

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 150 N. Patrick Blvd., Suite 180		City Brookfield	State WI
			ZIP Code 53045-5854
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 150 N. Patrick Blvd., Suite 180		City Brookfield	State WI
			ZIP Code 53045
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: 04/09/2021

Reason: Field investigation and subcontractors have been coordinated to start the investigation during the week of 4/19/21.

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.

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

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

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

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

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

❖ **Include a fee of \$700.**

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

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: 03/12/2019

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: 03/10/2021

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: SDS, Foam Inspection Reports

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.

Jeff Ramey

Signature

Senior Project Manager

Title

4/2/2021

Date Signed

(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

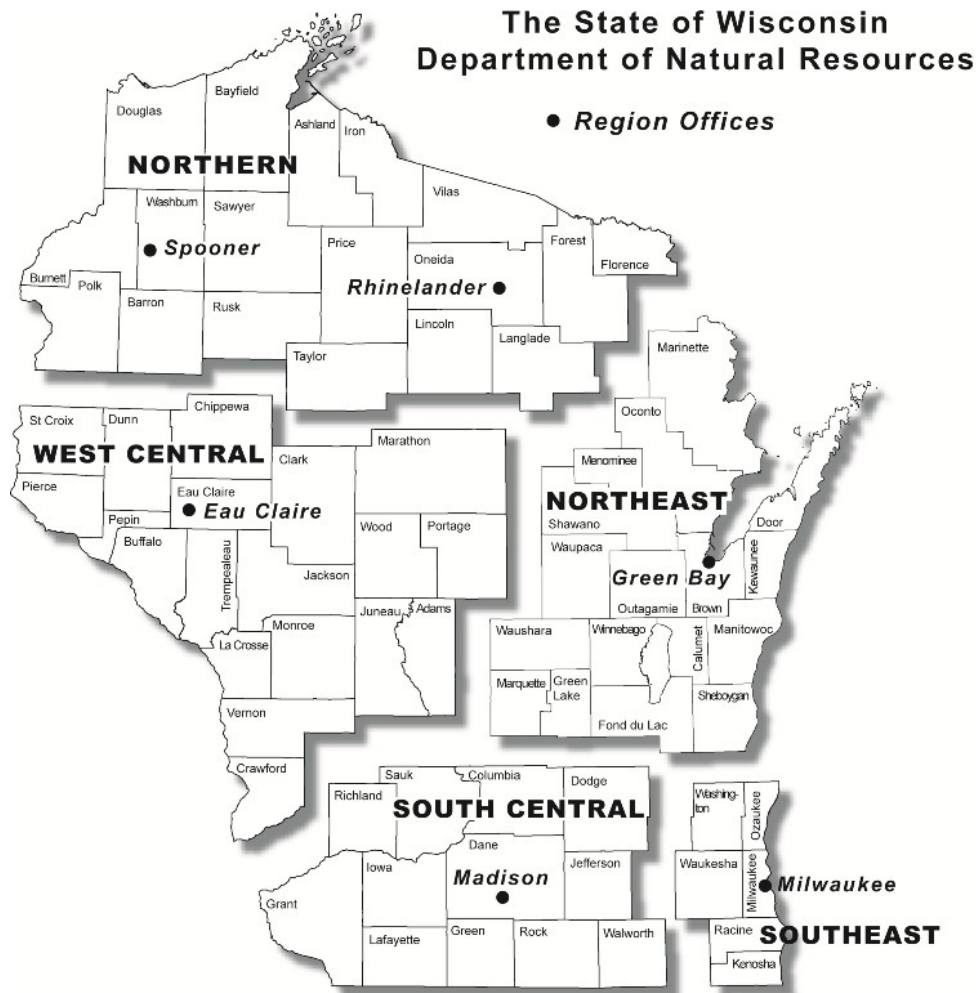
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

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 Work Plan

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

April 2021

BRRTS #02-13-587341

Prepared For:

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

Prepared By:

TRC
150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045

Lydia Auner
Project Geologist

Alia Enright, P.E. (WI)
Project Engineer

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

Jeff Ramey
Senior Project Manager

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Appendix D: Aherns Foam System Inspections
Appendix E: Well Construction Records and Septic System Details
Appendix F: Laboratory Method Detection Limits



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

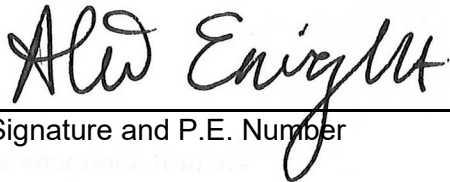
Environmental Consultant

TRC Environmental Corporation (TRC)
150 North Patrick Blvd, Suite 180
Brookfield, WI 53045

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

1.2 Professional Engineer Certification

I, Alia Enright, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all 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 and P.E. Number



P.E. Stamp

1.3 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

April 2, 2021
Date

2.0 Introduction

2.1 Site Location

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 (**Figure 1**). 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 $\frac{1}{4}$ of the NW $\frac{1}{4}$ 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 a former homestead (including house and barn) and agricultural land are located on the southern portion of the property. 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 (**Appendix A**). 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 started construction 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). 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. On March 10, 2021, Pace Analytical Services, Inc. (Pace) collected water samples on behalf of RockGen from four points within the facility connected to the potable well. Sample analysis was expedited for the Wisconsin Department of Natural Resources (WDNR) list of 33 PFAS analytes. On March 16, 2021, Pace

issued laboratory report WC11001 (**Appendix B**) to RockGen and the sample results indicated PFAS were detected in the samples, as discussed in Section 3.1.

The PFAS detected in the potable well were reported to the 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.

2.3 Purpose and Scope

The purpose of this site investigation is to further define the nature, degree, and extent of PFAS at the Site. TRC, on behalf of RockGen Energy, LLC, has prepared this Site Investigation Work Plan (SIWP) to meet the following objectives:

- Define the nature, degree, and extent of PFAS in soil and groundwater at the Site.
- Characterize the groundwater flow direction and hydraulic conductivity of materials where PFAS are found in groundwater.

The results of this investigation will dictate whether additional investigation, interim action, and/or remedial action (e.g., soil removal, capping) is required to address the environmental impacts and achieve Site closure. Soil removal and capping is discussed as a possible interim action in Section 5.

3.0 Site Conditions

3.1 Previous Investigations

On March 10, 2021, Pace collected four samples from points supplied by the potable well at the Site. Two of the samples were unfiltered water (Raw Tap and Kitchen Tap) and the other two were filtered water (Filter Tap and Fridge Tap). A 3M NSF-certified filter cartridge (type Bronze, designed for filtering water, ice, and for coffee) filters the raw potable well water for the primary drinking water, ice maker, and coffee maker at the facility. A PFAS field blank was not collected during the sampling event. All four samples were analyzed for the WDNR's list of 33 PFAS analytes using Pace's South Carolina laboratory's standard operating procedure (SOP). This SOP has been submitted to the WDNR for NR 149 certification for non-potable water PFAS analysis, but certification by WDNR has not yet been granted.

PFAS were detected in the four water samples, as summarized in **Table 1**. The laboratory report is included as **Appendix B**. There were fewer and lower concentrations of PFAS compounds detected in the filtered water samples (Filter Tap and Fridge Tap) than the unfiltered samples (Raw Tap and Kitchen Tap). Of the 33 WDNR PFAS analyzed, 14 compounds were detected in the unfiltered samples, with the highest concentration of 3,000 nanograms per liter (ng/L) for 6:2 fluorotelomer sulfonic acid (6:2 FTS). Only two PFAS compounds were detected in the filtered water samples, with the highest concentration of 14 ng/L for 6:2 FTS. PFAS concentrations in the unfiltered water samples exceeded the proposed NR 140 enforcement standard (ES) for perfluorooctanoic acid (PFOA) of 20 ng/L, the proposed C8 combined standard of 20 ng/L and the proposed NR 140 preventive action limits (PALs) for perfluorononanoic acid (PFNA) of 3 ng/L and perfluorooctane sulfonic acid (PFOS) of 2 ng/L. No proposed NR 140 standards were exceeded in the filtered water.

3.2 Historical Use of AFFF

RockGen has a Fire Suppression System for its fuel oil storage tank that contains 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 **Figures 2** and **3**, with the fuel oil tank located inside of that exterior tank. 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.

The AFFF concentrate currently in the Fire Suppression System is Ansulite 3% AFFF (AFC-3A). Safety data sheets (SDS) are provided in **Appendix C** and include the Ansul data sheet from 2014, the SDS on file at RockGen for AFC-3A from 2018, and the most recent SDS available from the manufacturer (Ansul) from 2019. The Ansul data sheet indicates that AFC-3A is formulated from specialty fluorochemical surfactants which are considered PFAS.

Inspections of the Fire Suppression System were conducted on behalf of the previous facility owner by J.F. Ahern Co. 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 from 2008, 2009, 2012, 2014, 2015, and 2018 are provided in **Appendix D**. 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 725 gallons of AFC-3A were present in the Fire Suppression System before inspection and 710 gallons were present after inspection. The 2018 foam inspection report indicated that 530 gallons were present in the Fire Suppression System during inspection. According to Site contacts, AFFF inspection testing may have been conducted adjacent to the Fire Suppression System as indicated in **Figure 2** and **Figure 3** as the approximate area of AFFF inspection testing.

A barn fire is reported to have occurred at the farm southeast of the facility in 2017 (as reported in the state newspaper¹). There is the potential that AFFF could have been used by others in extinguishing this off-site fire.

3.3 Site Geology and Hydrogeology

Topographical information for the subject property shown on **Figure 1** indicates the site elevation is approximately 930-945 feet (ft) above mean sea level (amsl) and topography generally slopes to the southeast. A former limestone quarry is located approximately 90 ft west of the Site, which appears to intermittently contain water based on aerial imagery. 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.

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 well construction records for the three existing facility wells and two abandoned facility wells (**Appendix E**) indicate 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.

¹ Wisconsin State Journal article, April 17, 2017
https://madison.com/wsj/news/local/wind-shift-blows-fire-into-barn-in-town-of-christiana/article_d4f9eac5-196a-5be8-9325-b15f03c69a77.html

- 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.

Based on the well construction records and the proximity of the former limestone quarry, depth to bedrock is expected to be shallow (likely less than 5 ft bgs).

Depth to water at the Site is expected to be approximately 60 ft bgs based on a static water level of 59.5 ft bgs recorded on the well construction record for the potable well. The static water level in the potable well corresponds to a groundwater elevation of approximately 880 ft amsl using an approximate surface elevation of 940 ft amsl. 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, groundwater from 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).

3.4 Water Supply Wells

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 used for the power generation processes. Well construction records for these wells (**Appendix E**) 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.

