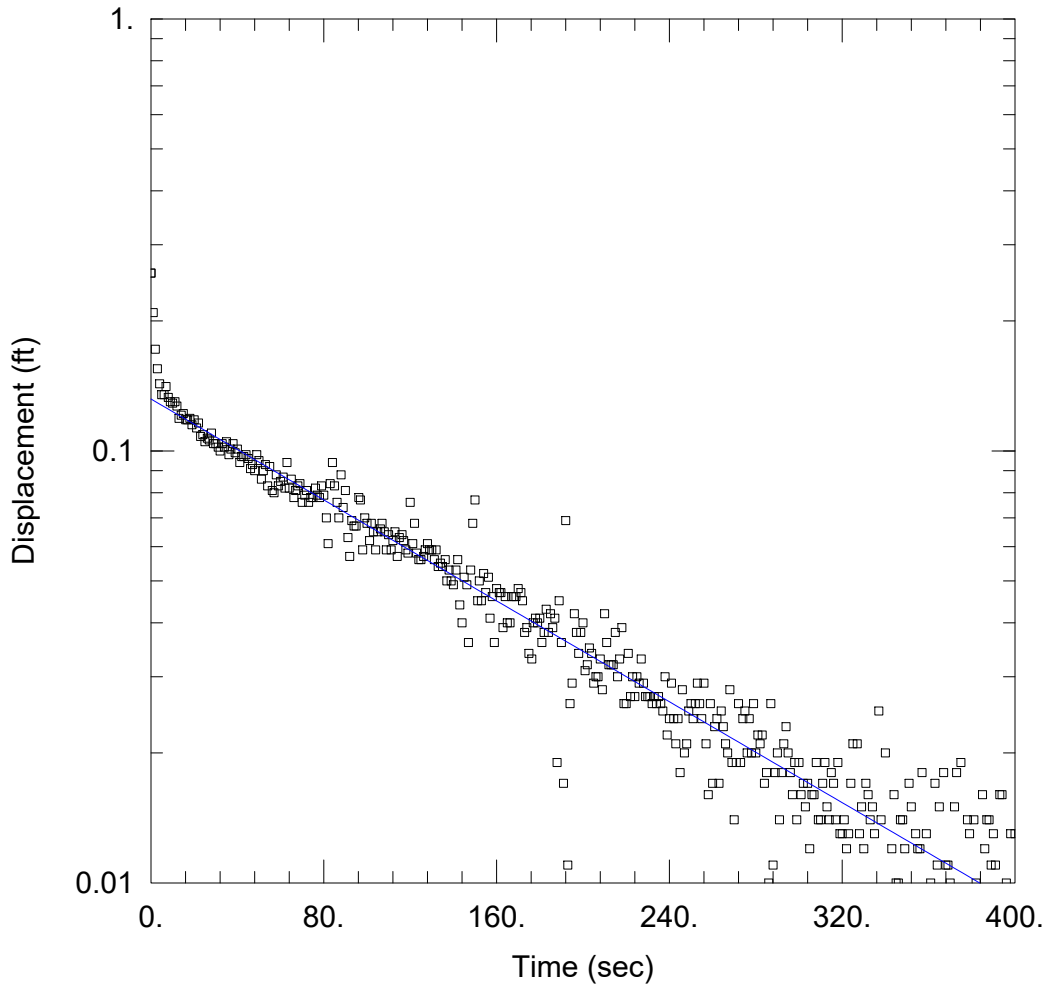
Initial Displacement: 0.258 ft
 Total Well Penetration Depth: 7.02 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 7.02 ft
 Screen Length: 7.02 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.000734$ cm/sec

Solution Method: Bower-Rice
 $y_0 = 0.1319$ ft



MW-01 TEST 1

Data Set: \\...\MW-01_Test1.aqt
 Date: 06/03/21

Time: 10:31:25

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-01
 Test Date: 5/20/2021

AQUIFER DATA

Saturated Thickness: 22 ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-01)

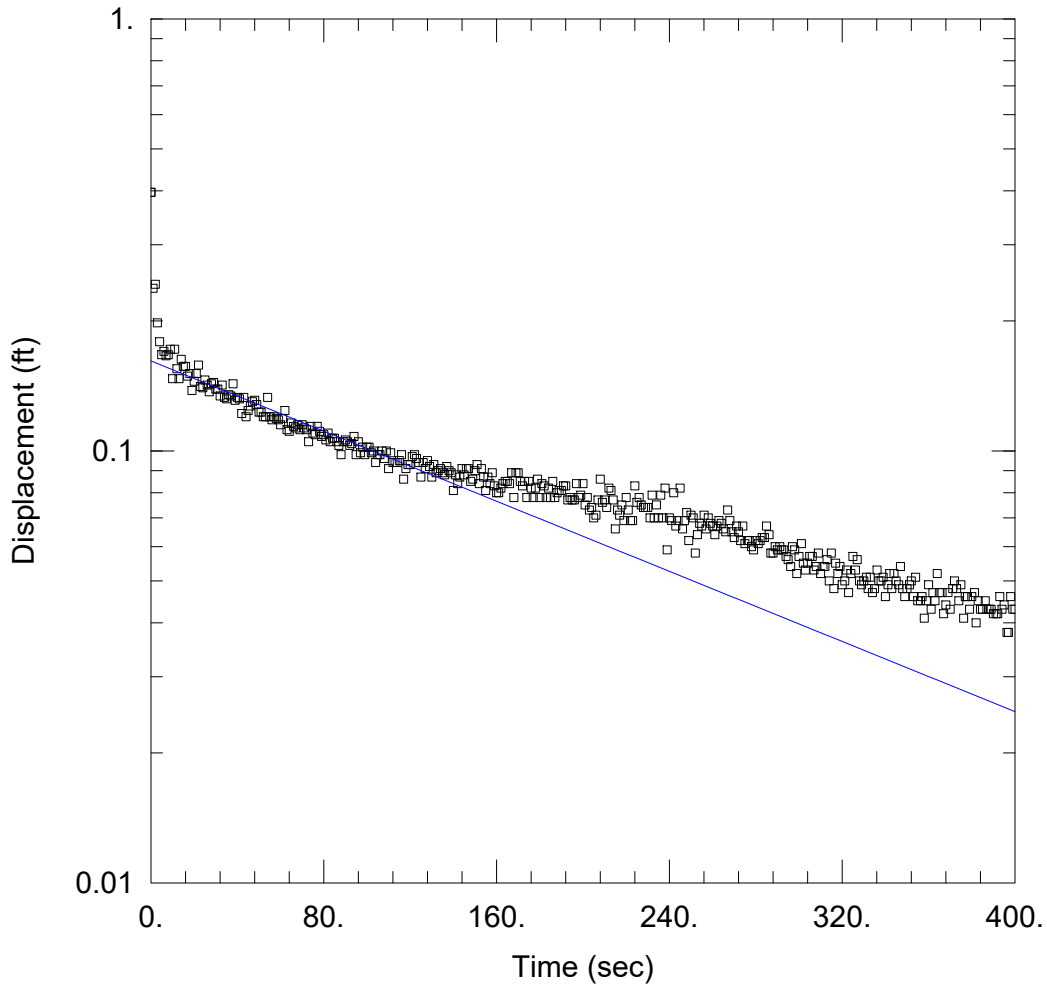
Initial Displacement: 0.258 ft
 Total Well Penetration Depth: 7.02 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 7.02 ft
 Screen Length: 7.02 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.00113$ cm/sec