3.5 Septic System Drain Field

Sanitary wastewater from the facility is routed to an on-site septic system and mound drain field. The mound drain field is located in the grassy area east of the buildings, as shown on **Figure 3**. The design of the mound drain field is included in **Appendix E**, 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 not filtered with the 3M-NSF certified system until April 31, 2021.

3.6 Storm Sewer

Surface water from the AFFF inspection testing area and surrounding fire protection area drains into a storm sewer inlet located to the northwest of the testing area, as shown on **Figure 2** and **Figure 3**. The storm sewer outlet is located near the northwest corner of the Site, west of the Site boundary (outside of the fenced area), as shown on **Figure 2**.

4.0 Site Investigation Plan

The results of the potable water sampling completed in March 2021 indicate PFAS present in the Site potable well, as discussed in Section 3.1. The presence of PFAS-containing AFFF in the Fire Suppression System on Site and associated AFFF inspection testing near the Fire Suppression System has been identified as a potential source of the PFAS detected in the Site's potable water supply well. Further investigation is needed to determine if the facility is being affected by any off-site sources and determine the nature, degree, and extent of the PFAS impacts to soil and groundwater, if any, from the Site. The proposed investigation plan is shown on **Figure 2** and **Figure 3**. A summary of the sampling and analysis plan for the initial soil and groundwater sampling is included in **Table 2**. Proposed sampling locations will be modified if required due to site access limitations and based on observations made during the site investigation.

4.1 Soil Investigation

The soil investigation will focus on the area where foam inspections were conducted adjacent to the Fire Suppression System, the areas near the inlet and outlet of the storm sewer that drains the AFFF inspection testing area, and the septic mound area. These areas are indicated on **Figure 2** and **Figure 3**. Sampling will be conducted to the top of bedrock using a direct-push technology at up to 22 locations and samples will be analyzed for PFAS using a certified lab under NR 149 and list of 33 PFAS analytes. Additional soil borings may be installed based on field observations.

Samples 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 will be composited from the 0-2 ft bgs interval, or from other intervals based on field observations. The final locations of soil samples near the inlet and outlet of the storm sewer that drains the AFFF inspection testing area will be determined based on Site topography.

Four soil borings will be installed in the septic mound area, as shown on **Figure 3**. Two borings will be installed along the centerline of the mound, one near each end of the distribution pipe and gravel bed. For the borings near the centerline, soil samples will be collected from the 2-foot depth interval directly below the gravel bed. The two soil borings beyond the lateral edges of the gravel bed will be installed to the top of bedrock and samples will be collected from the 2 ft interval above bedrock.

Soil sampling will be conducted in accordance with TRC's SOP for Soil Sampling, which includes modifications for PFAS sampling. Soil sampling will include:

- Sampling continuously across the length of the boring.
- Logging the soil cores.
- Submitting soil samples collected from each boring for laboratory analysis of PFAS.
- Abandoning each borehole following sampling.

As needed, expedited analytical results for the PFAS soil samples will be requested of the laboratory to reduce turn-around time and determine if an interim action for soil removal and capping is warranted (**Section 5.0**).

4.2 Groundwater Investigation

The groundwater investigation includes sampling of the three existing facility wells (Potable Well, Deep Well #1, and Deep Well #2) and installation, development, and sampling of up to seven NR 141-compliant monitoring wells. Groundwater samples from the facility wells and monitoring wells will be analyzed by a certified lab under NR 149 for the list of 33 PFAS analytes. Groundwater sampling will be conducted following TRC's SOP for Groundwater Sampling, which includes modifications for PFAS sampling.

Four rounds of groundwater sampling will be conducted for the monitoring wells and facility wells to show concentration trends over time. Depending on the concentrations and groundwater flow determined by the first round of gauging and sampling, additional monitoring wells may be installed on-site, off-site, and/or at different depths to further constrain the horizontal and vertical extent of PFAS in groundwater. Additionally, depending on the PFAS concentrations in the existing deep wells (Well #1 and Well #2), continued monitoring of these deep wells may be terminated after two rounds of sampling.

4.2.1 Facility Wells

Deep production wells (Well #1 and Well #2) will be sampled by collecting water from the vents present on the well pumps. Water will be collected directly from the outflow of the vent into laboratory containers. The potable well will be sampled at a tap prior to any carbon filter units, after flushing the tap for five minutes.

4.2.2 Monitoring Wells

A phased program of well installation will include installing three wells across the water table and measurement of the groundwater flow direction at these wells, followed immediately with installation of four additional wells.

Installation and sampling of the monitoring wells will be completed as follows:

- A location and elevation survey will be completed prior to mobilization for drilling to provide a reference elevation at each proposed monitoring well location. This will include the ground surface of the three facility wells and the ground surface in the adjacent quarry.
- Installation of three monitoring wells will be completed first, as indicated on **Figure 2 and Figure 3**. The top of casing elevation will be determined using the surveyed ground elevations. The measured water levels and top of casing elevations will be used to estimate groundwater flow direction prior to installing the remaining wells. The locations of the remaining wells may be adjusted based on the estimated groundwater flow direction.
- Prior to drilling at each monitoring well location, the upper six inches of soil will be removed from an area of approximately 1.5 ft by 1.5 ft around the proposed well location. Drilling will be completed by roto sonic drilling using a borehole diameter of at least 4 inches greater than the inside diameter of the well casing. A surface casing will be installed into the top of competent rock. Rock cores will be logged during drilling.

- Installation and development of monitoring wells will be in accordance with NR 141. The wells will extend to 7 feet below the water level observed during drilling (estimated to be approximately 70 feet bgs). Monitoring wells will be constructed of 2-inch diameter PVC and 10-foot screens and will be completed with stick-up covers.
- Monitoring wells will be allowed to recover completely prior to gauging and sampling, then the following activities will occur:
 - Measure the water levels in all monitoring wells prior to any purging and sampling.
 - Collect groundwater samples from each well using low-flow sampling.
- Hydraulic conductivity analysis at up to three of the monitoring wells will be performed. Tests will be conducted by inserting a slug to induce a temporary increase in hydraulic head with a recording pressure transducer to record recovery. Hydraulic conductivity estimates will be calculated using routine methods (e.g., Bouwer and Rice).
- Following receipt of the PFAS groundwater analyses results and confirming groundwater flow directions, it will be determined whether additional wells are needed to complete the NR 716 objective of defining the extent of contamination. If additional wells are needed to determine the horizontal or vertical extent of PFAS, additional wells may be installed, developed, and surveyed at estimated down gradient locations and then sampled and analyzed using the same methods described in this Work Plan.

4.3 Storm Water Investigation

One sample of storm water and one duplicate sample will be collected from the outlet of the storm sewer that drains the portion of the site including the AFFF inspection testing area (as indicated on **Figure 2**). The samples will be directly collected from the flow of the storm sewer outlet as grab samples during or following a precipitation event at some point during the Site investigation. The storm water samples will be analyzed by a certified lab under NR 149 for the list of 33 PFAS analytes

4.4 Site Investigation Procedures

This section describes the specific sampling equipment and methodology to be used for the site investigation activities described above.

4.4.1 Boring Installation and Soil Sampling

Soil borings will be advanced using a direct-push technology drilling method. Soil sampling will be conducted continuously from the ground surface (or bottom depth of cavity for borings in the septic system gravel bed area) to refusal at bedrock. The soil samples will be collected using a new, clear plastic sampling liner for each sample interval.

Each soil-filled liner will be split open and the contents will be described in a field log in accordance with the Visual-Manual Procedure (ASTM D-2488). For intervals designated for laboratory analysis based on field observations, a portion of soil will be placed in appropriately labeled laboratory sample containers and placed on ice for transport to the laboratory.

Excess soil will be placed in containers and managed as investigation-derived waste (IDW) in accordance with **Section 4.4.11**. Sample processing equipment may be single-use and disposable or may be re-used at the discretion of the field crew, if these materials can be adequately decontaminated following use. All downhole sampling equipment and any other non-dedicated, non-disposable sampling equipment will be decontaminated in accordance with **Section 4.4.10** prior to collecting the next sample.

4.4.2 Borehole Abandonment

Boreholes will be abandoned in accordance with NR 141.25. The direct-push tooling will be removed, and the open portion of the borehole will be plugged using bentonite chips, bentonite granules, or a high-solids bentonite grout to 6 inches below ground surface. The upper 6 inches of the borehole will be filled with bentonite in areas with topsoil and with gravel in areas with gravel cover.

4.4.3 Monitoring Well Development

The installed monitoring wells will be developed in accordance with NR 141.21 with the goal of producing water free of sediment. The monitoring wells will be allowed to recover completely prior to sampling.

4.4.4 Water Level Measurements

Depth to water measurements will be obtained prior to purging or sampling activities. Water level measurements will be collected using an electronic water level indicator (e.g. Slope Indicator Model 51453 or equivalent). The water level indicator consists of a spool of small-diameter insulated steel cable with a probe attached to the end. Depth is recorded to the nearest 0.01 foot. Measurements will be taken from the established reference point marked on the casing, or if such a marking is not present, then from the northern edge of the well casing.

4.4.5 Groundwater Sampling from Monitoring Wells

Monitoring wells will be purged prior to sample collection using low-flow stabilization methods. Purging and sampling will be conducted using a portable bladder pump or other pump determined to be appropriate depending on the constructed well depth and depth to water.

Pumps that will be submerged in the water column will be determined to be PFAS-free or to not yield PFAS to samples prior to use.

Tubing and other sample-contacting material will be high-density polyethylene (HDPE), silicone, or other material determined to be PFAS-free. Portable sampling pumps will be set in the well such that the pump intake is approximately 1 to 2 feet above the base of the well screen.

Field parameters including dissolved oxygen, pH, temperature, oxidation-reduction potential, turbidity, and specific conductance will be monitored during purging. Collection of groundwater samples via low-flow methods will take place once indicator parameter readings have stabilized. Stabilization will be considered to be established once the following parameters are achieved for three consecutive measurements taken at 3- to 5-minute intervals.

- pH: ± 0.1 pH units
- Specific conductance: $\pm 3\%$
- Oxidation-reduction potential: ± 10 millivolts
- Turbidity: $\pm 10\%$ nephelometric turbidity units (NTUs) or less than 5 NTUs
- Dissolved Oxygen: ± 0.3 milligrams per liter
- Water level: ± 0.3 feet

If the preceding stabilization criteria cannot be achieved due to field conditions, low flow stabilization and pumping will cease and the well will be allowed to recover sufficiently prior to sample collection. Once stabilization has been established or the well has recovered sufficiently, appropriate sample containers will be filled.