Solution Method: Hvorslev
 $y_0 = 0.1319$ ft



MW-01 TEST 2

Data Set: \...\MW-01_Test2.aqt
 Date: 06/03/21

Time: 10:33:14

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-01
 Test Date: 5/20/2021

AQUIFER DATA

Saturated Thickness: 22. ft

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-01)

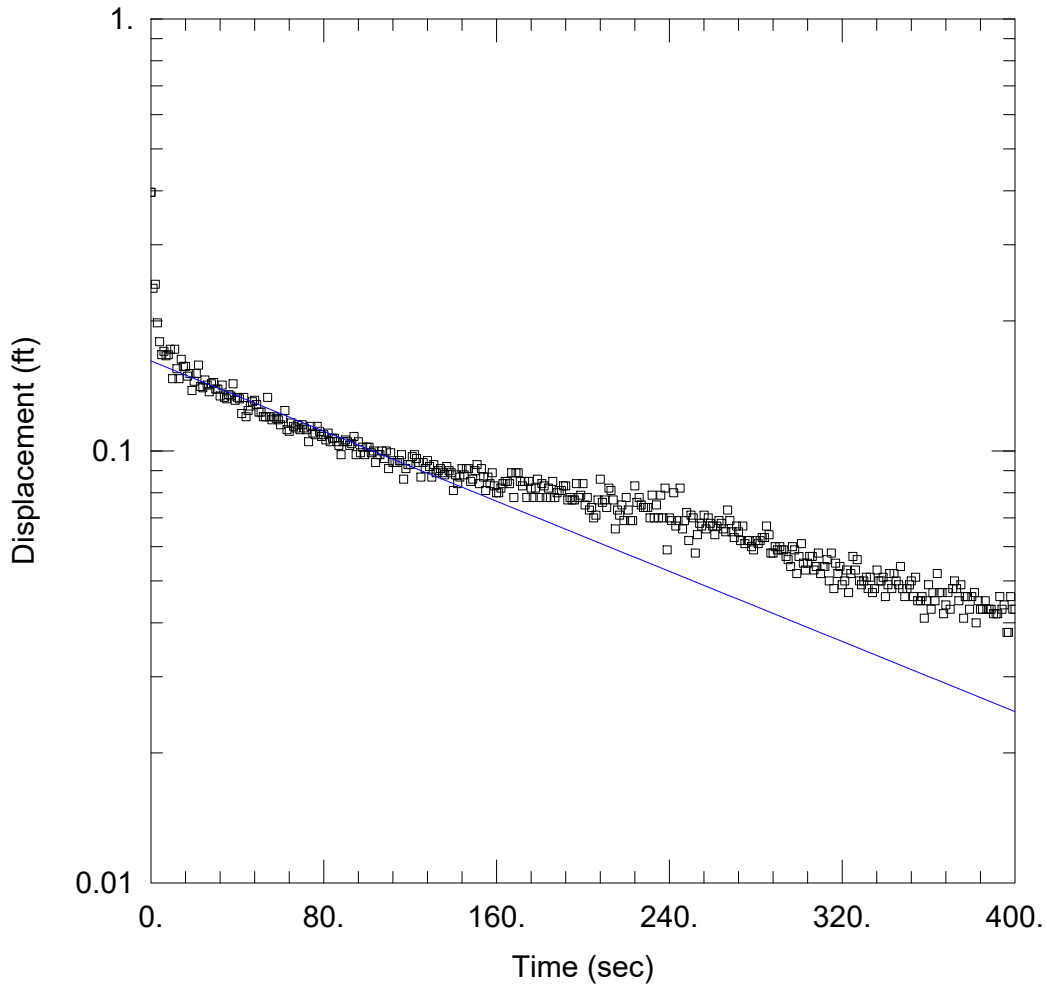
Initial Displacement: 0.397 ft
 Total Well Penetration Depth: 7.02 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 7.02 ft
 Screen Length: 7.02 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 K = 0.0005101 cm/sec

Solution Method: Bower-Rice
 y0 = 0.1615 ft



MW-01 TEST 2

Data Set: \...\MW-01_Test2.aqt
 Date: 06/03/21

Time: 10:32:42

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-01
 Test Date: 5/20/2021

AQUIFER DATA

Saturated Thickness: 22 ft

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-01)

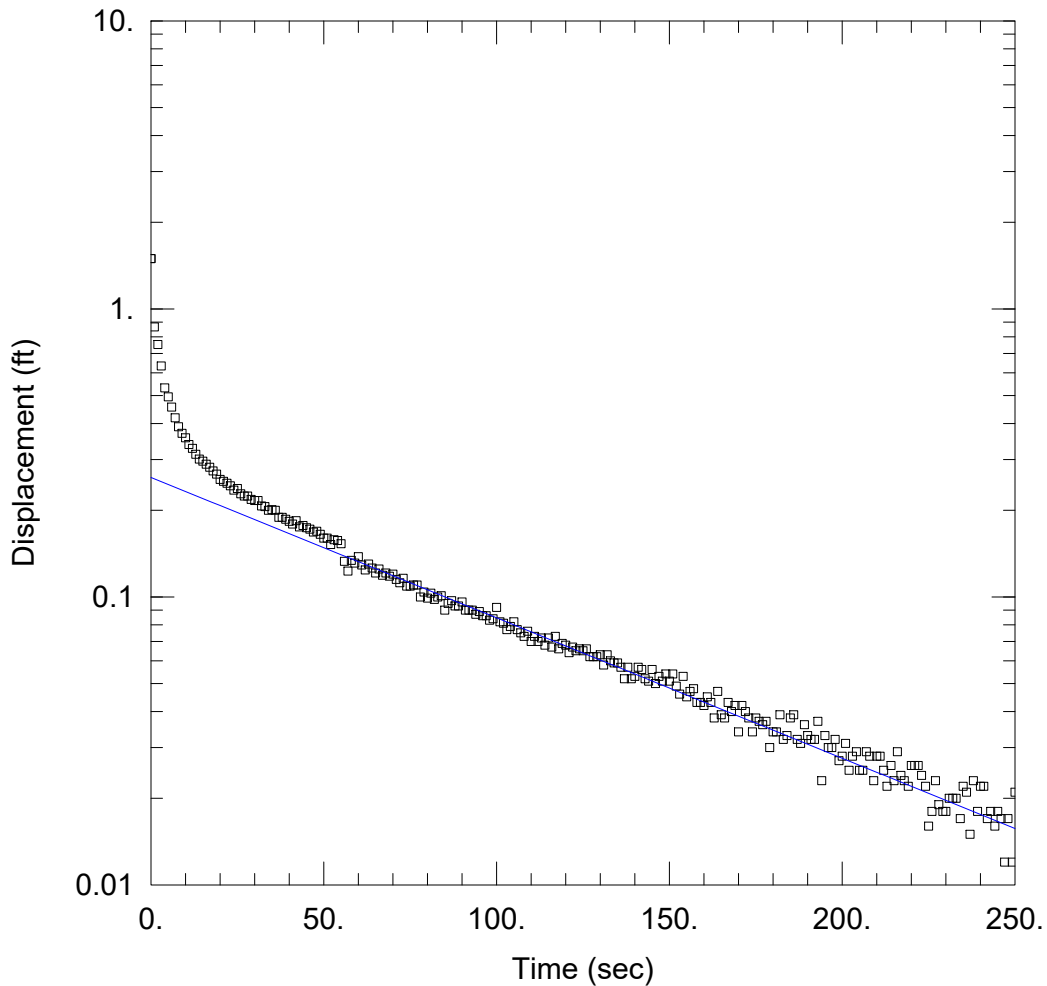
Initial Displacement: 0.397 ft
 Total Well Penetration Depth: 7.02 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 7.02 ft
 Screen Length: 7.02 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 K = 0.000785 cm/sec