4.4.6 Analytical Quality Assurance Samples

Analytical quality assurance will be assessed through the collection of field QA/QC samples, such as blank and duplicate samples. The frequencies for collection of field duplicate, equipment blank, and field blank samples are specified below using general guidelines and in **Table 2** for the initial soil and groundwater sampling, specifically.

4.4.6.1 Field Duplicates

Blind field duplicate samples, prepared by splitting a single sample into two separate sets of laboratory containers, will be used to evaluate sampling precision for water samples. Points where duplicate samples are to be collected will be selected by the field personnel and will be submitted as single-blind duplicates to the laboratory. Field duplicates will be collected at a rate of one for every 10 (or fewer) water samples.

4.4.6.2 Equipment Blanks

Equipment blanks are analyzed to check that equipment coming into contact with the samples is not causing sample contamination. Equipment blanks for groundwater samples will be collected at a frequency of one for every 10 (or fewer) primary samples that are collected with non-dedicated, non-disposable equipment. Equipment blanks for groundwater samples will be collected in the field by running laboratory certified PFAS-free water through new tubing using the same pump set-up used for groundwater sampling. If the pump components are sample-contacting, the equipment blank will be collected after the pump has been decontaminated.

Equipment blanks for soil samples will be collected at a frequency of one for each soil sampling event, and will be collected by rinsing the inside of the plastic direct push liner or other sample-contacting components of the direct push equipment with laboratory certified PFAS-free water. An equipment blank for soil samples may be omitted if the soil sample-contacting equipment is determined to be PFAS-free.

4.4.6.3 Field Blanks

Field blanks are analyzed to check for procedural contamination at the Site that may cause sample contamination. Field blanks will be collected in the field by pouring laboratory certified PFAS-free water into the sample containers and submitting for PFAS analysis. One field blank will be collected during soil sampling and one field blank will be collected during each round of groundwater monitoring.

4.4.7 Sample Identification

Sample IDs will be recorded in the field notes and laboratory chain of custody.

Each soil boring location will be identified with “SB” followed by a location number assigned sequentially in the order of installation. Each sample of soil collected from the soil borings will be assigned a unique alpha-numeric sample descriptor identifying the sample location followed by the sample depth collected in feet (e.g., SB-01(2-4)).

Each monitoring well will be identified with “MW” followed by a location number assigned sequentially in the order of installation. Each groundwater sample will be identified with the unique well ID followed by the sampling event year and month. For example, a sample collected from MW-01 in May 2021 would be named “MW-01-202105” and the first field duplicate for that event would be named “DUP-01-202105.”

Water samples from the facility wells will be identified using the following well IDs followed by the sampling event year and month: IPW-01 (previously referred to as Well #1), IPW-02 (previously referred to as Well #2), PW-01 (previously referred to as Potable Well).

Storm water will be identified with “SW” followed by a number assigned sequentially to the sample location followed by the year and month. For example, a sample collected from SW-01 in May 2021 would be named “SW-01-202105.”

Field blanks will be identified with “FB” followed by a number assigned sequentially in the order of collection and the sampling event year and month. Equipment blanks will be identified with “EB” followed by a number assigned sequentially in the order of collection and the sampling event year and month.

4.4.8 Sample Shipment and Laboratory Analysis

Soil and groundwater samples for laboratory analysis will be placed in appropriate sample containers provided by the laboratory. Sample containers will be placed on ice immediately after collection for transport to a laboratory certified by Wisconsin DNR for PFAS under NR 149 for soil and non-potable water matrices and report the list of 33 PFAS analytes. A summary of the sampling and analysis plan for the initial soil and groundwater monitoring is included in **Table 2**. Method detection limits for the proposed analytes are included in **Appendix F**.

4.4.9 Borehole and Well Locations

The final locations of soil borings and monitoring wells will be logged using differential Global Positioning System (GPS) techniques. The Juniper Geode GPS receiver, a real-time sub-meter Bluetooth Global Navigation Satellite System GNSS receiver, will be used to collect these

locations while paired with a tablet or phone. GPS averaging will be used to ensure a more accurate point. All data will be collected in Web Mercator within the ESRI Field Maps application and will then be transformed and projected into the State Plane coordinate system (NAD83, US Feet) using Geographic Information System (GIS) software.

4.4.10 Sampling Equipment and Decontamination

An appropriately developed, executed, and documented equipment decontamination procedure is an integral and essential part of environmental site investigations. The benefits include minimizing the spread of contaminants and improved data quality and reliability.

4.4.10.1 Single-Use Sampling Equipment

To the extent practicable, single-use sampling equipment and materials will be used for the collection of samples. The single-use materials used will be new and clean and will be placed in plastic for transport to the Site. Once used, single-use equipment will be placed in plastic bags and managed as investigation-derived waste material. Single-use equipment includes, but is not limited to, HDPE and silicone tubing. Single-use equipment and materials will not require field decontamination.

4.4.10.2 Non-Dedicated Equipment

Proper decontamination of equipment is essential to minimize the possibility of cross-contamination of samples. Non-dedicated equipment such as water level indicators and non-dedicated submersible pumps will be decontaminated prior to their initial use on-site and in between sampling points and transported to the Site in a protected and decontaminated condition. Decontamination procedures will include the following steps:

- Wash the equipment in a non-phosphate detergent.
- Rinse with potable tap water.
- Rinse with water determined to be PFAS-free.

Equipment used for purging monitoring wells that is not introduced into the monitoring well and does not contact the sample, such as the groundwater flow through cell and multi-parameter sensors, will be rinsed with deionized water before use at each subsequent sampling location.

Field decontamination of equipment may take place at the sampling location. Decontamination water will be collected in 5-gallon buckets or similar containers and managed as described in **Section 4.4.11**.

4.4.11 Investigation-Derived Waste (IDW)

IDW streams generated during this investigation are expected to include rock cuttings, soil cuttings/excess sample material, decontamination fluids, monitoring well development and purge water, and general refuse (e.g., used personal protective equipment, single-use sampling equipment, and trash). Rock and soil cuttings, excess soil sample material, monitoring well development and purge water, and decontamination fluids will be containerized, labeled with the date and contents, and left on Site pending characterization results. Pending results, IDW will be



disposed off-site by an approved contractor. General refuse will be collected in trash bags and placed in a waste dumpster.

5.0 Interim Action for Soil Removal and/or Capping

The PFAS results for the soil investigation will be reviewed in accordance with TRC's data quality review procedures and analytical review checklist. The results will be compared to the NR 720 industrial direct contact residual contaminant levels (RCLs) under NR 720 for the three PFAS that have standards (PFOS, PFOA, and perfluorobutane sulfonic acid [PFBS]) to assess the direct contact exposure pathway.

Currently, protection of groundwater soil criteria do not exist for PFAS in Wisconsin statutes, regulations, or guidance. TRC will estimate protection of groundwater soil criteria for PFAS detected at elevated concentrations in Site soil using chemical and physical data available from peer reviewed literature. Degradation of precursor polyfluorinated alkyl substances will be included in this evaluation. Depending on the PFAS concentrations at the Site identified through this evaluation an interim action and/or further investigation of soil at the Site may be conducted as soon practicably possible.

The intent of the interim action and/or further investigation would be to delineate and address the soil that may exceed the NR 720 industrial direct contact RCLs and/or the estimated soil to groundwater pathway risk criteria. Soil may be addressed through the interim action of excavation and removal from the Site. The excavated area would be capped with concrete or another impervious barrier to prevent infiltration to groundwater. Alternatively, if sampling determines that soils do not pose a direct contact risk, migration to groundwater could be controlled through construction and maintenance of an impervious cover.

6.0 Schedule and Reporting

6.1 Schedule

The Site investigation will be initiated as soon as practicable. Site investigation activities will be initiated no later than one month after submittal of this SIWP and as field conditions and contractor availability allow. The results of the investigation, which may include four rounds of groundwater monitoring, a soil investigation, and iterative soil and groundwater investigations, will be compiled into a Site Investigation Report to be submitted to WDNR within 60 days of completing the site investigation.

6.2 Reporting

TRC will tabulate and evaluate the results of the site investigation and will present the results in a NR 716 Site Investigation Report to be submitted to the WDNR. Groundwater results will be compared to proposed NR 140 PALs and ESs for PFAS that are under Cycle 10 and Cycle 11 rule-making procedures. Soil analytical results will be compared to the NR 720 industrial direct contact residual contaminant levels (RCLs) under NR 720 for the three PFAS that have standards (PFOS, PFOA, and PFBS) to assess the direct contact exposure pathway. Water level data will be used to create groundwater flow and isoconcentration contour maps.

The results of this investigation will dictate whether additional investigation, interim action, and/or remedial action (e.g., soil removal, capping) is required to address the environmental impacts and ultimately achieve Site closure.

7.0 References

- Brown, B.A., et al. 2013. *Preliminary Bedrock Geology of Dane County, Wisconsin*. Wisconsin Geological and Natural History Survey Open File Report 2013-01, Plate 1.
- Clayton, L. and Attig, J.W. 1997. *Pleistocene Geology of Dane County, Wisconsin*. Wisconsin Geological and Natural History Survey Bulletin 95.
- Parsen, M.J. et al. 2016. *The 2016 Groundwater Flow Model for Dane County, Wisconsin*. Wisconsin Geological and Natural History Survey Bulletin 110.
- Trotta, L.C., and R.D. Cotter. 1973. *Depth to Bedrock in Wisconsin*. University of Wisconsin-Extension Geological and Natural History Survey and U.S. Geological Survey

Table 1 - Potable Well Water Analytical Results
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 435526.0000.0000, BRRTS #02-13-587341

Analytes ⁽¹⁾	CAS #	Units	Proposed NR 140 Standards ⁽²⁾		Sample ID, Sample Date			
					Raw Tap	Kitchen Tap	Filter Tap	Fridge Tap
			ES	PAL	3/10/21	3/10/21	3/10/21	3/10/21
PFAS								
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	ng/L	-	-	750	860	<1.9	<1.9
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	ng/L	-	-	2700	3000	<1.9	14
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	ng/L	-	-	8.7	8.5	<1.9	<1.9
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	1.1 J	1.4 J	<0.96	<0.93
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	ng/L	20	2	1.1 J	1.5 J	<0.96	<0.93
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	40	4	1.2 J	<0.93	<0.96	<0.93
Perfluoro-n-butanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	120	120	4.0	2.1 J
Perfluoro-n-decanoic acid (PFDA)	335-76-2	ng/L	300	60	5.6	5.6	<0.96	<0.93
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	ng/L	-	-	190	200	<0.96	<0.93
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	340	350	<0.96	<0.93
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	ng/L	30	3	23	24	<0.96	<0.93
Perfluoro-n-octanoic acid (PFOA)	335-67-1	ng/L	20	2	210	200	<0.96	<0.93
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	ng/L	-	-	500	490	<0.96	<0.93
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	20	2	7.8	8.9	<0.96	<0.93
C8 Combined Standard ⁽³⁾	-	ng/L	20	2	219	210	ND	ND

Notes:

PFAS = per- and polyfluoroalkyl substances

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)

J = Estimated concentration at or above the laboratory limit of detection and below the laboratory limit of quantitation.