Solution Method: Hvorslev
 y0 = 0.1615 ft



MW-03 TEST 1

Data Set: \\...\MW-03_Test1.aqt
 Date: 06/03/21

Time: 10:42:38

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-03
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-03)

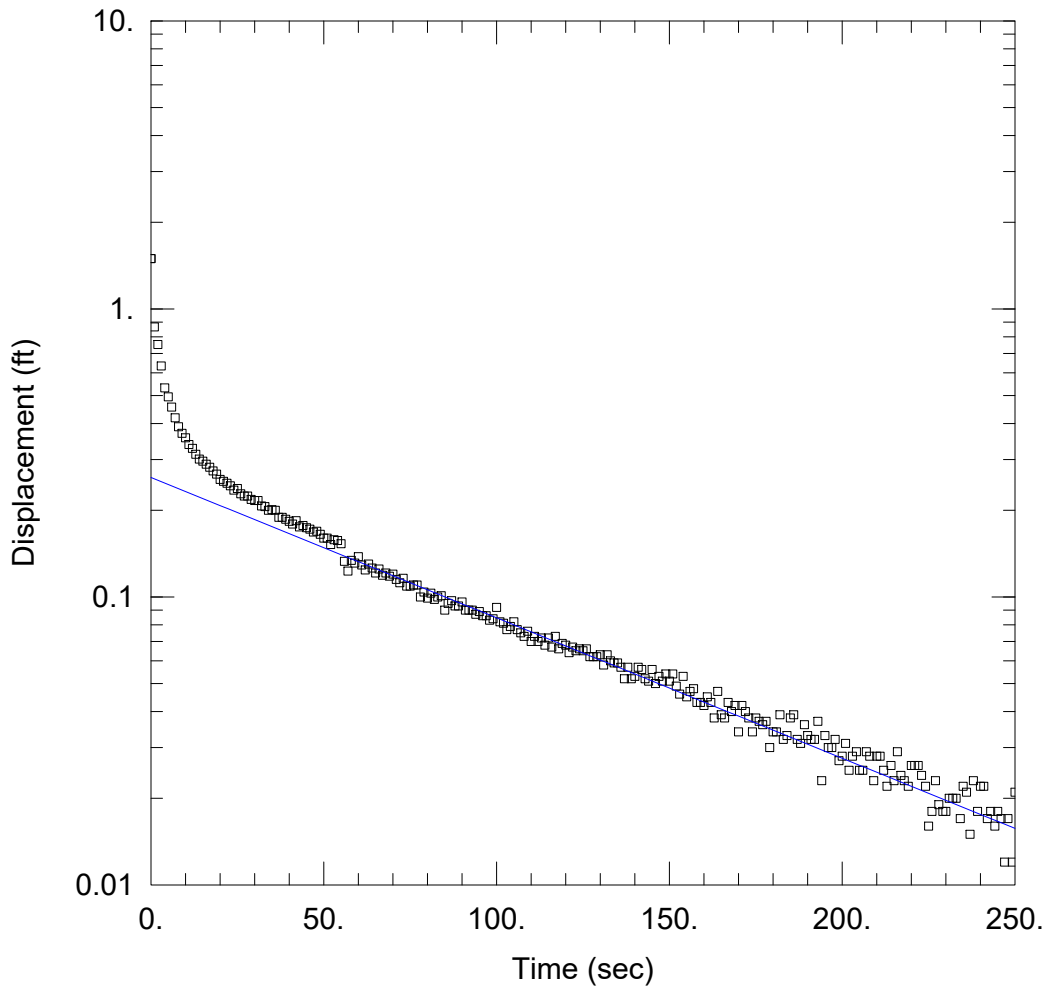
Initial Displacement: 1.495 ft
 Total Well Penetration Depth: 8.94 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 8.94 ft
 Screen Length: 8.94 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 K = 0.001044 cm/sec

Solution Method: Bower-Rice
 y0 = 0.2599 ft



MW-03 TEST 1

Data Set: \\...\MW-03_Test1.aqt
 Date: 06/03/21

Time: 10:43:18

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-03
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-03)

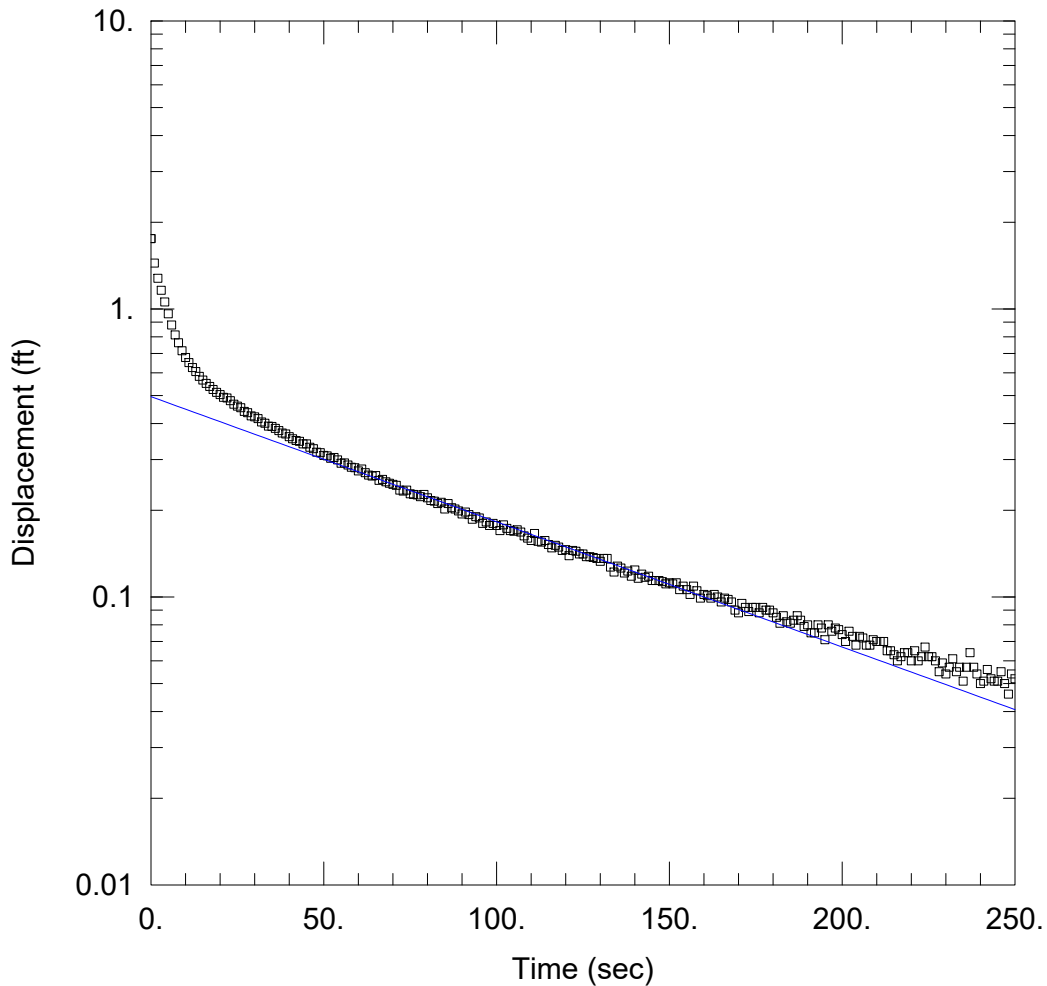
Initial Displacement: 1.495 ft
 Total Well Penetration Depth: 8.94 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 8.94 ft
 Screen Length: 8.94 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.001578$ cm/sec

Solution Method: Hvorslev
 $y_0 = 0.2598$ ft



MW-03 TEST 2

Data Set: \...\MW-03_Test2.aqt
 Date: 06/03/21

Time: 10:46:24

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-03
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-03)

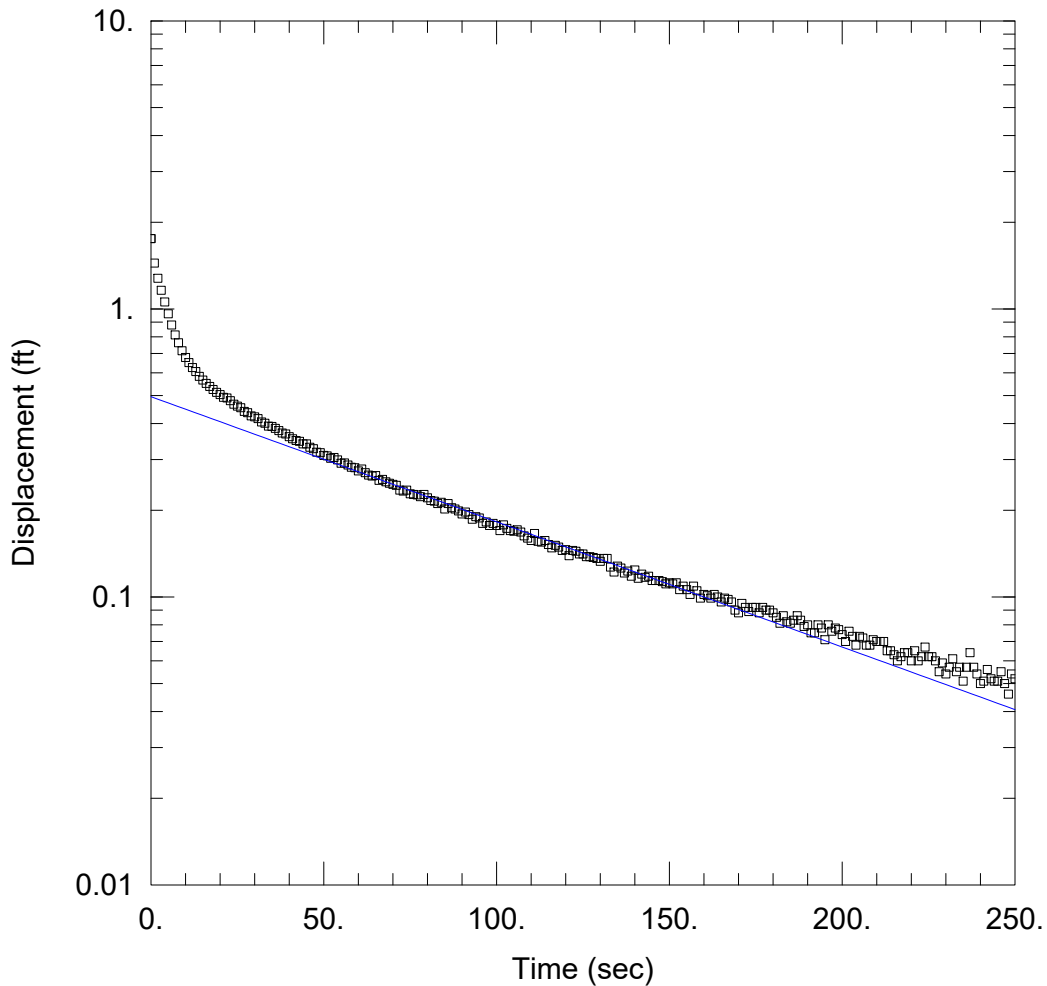
Initial Displacement: 1.755 ft
 Total Well Penetration Depth: 8.94 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 8.94 ft
 Screen Length: 8.94 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 K = 0.000931 cm/sec

Solution Method: Bower-Rice
 y0 = 0.4958 ft



MW-03 TEST 2

Data Set: \...\MW-03_Test2.aqt
 Date: 06/03/21

Time: 10:47:10

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-03
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-03)

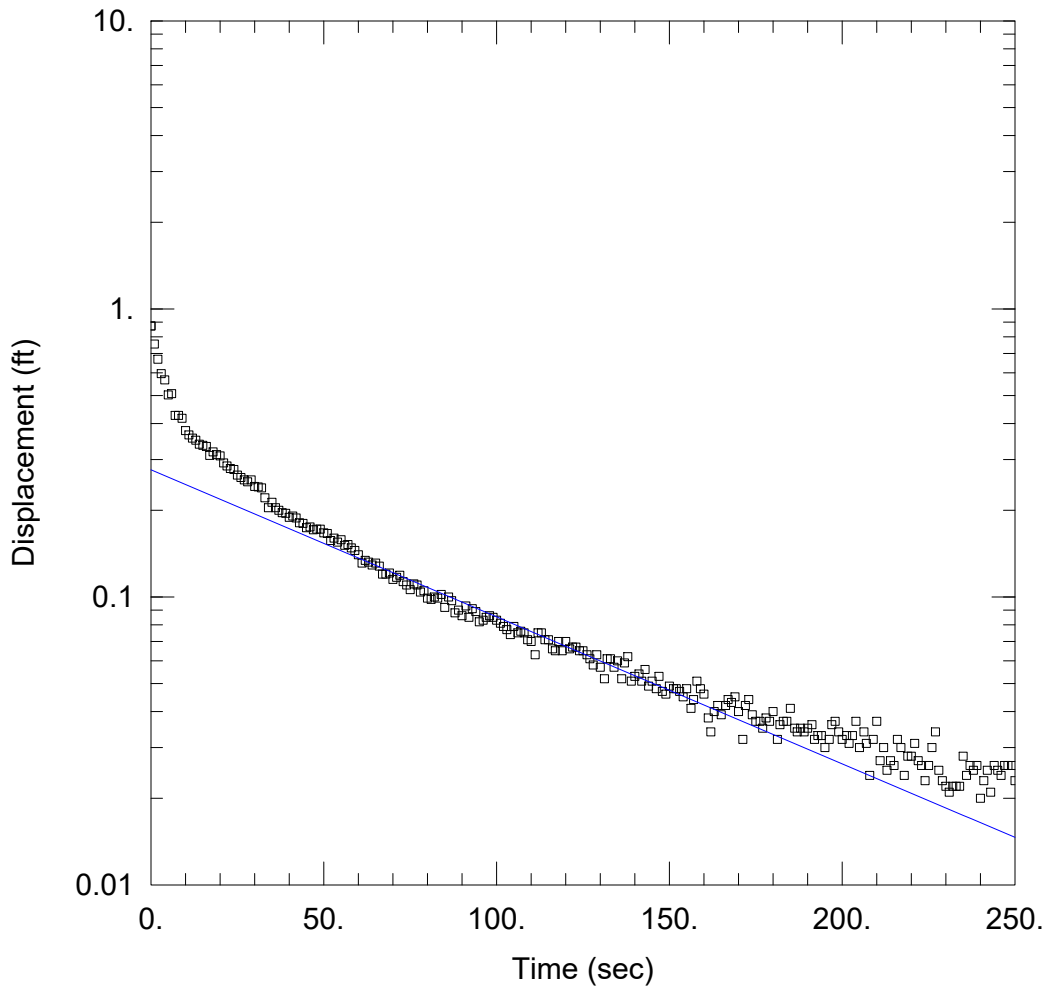
Initial Displacement: 1.755 ft
 Total Well Penetration Depth: 8.94 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 8.94 ft
 Screen Length: 8.94 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 K = 0.001407 cm/sec