ND = not detected

ITALIC = result meets or exceeds proposed NR 140 PAL

BOLD = result meets or exceeds proposed NR 140 ES

- = Value not established

Prepared by: J. Ramey

Revised by: L. Auner, 3/23/2021

Checked by: A. Enright 3/24/2021

Footnotes:

⁽¹⁾ Only analytes that were detected in at least one sample are shown in the table. Samples were analyzed for the Wisconsin Department of Natural Resources (DNR) PFAS list of 33 compounds.

⁽²⁾ 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.

⁽³⁾ C8 combined standard proposed for PFOS, PFOA, PFOSA, NEtFOSA, NEtFOSAA, and NEtFOSE.

Table 2 - Sampling and Analysis Plan
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 435526.0000.0000, BRRTS #02-13-587341

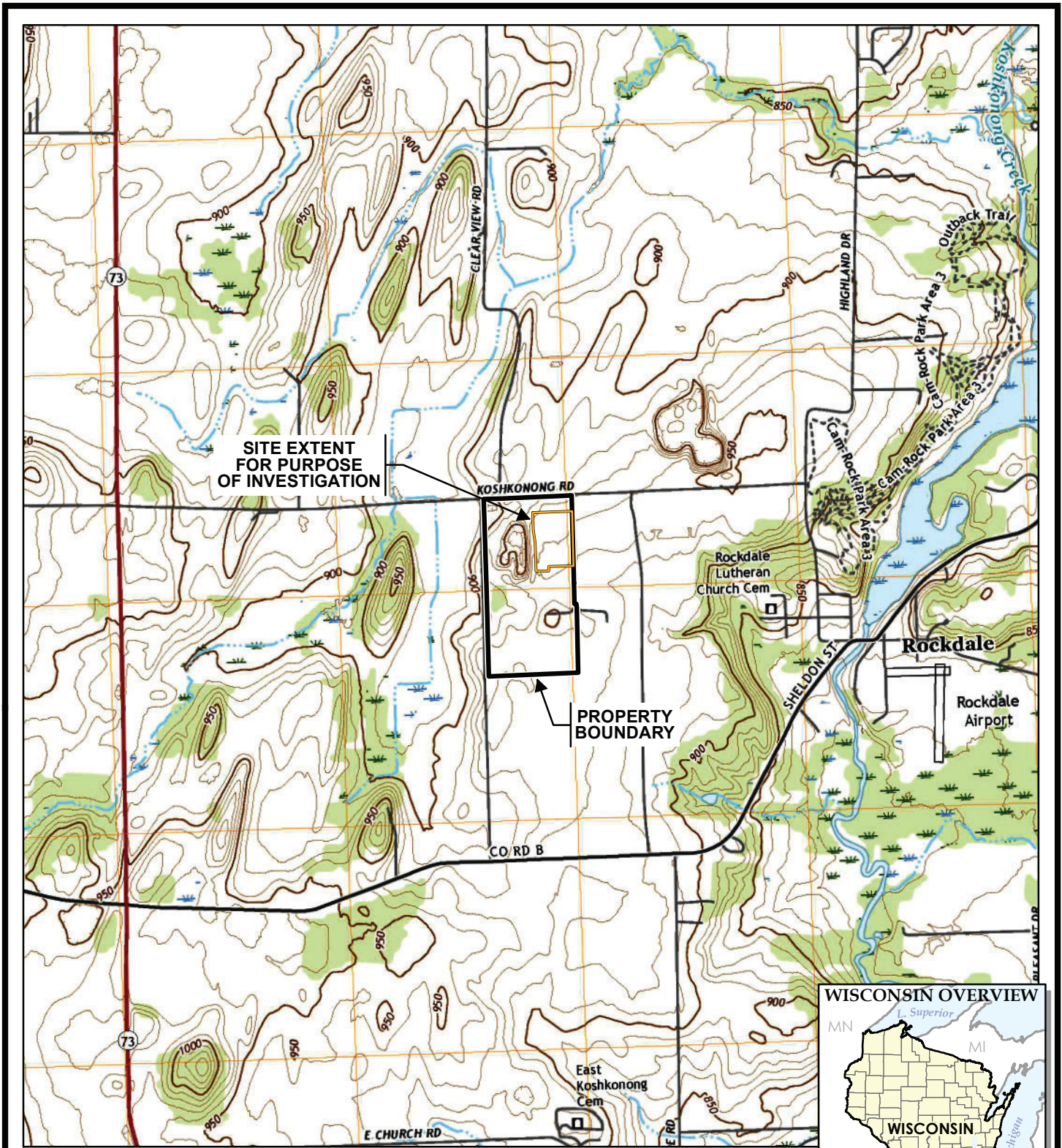
Sample Types	Initial Sampling
Water Samples	
Monitoring Wells	7
Facility Wells	3
Field Duplicates	2
Field Blank (groundwater)	1
Field Blank (soil)	1
Equipment Blank (groundwater)	1
Equipment Blank (soil)	1
Storm Sewer Outlet	1
Total Water Samples	17
Soil Samples	
Soil Borings	22

Notes:

1. Analyze for Wisconsin 33 PFAS list by the certified laboratory's SOP for PFAS certified under NR 149.
2. This Sampling and Analysis Plan applies to the initial soil and groundwater monitoring.

Revised by: L. Auner, 4/2/2021

Checked by: J. Ramey, 4/2/2021



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

FIGURE 1

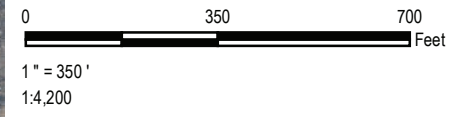


LEGEND

- PROPOSED MONITORING WELL
- PROPOSED SOIL BORING
- MONITORING WELL TO BE INSTALLED FIRST AND USED TO DETERMINE PRELIMINARY GROUNDWATER FLOW DIRECTION
- POTABLE WELL
- DEEP PRODUCTION WELL
- 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. APPROXIMATE EXTENT OF SEPTIC MOUND BASED ON DESIGN INFORMATION AND AERIAL IMAGERY.



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:	R. SUEMNICHT	PROJ. NO.:	435526
CHECKED BY:	L. AUNER	FIGURE 2	
APPROVED BY:	K. QUINN		
DATE:	APRIL 2021		



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



LEGEND

- PROPOSED MONITORING WELL
- PROPOSED SOIL BORING
- MONITORING WELL TO BE INSTALLED FIRST AND USED TO DETERMINE PRELIMINARY GROUNDWATER FLOW DIRECTION
- POTABLE WELL
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- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY 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. APPROXIMATE EXTENT OF SEPTIC MOUND BASED ON DESIGN INFORMATION AND AERIAL IMAGERY.

Carpenter Swain Rd

0 50 100
Feet

1" = 50'
1:600

PROJECT:		BRRTS #02-13-587341 ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD, TOWN OF CHRISTIANA DANE COUNTY, WISCONSIN 53523	
SITE LAYOUT DETAIL			
DRAWN BY:	R. SUEMNICHT	PROJ. NO.:	435526
CHECKED BY:	L. AUNER	FIGURE 3	
APPROVED BY:	K. QUINN		
DATE:	APRIL 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:		435526-003.mxd	

Appendix A: 2019 Phase I ESA

March 2019

CALPINE OPERATING SERVICES COMPANY, INC

Phase I Environmental Site Assessment for Identifying Recognized Environmental Conditions

*77.81+/- Acres located at 2346 Clear View Road
Christiana, Dane County, Wisconsin*

PROJECT NUMBER:
156972

PROJECT CONTACT:
Steve McVey
EMAIL:
steve.mcvey@powereng.com
PHONE:
(513) 326-1525



*Phase I Environmental Site Assessment for
Identifying Recognized Environmental Conditions
2346 Clear View Road
Christiana, Dane County, Wisconsin*

PREPARED FOR: CALPINE OPERATING SERVICES COMPANY, INC

*PREPARED BY: STEVE MCVEY, PG
(512) 879-6625
STEVE.MCVEY@POWERENG.COM*

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APPENDIX 15.8 SITE RECONNAISSANCE CHECK SHEET

1.0 EXECUTIVE SUMMARY

POWER Engineers, Inc. (POWER) was retained by Calpine Operating Services Company, Inc. (Calpine) to perform a Phase I Environmental Site Assessment (ESA) of an approximately 77.81+/- acre parcel (the Property), owned by Rockgen Energy LLC (Rockgen). The Property is located at 2346 Clear View Road in Christiana, Dane County, Wisconsin. Rockgen has owned the Property since March 2008. The previous owner of the Property is listed as Rockgen OL-4 LLC. This ESA was conducted in conformance with ASTM E1527-13¹, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (Phase 1 ESA) to identify recognized environmental conditions (RECs) associated with the current or past uses of the Property or in the vicinity of the Property.

Mr. Steve McVey, P.G., a Project Manager at POWER, performed the records review and Mr. Scott Collins conducted the Property reconnaissance on March 12, 2019. The resumes for Mr. Collins, and Mr. McVey, qualified environmental professionals², are provided in Section 14.0. The findings of the assessment of the Property are summarized as follows:

- No environmental liens or activity use limitations have been filed against the Property.
- No RECs were identified on the Property.

¹ The U.S. Environmental Protection Agency (EPA) recognizes ASTM E 1527-13 as being consistent with 40 CFR 312, required to satisfy CERCLA requirements for conducting All Appropriate Inquiry (AAI).

² ASTM E 1527-13, Appendix X2 provides EPA's definition of an Environmental Professional found at 40 CFR 312.10.

2.0 INTRODUCTION

2.1 Property Location and Legal Description

The Property is located at 2346 Clear View Road, Christiana, Dane County, Wisconsin. The Property consists of one rectangular tract of land, comprised of approximately 77.81+/- acres. The geographic coordinates of the approximate center of the Property is latitude 42.974046° N and longitude -89.050054° W. The location of the Property is illustrated on the figure, Property Location, provided in Appendix 15.1.

The 77.81+/- acres of land considered in this ESA will be referred to as the "Property". Several sources identify the Property and referenced addresses to be located in Cambridge, Wisconsin. However, according to the legal description the Property is defined as being the West half of the Northwest Quarter (W ½ NW ¼) of Section Twenty-Three (23), Township Six (6) North, Range Twelve (12) East, in the Town of Christiana , Dane County, Wisconsin. Legal descriptions of the Property are provided in the Deed Exhibit section of the Environmental Lien and AUL Search Report, included in Appendix 15.4.

2.2 Purpose

The purpose of this assessment was:

- To perform the services necessary to provide appropriate inquiry into the previous ownership and uses of the Property in order to identify RECs with regard to the presence of hazardous substances and petroleum products. These services are consistent with good commercial and customary practices as set forth in 42 USC § 9601(35)(B) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 ("Superfund") as amended;
- To provide an overall assessment of environmental factors affecting the site. The assessment satisfies the general requirements of ASTM Standard Practice E 1527-13 for a Phase I ESA. The assessment is presented solely for the purposes and parties as stated herein and may not contain sufficient information for purposes or parties other than those mentioned herein; and

2.3 Scope of Services

The scope of this assessment consisted of:

- Researching federal, state and local agency records for hazardous and solid waste management activities, identified hazardous waste sites, petroleum storage tanks, hazardous chemical inventory reports, spill incident reports, toxic release inventory reports, and previous land use;
- Review of current and historical information sources, including aerial photographs, USGS topography maps, area soil survey, geologic atlas, and fire insurance maps (as available);
- Visual and physical inspection of the Property with photographic documentation;
- Review for additional information (environmental liens, activity use limitations, engineering controls, previous ESA reports); and
- Inquiry of knowledgeable personnel.

2.4 Significant Assumptions

Significant assumptions with regard to this ESA are as follows:

- This ESA generally relies upon the accuracy of the information provided. Independent verification of the information provided is not considered to be within the scope of the ESA unless there is actual knowledge that the information is incorrect, or it is obvious that certain information is incorrect based upon other information obtained.
- Approximate minimum database search areas around the site are selected based upon ASTM E 1527-13 guidelines.
- The accuracy and completeness of record information provided by reasonably ascertainable/standard sources may vary. This ESA makes reasonable efforts to compensate for mistakes and insufficiencies in the information reviewed. However, it does not attempt to identify all mistakes or insufficiencies in the information provided.
- Record information reviewed for this ESA is generally limited to that information which is publicly available or that is made available by the client, information that is obtainable within reasonable time and cost restraints, and information that is practically reviewable without the need for extraordinary analysis of irrelevant data.
- The site reconnaissance was not subject to physical limitations imposed by physical obstructions such as adjacent buildings or structures, bodies of water, pavement, and weather.

2.5 Limitations and Exceptions

The following environmental issues or conditions at the Property are considered to be outside the scope of the ASTM Standard Practice E 1527-13 for Phase I ESAs, except as identified incidental to the obtainment of other site information:

- Asbestos-containing building materials,
- Biological agents,
- Cultural and historic resources,
- Ecological resources,
- Endangered species
- Health and safety,
- Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment,
- Industrial hygiene,
- Lead-based paint,
- Lead in drinking water,
- Mold,
- Radon,
- Regulatory compliance, and

- Wetlands.

2.6 Special Terms and Conditions

There were no special terms associated with the ESA. POWER did not include the review of compliance requirement such as Clean Air Act, Clean Water Act, or Resource Conservation Recovery Act within the scope of the ESA.

2.7 POWER Reliance

In preparing this report, POWER has reviewed historical records, conducted interviews with appropriate personnel and conducted an on-site visual inspection of the Property. POWER has examined and relied upon documents referenced in this report and has relied upon oral statements made by specific, knowledgeable individuals. POWER has not conducted an independent examination of the facts contained in referenced materials and statements. We have assumed the genuineness of the documents and that the information provided in documents or statements is true and accurate.

The recommendations and findings contained in this report represent POWER's technical assessment of the issues and are based upon our experience and familiarity with the applicable regulations. In providing this report, POWER is not acting as a legal advisor and in no way intends to convey legal advice. Similarly, POWER makes no findings with respect to the adequacy or appropriateness of any specific determinations made or to be made by Calpine or Rockgen, whether or not such determinations are based upon POWER's recommendations and findings. POWER has prepared this report in a professional manner using the degree of skill and care exercised in similar projects under similar conditions by reputable and competent environmental consultants. POWER shall not be responsible for conditions or consequences arising from relevant facts that were withheld or otherwise not fully disclosed or made evident by Calpine or Rockgen at the time the assessment was conducted.

3.0 USER-PROVIDED INFORMATION

This section of the ESA report presents user information provided to the POWER environmental professional that may help identify possible RECs in connection with the Property. The “user” is defined as the party seeking to use Practice E1527-13 to complete an ESA of the Property. Calpine is the user for this ESA. Acquisition of this information is generally not performed by the environmental professional. Information with regards to environmental liens or activity and use limitations may be obtained by the environmental professional if requested by the user as an addition to the scope of work normally performed by the environmental professional.

Copies of the user questionnaire and user responses are included in Appendix 15.6.

3.1 Title Records

Calpine did not provide a 50-year Deed Chain for the Property. The previous owner of the Property is listed as Rockgen OL-4 LLC from the deed dated in January 2008. A copy of the Environmental Lien Search Report is included in Appendix 15.4. POWER contracted Environmental Data Resources, Inc. (EDR), Shelton, Connecticut to perform an Environmental Lien Search Report which states that Rockgen Energy, LLC took possession of the Property on January 11, 2008.

3.2 Environmental Liens

Calpine communicated to POWER that it is not aware of any environmental liens or activity and use limitations having been filed against the Property. POWER contracted EDR to perform an environmental liens and activity and use limitations search of the Property as an additional scope of work. No environmental liens or activity and use limitations were identified by this search as having been filed against the Property. A copy of the Environmental Lien Search Report and AUL Search is included in Appendix 15.4.

3.3 Specialized Knowledge

Calpine has specialized knowledge of the portion of the Property developed as a peaker power plant. Calpine has operated this power plant since its construction and has specialized knowledge in the operation and maintenance. The Calpine Environmental Health and safety group has been providing compliance oversight since Calpine acquired the property.

3.4 Valuation Reduction

Calpine indicated that the purchase price reflects the fair market value of the Property if it were not contaminated.

3.5 Owner, Property Manager, and Occupant Information

Calpine communicated to POWER that they are the current owner of the Property.

3.6 Reason for Performing Phase I

Calpine communicated to POWER that the purpose of the Phase I ESA is to identify any potential environmental concerns prior to a potential property transaction.

3.7 Other

Calpine Environmental, Health, and Safety Group has been providing environmental compliance oversight since Calpine acquired the property and has stated that they are not aware of any specific chemicals having been present on the Property. Calpine reported a spill of ten gallons of fuel oil to Wisconsin Department of Natural Resources on December 12, 2017. The spill was cleaned up by a contractor. Calpine is not aware of any other chemical releases or environmental cleanups having taken place on the Property.

3.8 Data Gap

Data gaps, a lack or inability to obtain information required by E-1527-13, despite good faith efforts, were not encountered by POWER staff with regard to User-provided information.

4.0 RECORDS REVIEW

4.1 Standard Environmental Record Sources

EDR was subcontracted by POWER to conduct a standard environmental record sources search as required by Section 8.2.1 of ASTM E 1527-13 and 40 CFR § 312.26. The approximate minimum search distances for the records search meet the distance requirements of E 1527-13 and §312.26. A list of the databases researched, database descriptions, search radii, location maps, and detailed copies of the available reports are provided in Appendix 15.5.

Based upon the findings of the EDR standard records search, three (3) sites were identified within the designated search radii from the Property. The sites identified, and the associated environmental concerns are listed below:

Map ID No.	Site Name, Location	Environmental Concern
A1, A2, A3 (Property)	ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD CAMBRIDGE, WI 53523	SHWIMS, AST, RCROQ-CESQG
4	T & T STONE CO INC 450 KOSHKONONG RD CAMBRIDGE, WI 53523	SHWIMS
5	REINER FARM PROPERTY 2478 CLEARVIEW RD CAMBRIDGE, WI 53523	LUST

It is assumed that the business listed as T&T Stone Co. Inc. (Map ID No. 4) was formerly located on the Property. A release from a UST operated at Reiner Farm Property (Map ID No. 5) was reported to Wisconsin DNR on February 15, 1999. Little information was available from the records, but the impacts appeared to be limited to soil only and the case was closed on July 19, 1999. Due to the site being reported in a cross- or down-gradient location, and the reported impact being limited to soil only, it is very unlikely that this release poses an environmental concern to the Property.

4.2 Additional Environmental Record Sources

Additional environmental record sources, as identified in Section 8.2.2 of ASTM E 1527-13 and 40 CFR § 312.26(c)(4) were provided to POWER by EDR. The approximate minimum search distances for these additional record sources should be the same as those specified in Section 8.2.1 and § 312.26. A list of the databases researched, database descriptions, search radii, location maps, and detailed copies of the available reports are provided in Appendix 15.5.

Based upon the findings of the EDR standard records search, one (1) sites were identified within the designated search radii from the Property. The sites identified, and the associated environmental concerns are listed below:

Map ID No.	Site Name, Location	Environmental Concern
A1, A2, A3 (Property)	ROCKGEN ENERGY CENTER 2346 CLEAR VIEW RD CAMBRIDGE, WI 53523	SPILLS, US AIRS, FINDS, ECHO, TIER 2, AIRS

4.3 Physical Setting Sources

Copies of EDR Topographic Maps, based upon current and available historical United States Geological Survey (USGS) 7.5-Minute Quadrangle Topographic maps showing the area on which the Property and surrounding areas are located were reviewed for this ESA. The following topographic sheets and years were reviewed:

- Rockdale 7.5-minute Quadrangle, 24000, 2013
- Stoughton 7.5-minute Quadrangle, 62500, (Aerial Photo Revised 1960) 1976
- Rockdale 7.5-minute Quadrangle, 24000, (Aerial Photo Revised 1971) 1971
- Rockdale 7.5-minute Quadrangle, 24000, (Aerial Photo Revised 1960) 1961
- Stoughton 15-minute Quadrangle, 62500, 1890

Copies of these quadrangle maps are provided in Appendix 15.4.

These maps show that topography of the Property and most of the surrounding area generally slopes towards the east to Koshkonong Creek.

These maps show that surrounding areas and the Property from 1890 to around 1961 were sparsely developed with few local roadways. Rockdale is present as the only mapped city. In the 1961 topographic map, the quarry and a structure are present on the Property. Local development increases slightly from 1961 to 2013, but the area remains mostly undeveloped.

Based on the historical topographic map series reviewed by POWER, the subject Property and properties in the nearby vicinity have remained undeveloped in this area. Copies of these maps are provided in Appendix 15.4.

4.4 Historical Use Information on the Property

Sources of historical information are utilized to develop a history of the previous uses of the Property and surrounding area in order to identify the likelihood of past uses having led to recognized environmental conditions in connection with the Property.