Solution Method: Hvorslev
 y0 = 0.4958 ft



MW-03 TEST 3

Data Set: \...\MW-03_Test3.aqt
 Date: 06/03/21

Time: 10:49:06

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-03
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-03)

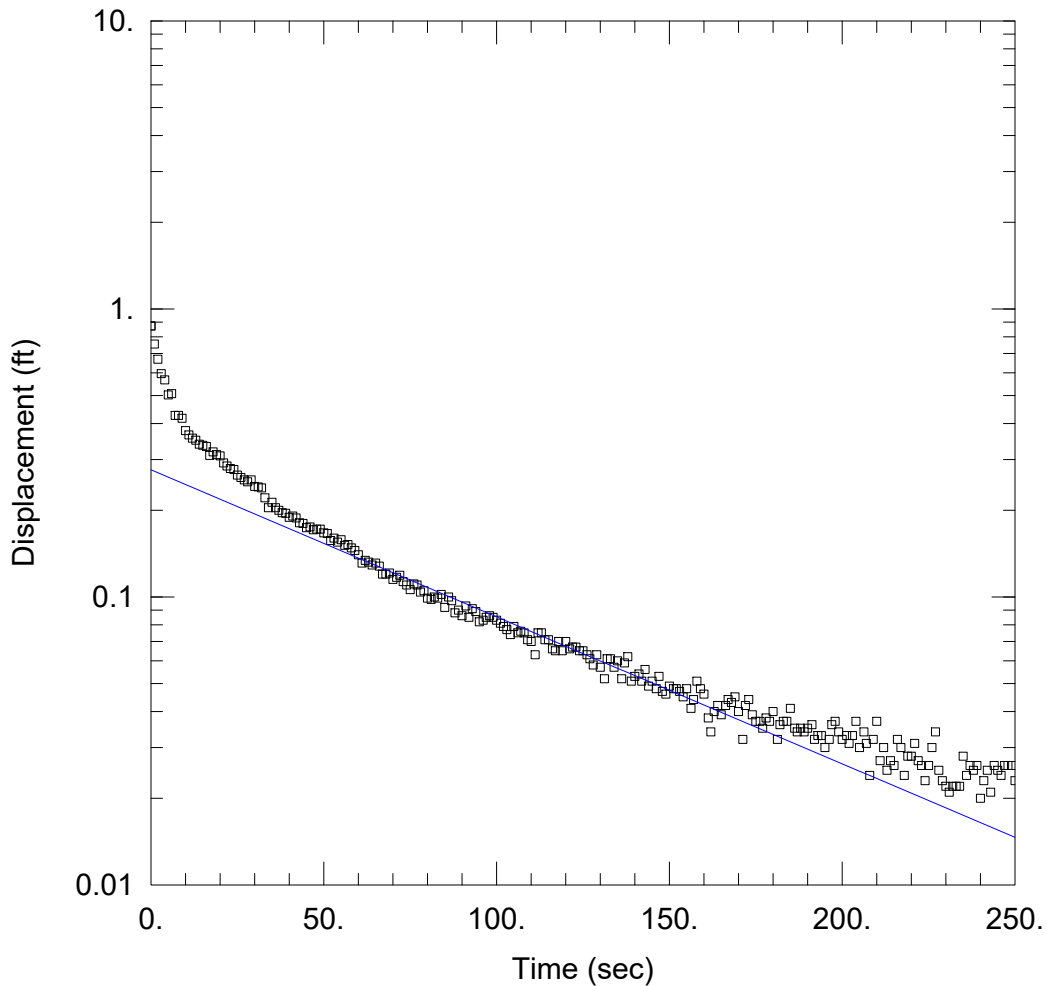
Initial Displacement: 0.873 ft
 Total Well Penetration Depth: 8.94 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 8.94 ft
 Screen Length: 8.94 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.001093$ cm/sec

Solution Method: Bower-Rice
 $y_0 = 0.2762$ ft



MW-03 TEST 3

Data Set: \\...\MW-03_Test3.aqt
 Date: 06/03/21

Time: 10:49:49

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-03
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 24. ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-03)

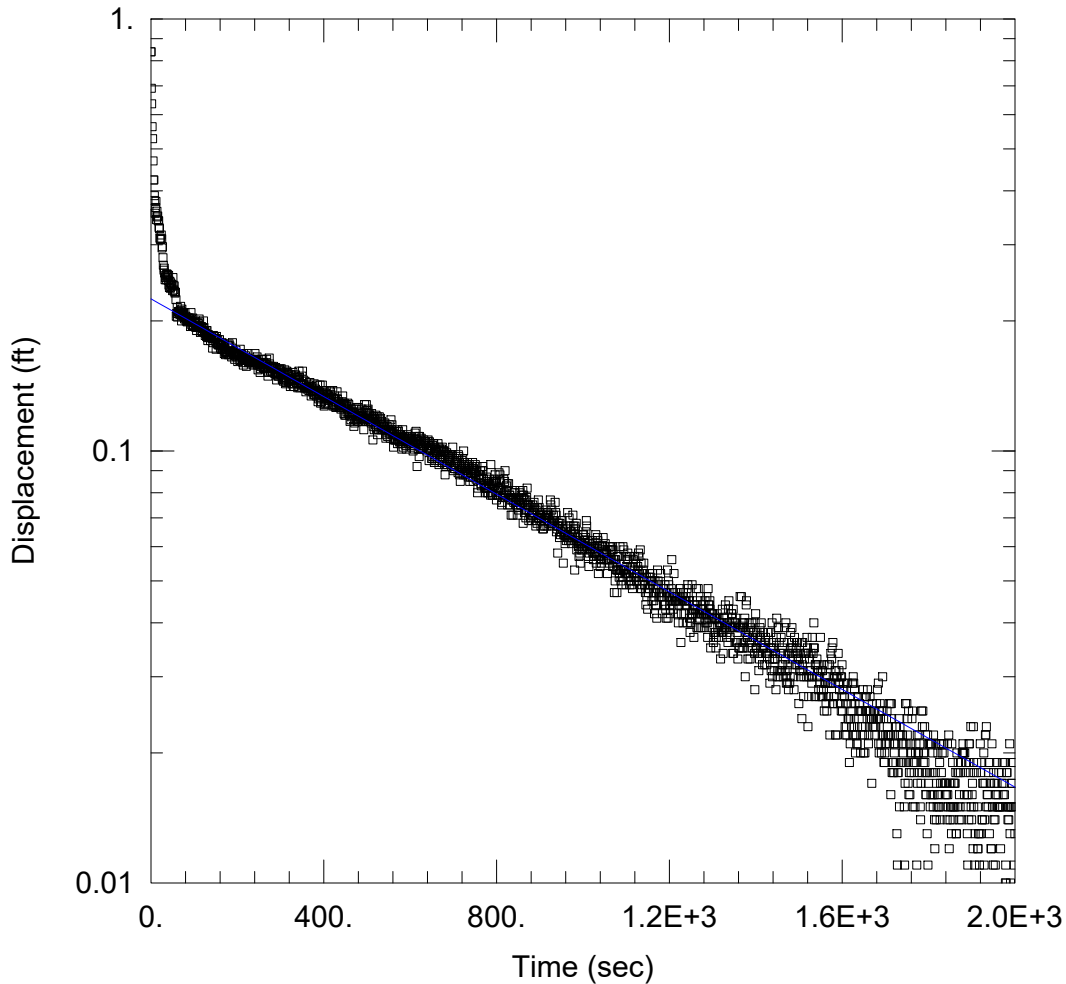
Initial Displacement: 0.873 ft
 Total Well Penetration Depth: 8.94 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 8.94 ft
 Screen Length: 8.94 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.001652$ cm/sec

Solution Method: Hvorslev
 $y_0 = 0.2762$ ft



MW-05 TEST 1

Data Set: \...\MW-05_Test1.aqt
Date: 06/03/21

Time: 10:53:45

PROJECT INFORMATION

Company: TRC
Client: RockGen
Project: 437865
Location: Christiana, WI
Test Well: MW-05
Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 25 ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-05)

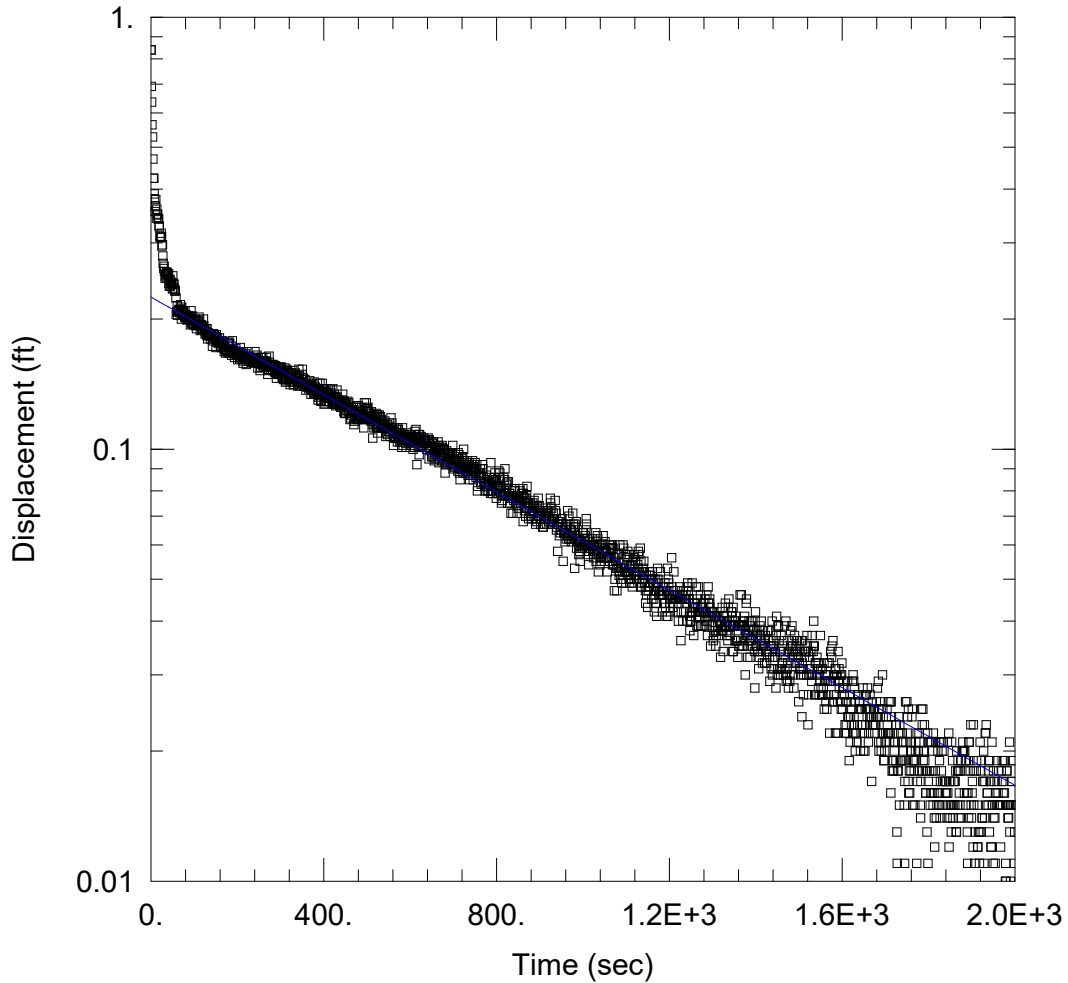
Initial Displacement: 0.839 ft
Total Well Penetration Depth: 9.84 ft
Casing Radius: 0.085 ft

Static Water Column Height: 9.84 ft
Screen Length: 9.84 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0001134$ cm/sec

Solution Method: Bower-Rice
 $y_0 = 0.2249$ ft



MW-05 TEST 1

Data Set: ...\MW-05_Test1.aqt
 Date: 06/03/21

Time: 12:41:10

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-05
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 25. ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-05)