4.4.1 Aerial Photographs of the Property

Aerial photographs of the Property were obtained from EDR for the years 1937, 1955, 1962, 1968, 1976, 1980, 1986, 1992, 1996, 2006, 2010, 2013, and 2017. Copies of these historical photographs are provided in Appendix 15.4. The historical land use and potential environmental conditions interpreted from the above referenced aerial photographs are as follows:

Year	Interpreted Land Use	Potential Environmental Conditions
1937	Land use at the Property appears to be agricultural. A residence, a barn, and another structure are present on site near the southeast quadrant of the Property. Two driveways provide access to the bordering local roadways.	No potential environmental conditions noted.

Year	Interpreted Land Use	Potential Environmental Conditions
1955	A quarry is present in the northwest quadrant of the Property. One large structure and one smaller structure are present south of the quarry. Land use has remained unchanged everywhere else on the Property.	No potential environmental conditions noted.
1962	No land use changes noted that differ from 1955 aerial photograph.	No potential environmental conditions noted.
1968	No land use changes noted that differ from 1962 aerial photograph, except for the eastward expansion of the quarry.	No potential environmental conditions noted.
1976	No land use changes noted that differ from 1962 aerial photograph, except for the eastward expansion of the quarry and the removal of one of the structures associated with the residence near the southeast corner.	No potential environmental conditions noted.
1980	No land use changes noted that differ from 1976 aerial photograph.	No potential environmental conditions noted.
1986	No land use changes noted that differ from 1980 aerial photograph.	No potential environmental conditions noted.
1992	No land use changes noted that differ from 1986 aerial photograph.	No potential environmental conditions noted.
1996	No land use changes noted that differ from 1986 aerial photograph except for the southward expansion of the quarry and the removal of a section of the driveway associated with the residence.	No potential environmental conditions noted.
2006	The Rockgen Energy Plant is present in the northeast quadrant of the Property. Three combustion turbines and generators, three AST's and support structures are present in addition to a new driveway through the property. A large portion of the quarry appears to have been backfilled or seeded. A small rectangular pond is visible in the far northwest corner of the Property	No potential environmental conditions noted.
2010	No land use changes noted that differ from 2006 aerial photograph.	No potential environmental conditions noted.
2013	No land use changes noted that differ from 2010 aerial photograph.	No potential environmental conditions noted.
2017	No land use changes noted that differ from 2013 aerial photograph.	No potential environmental conditions noted.

4.4.2 Fire Insurance Maps of the Property

EDR searched the complete holdings of the Sanborn Library, LLC collection. Sanborn Fire Insurance Maps covering the target property were not found. A copy of the EDR report certifying that fire insurance maps covering the Property were not found is provided in Appendix 15.4.

4.4.3 Recorded Land Title Records of the Property

Calpine did not provide a 50-year Deed Chain for the Property, however, according to the Warranty Deed (RG-4) provided in the Environment Lien search, the “Grantor warrants that the title to the Property is good, indefensible fee simple and free and clear of encumbrances subject to (i) all recorded covenants, restriction, easements, reservations and agreements applicable to the real property described in said Attachment 2 and (ii) all other covenants, restriction, easements created or permitted to exist by or otherwise arising from , the acts or omission for Grantor”.

POWER contracted EDR to perform an “Environmental Lien and AUL Search” for the Property. No environmental liens or other activity and use limitations (AULs) were found for the Property.

4.4.4 Local Street Directories of the Property

Local street directories are published annually by private or government sources and show the ownership and/or use of properties by reference to street addresses. Business directories including city, cross reference and telephone directories, if available, were reviewed at approximately five (5) year intervals by EDR. The available years reviewed span from 1992 to 2014.

Year	Business/Resident's Name	Apparent Land Use
2014	Calpine Skygen Energy	Power generation
2014	Rockgen Energy LLC	Power generation
2010	Calpine Skygen Energy	Power generation
2010	Rockgen Energy LLC	Power generation
2005	Rockgen Energy LLC	Power generation
1995	T&T Stone Co Inc	Mining Quarry

Copies of the applicable portions of the reviewed street directories are provided in Appendix 15.4.

4.4.5 Data Gap

Data failure, a type of data gap, occurs when the objectives defined in 8.3.1 through 8.3.2.2 of E 1527-13 could not be met after all of the standard historical sources that are reasonably ascertainable have been reviewed. Data failure was not encountered during the POWER review of the standard historical sources.

4.5 Historical Use Information on the Adjoining Properties

4.5.1 Aerial Photographs of the Adjoining Properties

Aerial photographs of the Property were obtained from EDR for the years 1937, 1955, 1962, 1968, 1976, 1980, 1986, 1992, 1996, 2006, 2010, 2013, and 2017. Copies of these historical aerial photographs are provided in Appendix 15.4. The historical land use and potential environmental conditions interpreted from the above referenced aerial photographs are as follows:

Year	Direction	Interpreted Land Use	Potential Environmental Conditions
1937	North	Land use at the northern adjoining property is largely undeveloped and appears to be in agricultural use. Koshkonong Road is present along the northern property boundary of the Property.	None
	South	Land use at the southern adjoining property is largely undeveloped and appears to be in agricultural use.	None
	East	Land use at the eastern adjoining property appears to be agricultural. Multiple residences with barns are present near the southwest corner of this property with a paved driveway crossing through the property.	None
	West	Land use at the western adjoining property is a combination of agricultural and undeveloped. Multiple residences and a barn are present near the southeast corner of this property with a paved driveway leading to Clear View Road. Clear View Road is present along the western property boundary of The Property.	None
1955	North	No land use changes noted that differ from the 1937 aerial photograph.	None

Year	Direction	Interpreted Land Use	Potential Environmental Conditions
	South	No land use changes noted that differ from the 1937 aerial photograph.	None
	East	No land use changes noted that differ from the 1937 aerial photograph.	None
	West	No land use changes noted that differ from the 1937 aerial photograph.	None
1962	North	No land use changes noted that differ from the 1955 aerial photograph.	None
	South	No land use changes noted that differ from the 1955 aerial photograph.	None
	East	No land use changes noted that differ from the 1955 aerial photograph.	None
	West	No land use changes noted that differ from the 1955 aerial photograph.	None
1968	North	No land use changes noted that differ from the 1962 aerial photograph.	None
	South	No land use changes noted that differ from the 1962 aerial photograph.	None
	East	No land use changes noted that differ from the 1962 aerial photograph. However, a substation with frontage along Koshkonong Road is now visible.	None
	West	No land use changes noted that differ from the 1962 aerial photograph.	None
1976	North	No land use changes noted that differ from the 1968 aerial photograph.	None
	South	No land use changes noted that differ from the 1968 aerial photograph.	None
	East	No land use changes noted that differ from the 1968 aerial photograph.	None
	West	No land use changes noted that differ from the 1968 aerial photograph except for the construction of a pond west of the residence.	None
1980	North	No land use changes noted that differ from the 1976 aerial photograph.	None
	South	No land use changes noted that differ from the 1976 aerial photograph.	None
	East	No land use changes noted that differ from the 1976 aerial photograph.	None
	West	No land use changes noted that differ from the 1976 aerial photograph.	None
1986	North	No land use changes noted that differ from the 1980 aerial photograph.	None
	South	No land use changes noted that differ from the 1980 aerial photograph.	None
	East	No land use changes noted that differ from the 1980 aerial photograph.	None
	West	No land use changes noted that differ from the 1980 aerial photograph except for the removal of the pond.	None
1992	North	No land use changes noted that differ from the 1986 aerial photograph.	None
	South	No land use changes noted that differ from the 1986 aerial photograph.	None
	East	No land use changes noted that differ from the 1986 aerial photograph.	None
	West	No land use changes noted that differ from the 1986 aerial photograph.	None
1996	North	No land use changes noted that differ from the 1992 aerial photograph.	None
	South	No land use changes noted that differ from the 1992 aerial photograph.	None
	East	No land use changes noted that differ from the 1992 aerial photograph.	None
	West	No land use changes noted that differ from the 1992 aerial photograph.	None
2006	North	No land use changes noted that differ from the 1996 aerial photograph.	None
	South	No land use changes noted that differ from the 1996 aerial photograph.	None
	East	No land use changes noted that differ from the 1996 aerial photograph except for the construction of two overhead utility lines along Koshkonong Road.	None
	West	No land use changes noted that differ from the 1996 aerial photograph.	None
2010	North	No land use changes noted that differ from the 2006 aerial photograph.	None

Year	Direction	Interpreted Land Use	Potential Environmental Conditions
	South	No land use changes noted that differ from the 2006 aerial photograph.	None
	East	No land use changes noted that differ from the 2006 aerial photograph.	None
	West	No land use changes noted that differ from the 2006 aerial photograph.	None
2013	North	No land use changes noted that differ from the 2010 aerial photograph.	None
	South	No land use changes noted that differ from the 2010 aerial photograph.	None
	East	No land use changes noted that differ from the 2010 aerial photograph.	None
	West	No land use changes noted that differ from the 2010 aerial photograph.	None
2017	North	No land use changes noted that differ from the 2008 aerial photograph.	None
	South	No land use changes noted that differ from the 2008 aerial photograph.	None
	East	No land use changes noted that differ from the 2008 aerial photograph.	None
	West	A new residence and driveway have been constructed along Clear View, south of the of the original residences, adjacent to the southwest corner of the Property.	None

4.5.2 Fire Insurance Maps of the Adjoining Properties

EDR searched the complete holdings of the Sanborn Library, LLC collection. Sanborn Fire Insurance Maps covering the target property and the adjoining properties were not found. A copy of the EDR report of the fire insurance maps covering the Property are provided in Appendix 15.4

4.5.3 Recorded Land Title Records of the Adjoining Properties

Recorded land title records for the adjoining properties were not provided to POWER.

4.5.4 Local Street Directories of the Adjoining Properties

Local street directories are published annually by private or government sources and show the ownership and/or use of properties by reference to street addresses. Business directories including city, cross-reference and telephone directories, if available, were reviewed at approximately five (5) year intervals as discussed in Section 5.4.4 of this ESA report. A copy of EDR's street directory report is provided in Appendix 15.4.

POWER georeferenced the addresses provided by EDR to identify which are associated with parcels of land that adjoin the Property, along with the names of those businesses or residents linked to a specific address.

The street directories review identified the following adjoining properties:

Year	Direction	Address/Business/Resident's Name	Apparent Land Use
2014	East	2302 Carpenter Swain Rd – Cusick, William J	Residential/Agriculture
2014	East	2304 Carpenter Swain Rd – Johnson, Lars R	Residential/Agriculture
2014	East	2304 Carpenter Swain Rd – Johnson Small Engine Repair	Commercial
2014	East	2305 Carpenter Swain Rd – Occupant Unknown	Residential/Agriculture
2014	South	2185 Clear View Road – Gausmann, Tony P	Residential/Agriculture
2014	South	2195 Clear View Road – Grayco Transport LLC	Commercial
2014	South	2195 Clear View Rd – Michael J Mislivecek	Residential/Agriculture
2014	South	2293 Clear View Rd – Hommen, Brain T	Residential/Agriculture
2014	South	2297 Clear View Rd – Michael Schael	Residential/Agriculture
2010	East	2302 Carpenter Swain Rd – Cusick, Laura A	Residential/Agriculture
2010	East	2304 Carpenter Swain Rd – Johnson, Charles O	Residential/Agriculture
2010	South	2185 Clear View Road – Gausmann, Tony P	Residential/Agriculture
2010	South	2195 Clear View Rd – Malnar, John D	Residential/Agriculture
2010	South	2293 Clear View Rd – Hommen, Brain T	Residential/Agriculture
2010	South	2297 Clear View Rd – Michael Schael	Residential/Agriculture
2005	South	2302 Carpenter Swain Rd – Cusick, William J	Residential/Agriculture
2005	South	2304 Carpenter Swain Rd – Johnson, Lars R	Residential/Agriculture
2005	South	2304 Carpenter Swain Rd – Johnson Small Engine Repair	Commercial
2005	South	2185 Clear View Road – Hommen Shane D	Residential/Agriculture
2005	South	2195 Clear View Rd – Malnar, John D	Residential/Agriculture
2005	South	2293 Clear View Rd – Hommen, Brain T	Residential/Agriculture
2005	South	2297 Clear View Rd – Michael Schael	Residential/Agriculture
2000	East	2302 Carpenter Swain Rd – Cusick, William	Residential/Agriculture
2000	East	2304 Carpenter Swain Rd – Johnson, Charles O	Residential/Agriculture
2000	East	2305 Carpenter Swain Rd – Carpenter, Thomas	Residential/Agriculture
2000	South	2185 Clear View Road – Olson, Angela	Residential/Agriculture
2000	South	2195 Clear View Rd – Malnar, John D	Residential/Agriculture
2000	South	2293 Clear View Rd – Hommen, Brain	Residential/Agriculture
1995	East	2302 Carpenter Swain Rd – Cusick, William	Residential/Agriculture
1995	East	2304 Carpenter Swain Rd – Fieser, John	Residential/Agriculture
1995	East	2305 Carpenter Swain Rd – Carpenter, Thomas	Residential/Agriculture
1995	South	2185 Clear View Road – Parmer, D W	Residential/Agriculture
1995	South	2195 Clear View Rd – Malnar, John D	Residential/Agriculture
1995	South	2293 Clear View Rd – Hommen, Brain	Residential/Agriculture
1995	South	2297 Clear View Rd – Tucker, Terry	Residential/Agriculture
1992	East	2304 Carpenter Swain Rd – Fieser, K	Residential/Agriculture
1992	East	2305 Carpenter Swain Rd – Carpenter, Thomas	Residential/Agriculture
1992	South	2195 Clear View Rd – Malnar, John D	Residential/Agriculture
1992	South	2293 Clear View Rd – Hommen, Brain	Residential/Agriculture

Copies of the applicable portions of the reviewed street directories are provided in Appendix 15.4.

4.5.5 Data Gap

The historical uses of all the adjoining properties going back to 1940 could not be achieved due to data failure. Data failure occurs when all of the standard historical sources that are reasonably ascertainable, as defined in Practice E 1527-13 have been reviewed, but the objectives in 8.3.1 through 8.3.2.2 of E 1527-13 could not be met. However, the data gap in the historical information is not significant since other data sources indicate the apparent land use for the adjoining properties to the north, east, south and west boundaries of the Property.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Prior to the site inspection, historical aerial photographs, available site history and available facility operational information were reviewed. The Property was inspected visually by POWER. The site reconnaissance for this assessment was performed by Mr. Scott Collins on March 12, 2019. There was one limiting condition encountered while performing the site reconnaissance. Snow covered much of the undeveloped portions of the Property preventing the visual inspection of the ground surface at the quarry and on the previously cultivated field.

5.2 General Site Setting, Interior and Exterior Observations

The purpose of the site reconnaissance was to identify evidence of the presence or likely presence of recognized environmental conditions and de minimis conditions at the Property. A recognized environmental condition is the presence, or likely presence, of any hazardous substance or petroleum product on the Property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum product into structures on the Property or into the soil, ground water, or surface water of the Property. A de minimis condition generally would not present a threat to human health or the environment and generally would not be subject to an enforcement action if brought to the attention of the appropriate governmental agencies. Conditions that are de minimis are not recognized environmental conditions in accordance with ASTM Standard Practice E 1527-13.

POWER met with Calpine representatives Ms. Aida Guloy, Mr. Matthew Pledger, and Mr. Danny Berg during the site visit. As part of the site visit, Calpine representatives and POWER inspected the power plant facility, the former rock quarry, and former homestead.

Structures, Roads, and Other Improvements

The northeast quadrant of the Property is occupied by a power generation facility consisting of a main facility control/maintenance building; a covered fuel off-loading area; three above-ground storage tanks (ASTs); and power plant components consisting of three combustion turbines, three CT generators, and three combustion turbine step-up transformers. An inactive rock quarry occupies the northwest quadrant of the Property and the remaining improvements include two abandoned structures of a former homestead located in the southeast quadrant.

Power Plant

The control/maintenance building is approximately 6,500 square feet. The structure appears to be constructed of steel beams and purlins on a concrete slab with an aluminum exterior and a pitched, aluminum roof. Batt/blanket type insulation was observed on the walls and ceiling within the maintenance area of the structure. According to Mr. Pledger, the building was constructed in 2000. The building is heated with propane gas and cooled using an electric air conditioning system.

The front portion of the building features a main reception area, two individual offices, a conference room, kitchen, restrooms, the main control room. This area of the building is finished with floor tiles, drop ceilings, drywall, and fluorescent lighting fixtures. The office area provides access to the warehouse/maintenance area. This area of the building contains standard entry doors for personnel entry and exit.

The portion of the building allocated for warehousing and maintenance is unfinished with a concrete slab floor, exposed steel beam and steel girt and purlin framing, and fluorescent/metal halide lighting. This area is utilized for the storage of various lubricants, chemicals, and excess inventory of service/maintenance items. A stairway within the maintenance area leads to a second floor situated above the office area of the building. This area featured plywood floors, exposed ceiling and walls and was used for additional storage of service and maintenance items. This area of the building contains standard entry doors and steel, roll-up style bay doors for personal and vehicular entry and exit.

The maintenance area also provides access to the compressor room and breaker room. These rooms contain components related to the main control of the facility including an industrial air compressor, industrial breaker systems, and five (5) electric transformers. Cables and circuitry related to the operation of the facility enter the control room via concrete trenches positioned beneath the floor of the maintenance area. These trenches are covered with diamond plated, metal sheeting.

A small, skid mounted metal building houses the facility's fire pump system. The interior of the building contains a fuel oil fired pump engine and a 500-gallon tank. The building is approximately 432 square feet and features steel floors, walls, and roof.

The power generation portion of the Site is comprised of three, natural gas fired 503-megawatt GE Frame 7FA combustion turbines. The power plant utilizes fuel oil as a secondary fuel source during periods of extreme cold. The power generation system functions by combining air and fuel into a combustion chamber. As hot combustion gas expands through the turbine, it spins rotating blades. The rotating blades serve a dual purpose, they drive the compressor and turn a generator to produce electricity.

Former Rock Quarry

The inactive limestone rock quarry is located in the northwest quadrant of the Property. According to Mr. Danny Berg, the limestone quarry has been out of operation for several years. According to a previous Phase I Assessment Report generated for the Property (Clayton, 2001), buried building materials were observed in the quarry and were associated with the Koshkonog Creek Dam. According to a source cited in the report, the materials were placed in the quarry under an agreement with Wisconsin Department of Natural Resources (WDNR). However, no records of the agreement were found in the files Clayton reviewed.

POWER contacted Ms. Valerie Joosten, WDNR Solid Waste Branch, regarding the possible disposal of materials at the quarry. The EDR Radius Report the quarry is included in the Solid and Hazardous Waste Information Management System (SHWIM), FID #113268870 that is associated with a solid waste transporter's license issued to T & T Stone Company Inc., 450 Koshkonog Road, Cambridge Wisconsin. Ms. Joosten was unable to locate or substantiate additional information regarding the disposal of demolition debris in the quarry. Ms. Joosten further indicated that demolition debris including brick, building stone, concrete/reinforced concrete, and broken pavement would be exempt from Wisconsin's solid waste laws.

Mr. Berg also indicated that limestone excavated from the quarry was utilized as base material during construction of the power plant.

POWER visually inspected the quarry during the site visit. However, due to the presence of snow and ice, POWER was unable to confirm the presence or absence of any demolition debris. POWER did note the presence of a small volume of household and construction debris including plastic lawn chairs, glass window blocks, wooden construction boards, and the remnants of a concrete vault. See Site Photographs in Appendix 15.3.

Former Homestead

Two structures associated with the former homestead are present at the Property. The house and barn are constructed with raised wooden floors, wooden wall and ceiling beams, and asphalt shingle roofs. Both structures have concrete basements.

POWER inspected the former homestead area of the Site. The structures were not entered due to safety concerns; however, portions of the interior were able to be observed from the exterior. With the exception of three (3) paint cans, empty buckets, and household refuse, the structures were essentially empty. The domestic well associated with the former homestead was not located. No recognized environmental conditions were noted.

Parking area and driveways are covered with gravel and/or asphalt and provide access to Koshkonong Road and Clearview Road.

Hazardous Material and Petroleum Products

The southeast portion of the maintenance area is utilized to store drums of lubricant oil, waste oil, compressor oil and oil sorbent materials. At the time of the Site visit, seven (7) drums were located in the storage area. The drums contained both waste oil and lubricant oil and were staged upon spill containment pallets. In addition to the drums, several buckets of compressor oil were also staged upon the spill containment pallets.

Two flammable liquid cabinets were also observed to be present in the southeast portion of the maintenance area. According to labeling, the cabinets contained gasoline, kerosene, engine oil, propylene glycol, cutting oil, spray paint, silicone fluid, and various cleaning solvents.

No current or past evidence of spills were observed.

The power plant utilizes fuel oil as an alternative fuel source for the turbine systems. Fuel oil is containerized in a 1.2 million-gallon AST. This double wall vessel is underlain by a concrete pad. To prevent over-fill, the tank utilizes a float gauge, a mechanical gauge for direct reading level measurement.