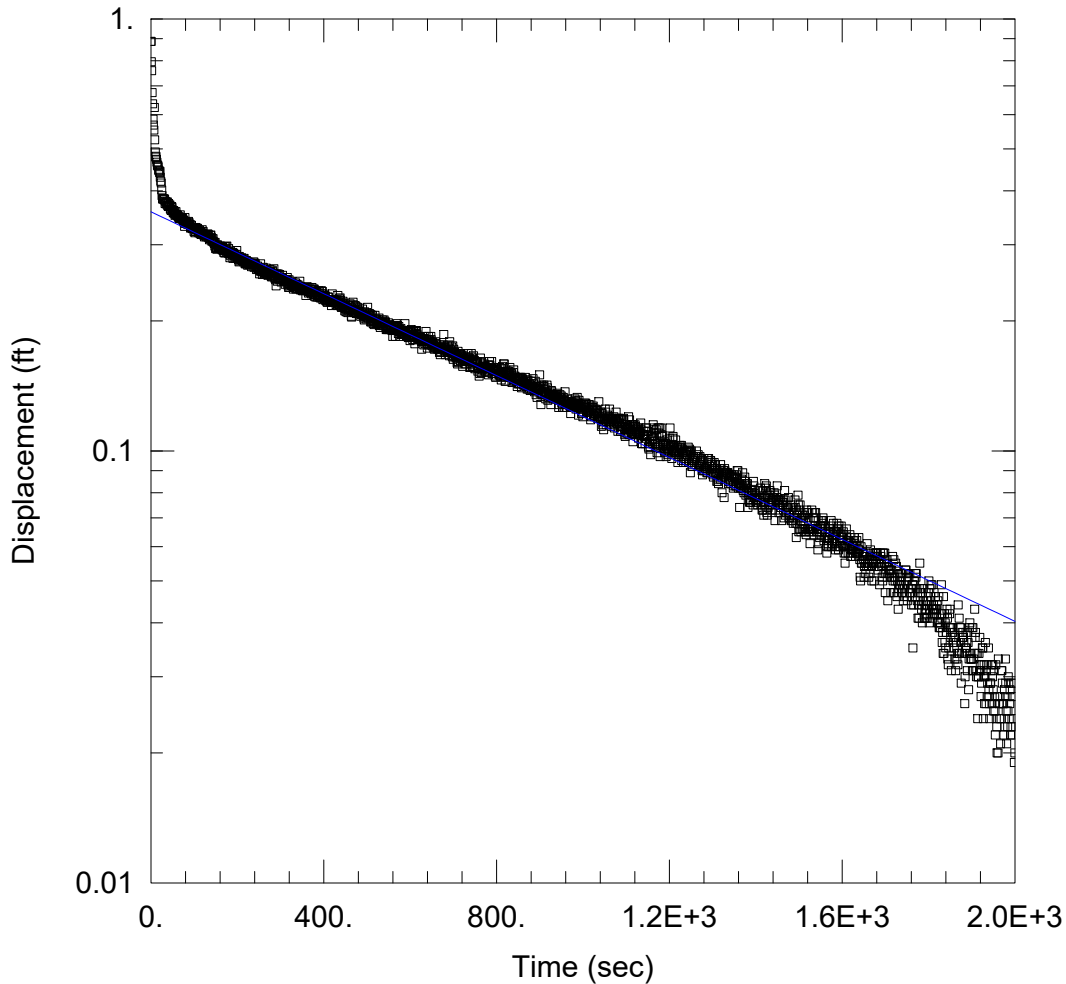
Initial Displacement: 0.839 ft
 Total Well Penetration Depth: 9.84 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 9.84 ft
 Screen Length: 9.84 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0001702$ cm/sec

Solution Method: Hvorslev
 $y_0 = 0.2249$ ft



MW-05 TEST 2

Data Set: \\...MW-05_Test2.aqt
 Date: 06/03/21

Time: 10:55:52

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-05
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 25. ft

Anisotropy Ratio (Kz/Kr): 0.5

WELL DATA (MW-05)

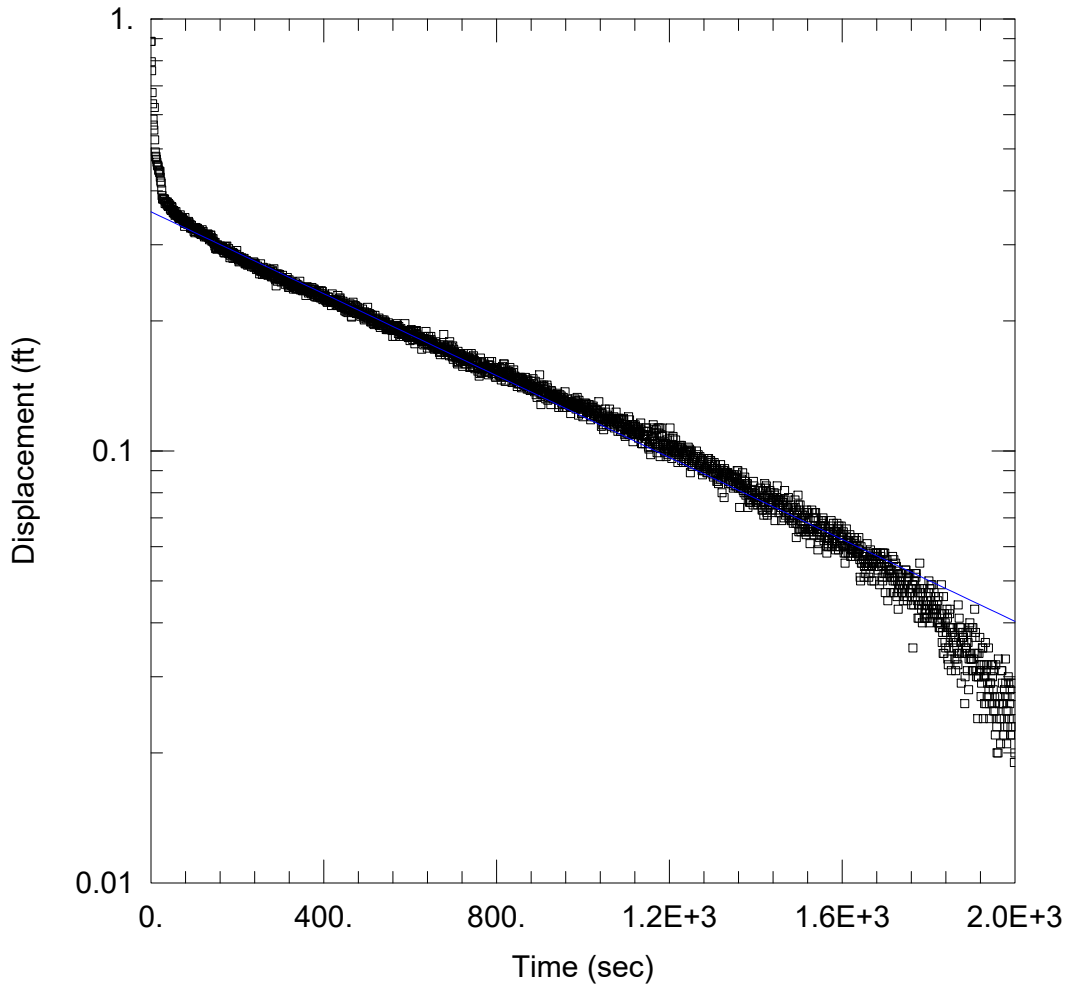
Initial Displacement: 0.887 ft
 Total Well Penetration Depth: 9.84 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 9.84 ft
 Screen Length: 9.84 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 K = 9.51E-5 cm/sec

Solution Method: Bower-Rice
 y0 = 0.3577 ft



MW-05 TEST 2

Data Set: \\...MW-05_Test2.aqt
 Date: 06/03/21

Time: 11:02:48

PROJECT INFORMATION

Company: TRC
 Client: RockGen
 Project: 437865
 Location: Christiana, WI
 Test Well: MW-05
 Test Date: 5/21/2021

AQUIFER DATA

Saturated Thickness: 25. ft

Anisotropy Ratio (K_z/K_r): 0.5

WELL DATA (MW-05)

Initial Displacement: 0.887 ft
 Total Well Penetration Depth: 9.84 ft
 Casing Radius: 0.085 ft

Static Water Column Height: 9.84 ft
 Screen Length: 9.84 ft
 Well Radius: 0.25 ft
 Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
 $K = 0.0001428$ cm/sec

Solution Method: Hvorslev
 $y_0 = 0.3577$ ft

Appendix E: Site-Specific Soil Criteria Calculations

**Table E.1: Chemical-Specific Parameters for Leaching Chemicals of Potential Concern
RockGen Energy Center
Town of Christiana, Dane County, WI
TRC Project # 437865.0000.0000, BRRTS #02-13-587341**

Soil Leaching COPC	CAS Number	Molecular Weight (g/mol)	Aqueous Solubility Limit (mg/L)	Ref	Henry's Law Constant (unitless)	Ref	Partition Coefficients (log Kow) (L/kg)	Ref	Partition Coefficients (log Koc) (L/kg)	Ref	Recommended Groundwater Enforcement Std. (ng/L)	Ref	HAL (ng/L)	Ref	Target GW Standard (ng/L)	Target GW Standard (mg/L)	Basis
PFOS	1763-23-1	500.1	570	CompTox, ITRC	7.38E-10	CompTox	5.61E+00	CompTox	2.4 - 3.7	ITRC	20	WI	70	EPA	20	0.00002	WI
PFOA	335-67-1	414.1	5,673	CompTox	7.87E-09	CompTox	3.10E+00	CompTox	1.89 - 2.63	ITRC	20	WI	70	EPA	20	0.00002	WI

Notes:

COPC = chemical of potential concern
g/mol = grams per mol
L/kg = liters per kilogram
mg/L = milligrams per liter
ng/L = nanograms per liter
Std. = standard
HAL = health advisory level

Prepared by: C. Casaceli-Johnson, 6/9/2021
Checked by: J. Ramey, 9/7/2021

References:

- ITRC PFAS Technical and Regulatory Guidance Document. Table 4-1. Physical and Chemical Properties of Selected PFAS. April 2020. To access the current version of this file, visit the ITRC PFAS web page available on-line at: <http://pfas-1.itrcweb.org>.
- USEPA CompTox Chemicals Dashboard. Available online at: <https://comptox.epa.gov/dashboard>
- Wisconsin Department of Health Services (DHS). 2019. Recommended Groundwater Standards. Available at: <https://www.dhs.wisconsin.gov/chemical/pfas.htm#:~:text=Wisconsin%20has%20sent%20DNR%20recommended,and%20PFOS%20individually%20and%20combined.&text=The%20EPA%20does%20not%20have,levels%20of%20PFOA%20and%20PFOS>
- USEPA Drinking Water Health Advisories for PFOA and PFOS. Available on-line at: [Drinking Water Health Advisories for PFOA and PFOS | Ground Water and Drinking Water | US EPA](#)

Table E.2: Summary of Fate and Transport Modeling Inputs
RockGen Energy Center
Town of Christiana, Dane County, WI
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Definition	Site-Specific Inputs	Units	Reference
Soil Type	Sand	-	Site-specific; sand and gravel generally present in source area
Soil bulk density, unsaturated soil	1.7	g-soil / cm ³ - soil	GSI, 2013 (default value for sand)
Volumetric air content, vadose zone soils	0.33	cm ³ - air / cm ³ -soil	GSI, 2013 (default value for sand)
Volumetric water content, vadose zone soils	0.08	cm ³ - water / cm ³ -soil	GSI, 2013 (default value for sand)
Fraction of Organic Carbon	0.001	g-carbon / g-soil	GSI, 2013 model default value
Depth to groundwater	55 (16.76)	ft (m)	Site-specific; based on field notes
Top of affected soil	0	ft(m)	Default value; conservatively assumes impacts present at surface
Base of affected soil	13 (3.96)	ft (m)	Site-specific. Depth to bedrock ranges from about 1-13 ft bgs based on drilling samples and geoprobe refusal. However, there was 13 ft of sand/gravel above bedrock for the source area well.
Hydraulic conductivity (K)	1.47E+02	cm/day	Site-specific; manual/automatic fit solution in AQTESOLV. Maximum value from MW-01, MW-03 and MW-05 based on the Hvorsley Solution results (1.7E-03 cm/sec)
Hydraulic gradient (i)	0.00167	ft / ft	Site-Specific; calculated between the head at MW-04 and MW-05
Groundwater Darcy Velocity = K x i	0.245	cm/day	Calculated, based on inputs above
Distance from source area to nearest POC or POE			
- Area 1 (AFFF Inspection Testing Area):	383 (116.74)	ft (m)	Site-specific; distance from source Area 1 to property line. Area 1 simulates flow from the pink area used for AFFF testing.
- Area 2 (Western Swale):	490 (149.35)	ft (m)	Site-specific; distance from source Area 2 to property line. Area 2 simulates flow from the drainage swale west of the pink area.
- Area 3 (Storm Sewer Outlet):	644 (196.29)	ft (m)	Site-specific; distance from source Area 3 to property line. Area 3 simulates flow from the wooded area.
Saturated thickness	24 (7.32)	ft (m)	Site specific; average value from MW-01, MW-03 and MW-05 based on height of water column in well + 15 feet.
pH of soil	7	unitless	Assumes neutral pH
Width of soil source area/groundwater plume perpendicular to groundwater flow			
- Area 1:	116 (35.36)	ft (m)	Site-specific
- Area 2:	380 (115.82)	ft (m)	Site-specific
- Area 3:	200 (60.96)	ft (m)	Site-specific
Length of soil source area parallel to groundwater flow			
- Area 1:	75 (22.86)	ft (m)	Site-specific
- Area 2:	25 (7.62)	ft (m)	Site-specific
- Area 3:	300 (91.44)	ft (m)	Site-specific
Infiltration rate	9.14	cm/yr	10% annual precip (b)

Notes:

1. Obtained using GIS measurements
2. Average annual precipitation value = 91.44 cm/yr (equivalent to 36 inches/yr) ([https://www.bestplaces.net/climate/city/wisconsin/christiana_\(dane_cnty\)\)](https://www.bestplaces.net/climate/city/wisconsin/christiana_(dane_cnty))). Therefore, approximately 10 percent of this precipitation value (9.14 cm) chosen to represent infiltration.

Prepared by: C. Casaceli-Johnson, 6/9/2021

Checked by: J. Ramey, 9/7/2021

Table E.3: Comparison of the MDC to the Site-Specific Leaching SSLs
RockGen Energy Center
Town of Christiana, Dane County, WI
TRC Project # 437865.0000.0000, BRRTS #02-13-587341

Soil Leaching COPC	Area 1 (AFFF Inspection Testing Area)		Area 2 (Western Swale)		Area 3 (Storm Sewer Outlet)	
	Area 1 Soil MDC (mg/kg)	Modeled SSL (mg/kg) [a]	Area 2 Soil MDC (mg/kg)	Modeled SSL (mg/kg) [a]	Area 3 Soil MDC (mg/kg)	Modeled SSL (mg/kg) [a]
PFOS	ND	>1.7E+02	2.30E-04	>1.7E+02	4.80E-04	>1.7E+02
PFOA	6.5E-04	>7.1E+02	6.50E-03	>7.1E+02	4.80E-03	>7.1E+02

Notes:

[a] Calculated using GSI's RBCA Tool Kit for Chemical Releases, Version 2.6. GSI Environmental, Houston, Texas.

> = greater than soil saturation limit.

COPC = chemical of potential concern.

MDC = maximum detected concentration.

mg/kg = milligrams per kilogram.

ND = not detected.

SSL = soil screening level (protective of groundwater).

Prepared by: C. Casaceli-Johnson, 6/9/2021

Checked by: J. Ramey, 9/7/2021