Fuel oil is delivered to the facility by means of tanker trucks. The unloading area is covered by a steel canopy and utilizes three (3) unloading pumps positioned within a concrete secondary containment berm. Fuel oil product is pumped from trucks into the AST via steel, above-ground piping. Additional components within the unloading area is a fuel oil heating skid and forwarding skid. A collection sump is located within the concrete berm and serves as additional spill containment.

Sumps, Pits, Wells

As previously mentioned, there are three water wells in operation at the Site. One well provides potable water to the facility and is located near the southeast corner of the control/maintenance building. Two high capacity wells provide water utilized in the electric generation process.

A containment sump is located within the truck unloading area. At the time of the site visit, ice and snow was observed in the area of the containment sump. No evidence of a release was observed.

Several drain tanks associated with the turbine systems are located within concrete containment vaults. At the time of the site visit, the containment pits were observed to contain ice and snow. No evidence of a release was observed.

Storage Tanks

The Property was inspected for visual evidence of ASTs and USTs. No USTs were discovered on-site. The following is a summary description of the ASTs at the facility.

Quantity	Facility Tank Identification	Contents	Capacity (Gallons)	Spill Prevention/Control
1	T1	Fuel Oil	1.2 Million	Yes
3	T2, T3, T4	Water Condensed	3,000	Yes
3	T5, T6, T7	Water Condensed	500	Yes
4	T8, T9, T10, T11	Dry Gas Scrubber, Water	150	Yes
3	T12, T13, T14	Combustion Turbine Lube Oil	6,200	Yes
3	T15, T16, T17	4160-480 V Transformer Oil	306	Yes
2	T18, T19	138-4.16 KV Transformer Oil	4,557	Yes
3	T20, T21, T22	Generator	12,250	Yes
3	T23, T24, T25	Excitation	230	Yes
2	T26, T27	Isolation	1,412	Yes
1	No I.D.	De-Mineralized Water	500,000	Yes
1	No I.D.	Raw Water for Fire	600,000	Yes
1	No I.D.	Propane	1,000	N.A.
1	No I.D.	Ansul Foam	1,000	Yes
1	No I.D.	Fuel Oil located in Fire Pump	500	Yes

In addition to the ASTs described above, steel underground piping is in use at the facility. According to Mr. Pledger, the majority of the piping is located underground and utilized to deliver fuel oil from the above ground storage tank to the turbine systems. A PAL-AT cable leak detection system is in operation at the facility. The system monitors for leaks associated with buried piping systems. Mr. Pledger was not aware of leaks associated with the underground piping system at the Site.

Polychlorinated Biphenyls

The Property was inspected for suspected polychlorinated biphenyl (PCB)-containing equipment such as electrical transformers and capacitors, fluorescent light ballasts, and hydraulic equipment.

A portion of the Property operates a power plant so numerous pieces of equipment potentially containing PCB were present. Thirteen (13) pad mounted transformers were observed at various locations around the turbine systems in operation at the Power Plant. Five (5) floor mounted transformers were observed within the breaker room of the control/maintenance building. According to the Facility Plan provided by Mr. Pledger, the transformers utilize mineral oil for the purposes of insulating and cooling. Only one of the transformers exhibited a non-PCB decal. The majority of the transformers appeared to be in good working order, within secondary containment, and no evidence of release observed.

Fluorescent lighting is utilized throughout the facility. It is unknown if the ballasts associated with any of the fluorescent fixtures contain PCBs; however, the facility was constructed after 1980. Therefore, the risk of fluorescent light fixtures within the facility containing PCBs would be considered low.

Distressed Vegetation and Soil Staining

At the time of the site visit, most of the area was covered in approximately four (4) to six (6) inches of snow and/or ice. As a result, observation of the ground surface was very limited.

No RECs or de minimis conditions were identified during the site reconnaissance.

6.0 INTERVIEWS

6.1 Interviews with Property Owner

The Property is currently owned by Calpine Operating Services Company, Inc (Calpine). Calpine constructed the Rockgen Power Plant in 2000. Calpine returned the interview form to Steve McVey on March 14, 2019. Calpine stated that, prior to the construction of the Rockgen Power Plant in 2000, the site has been used as a dairy farm dating back to 1910 and the northwest quadrant was used as a limestone quarry dating back to 1945. Calpine stated that the power generation facility is classified as a very small quantity generator of hazardous waste. They stated that no hazardous substances are used in bulk and herbicides are used for vegetation control by a licensed contractor. There was a minor spill of approximately 10 gallons of engine oil on December 12, 2017. The spill was reported and cleaned up, and no additional action was requested by the state agency.

A copy of the questionnaire and Calpine's responses can be found in Appendix 15.6.

This interview revealed no evidence that RECs are present at the Property.

6.2 Interviews with State and Local Government Officials

On March 13, 2019 POWER submitted a Public Information Request (PIR) to the Wisconsin FOIA Public Information System. On March 14, 2019, the Wisconsin FOIA Public Information System replied requesting a submittal to the Wisconsin Department of Natural Resources (DNR). On March 15, 2019, a PIR was sent to the Wisconsin Department of Natural Resources. On March 15, 2019, POWER received the PIR response, and Wisconsin DNR provided documentation of a spill dated December 12, 2017. According to information provided by the Wisconsin DNR (Spill ID #20171212SC13-1 BRRTS No 04-13-580881), the release of an estimated 70 gallon of engine oil was released within a concrete containment. Clean up actions included using a vacuum truck to capture the bulk of the spill and the remainder being scooped up in drums and absorbents. The records indicate nearly all spilled material was collected. The spill was closed with no further action required on January 24, 2018.

This interview and subsequent file review revealed no evidence that this spill constitutes a REC. The spilled material was reported to have occurred within an area of impervious cover resulting in no impacts to soil, ground water, or surface water.

6.3 Interviews with Others

Interviews with others were not performed.

7.0 FINDINGS

The following is a summary of the findings obtained from records review, site reconnaissance, and interviews for conditions that could adversely affect the subject Property.

Location	Hazardous Substances / Petroleum	Known or Suspected REC ¹ (Yes/No)	Controlled REC ² (Yes/No)	Historical REC ³ (Yes/No)	De Minimis ⁴ (Yes/No)
No Findings	NA	NA	NA	NA	NA

Based on the information reviewed no RECs or de minimis conditions were identified in association with the subject Property.

This ESA was performed in accordance with ASTM Standard Practice E 1527-13 guidelines. This practice contains specific definitions for environmental conditions that should be considered by the environmental professional performing the ESA.

- ¹ Confirmed based on information obtained from the current/past owner/occupant of the Property, records and/or direct evidence observed during the site reconnaissance, or determination was based on indirect evidence and conditions.
- ² A past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.
- ³ An environmental condition which in the past would have been considered a recognized environmental condition; but which may or may not be considered a recognized environmental condition currently.
- ⁴ De minimis conditions are conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions but are to be identified as per Section 12.6 of ASTM Standard Practice E 1527-13.

8.0 OPINION

For each finding identified in Section 7.0 of the ESA, the logic and reasoning used by the environmental professional in the assessment of the environmental condition is provided in the following table:

Environmental Condition (from Section 7.0)	Known or Suspected Impacts on the Property					De minimis		Current Recognized Environmental Condition ^{6,7}	
	S ¹	G ²	GW ³	VE ⁴	SW ⁵	Yes	No	Yes	No
No Findings	NA	NA	NA	NA	NA	NA	NA	NA	NA

¹ Structure

² Ground

³ Groundwater

⁴ Vapor Encroachment

⁵ Surface Water

⁶ Includes Controlled Recognized Environmental Conditions

⁷ May include Historical Recognized Environmental Conditions if there is a change in circumstances at the time the Phase I EAS was conducted

Based on the information reviewed no RECs or de minimis conditions were identified in association with the subject Property.

9.0 DEVIATIONS

There were no deletions or deviations from ASTM Practice E 1527-13 in the preparation of this report.

10.0 CONCLUSIONS

POWER has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-13 of an approximately 77.81+/- acre parcel, owned by Rockgen Energy LLC. The Property is located at 2346 Clear View Road in Christiana, Dane County, Wisconsin. Any exceptions to, or deletions from, this practice are described in Section 9.0 of this report.

This assessment has revealed no evidence of recognized environmental conditions or de minimis conditions in connection with the Property.

11.0 REFERENCES

The following references were used in the preparation of this report:

Clayton Group Services, Phase I Environmental Site Assessment Report for 2346 Clearview Road in Cambridge, Wisconsin, September 27, 2001

EDR Aerial Photo Decade Package, 3/11/2019, Environmental Data Resources, Inc., 6 Armstrong Road, 4th floor, Shelton, Connecticut 06484

EDR City Directory Image Report, 3/11/2019, Environmental Data Resources, Inc., 6 Armstrong Road, 4th floor, Shelton, Connecticut 06484

EDR Environmental Lien and AUL Search, 3/12/2019, Environmental Data Resources, Inc., 6 Armstrong Road, 4th floor, Shelton, Connecticut 06484

EDR Historical Topo Map Report, 3/11/2019, Environmental Data Resources, Inc., 6 Armstrong Road, 4th floor, Shelton, Connecticut 06484

EDR Radius Map Report with GeoCheck, 3/11/2019, Environmental Data Resources, Inc., 6 Armstrong Road, 4th floor, Shelton, Connecticut 06484

EDR Certified Sanborn Map Report, 3/11/2019, Environmental Data Resources, Inc., 6 Armstrong Road, 4th floor, Shelton, Connecticut 06484

Environmental Data Resources, Inc., 6 Armstrong Road, 4th Floor, Shelton, Connecticut 06484

Interview with Aida Guloy (Phase I User), Site Manager, 3/14/2019

Interview with Patrick Blanchard (Seller) Director, EHS, 3/15/2018

Interview with Wisconsin Department of Natural Resources, Philip Derge, 3/15/2019

12.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

This Environmental Site Assessment was prepared in accordance with Practice E 1527-13.

March 21, 2019

Date

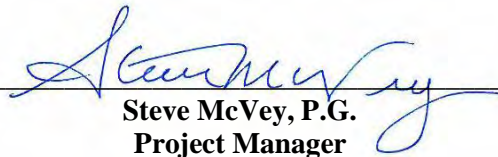
Prepared by
POWER Engineers, Inc.



Scott Collins
Environmental Specialist II



Jacob Geesin, G.I.T.
Environmental Specialist I



Steve McVey, P.G.
Project Manager

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The resumes of the POWER environmental professionals responsible for the preparation of this Environmental Site Assessment are provided in this section.

SCOTT COLLINS

ENVIRONMENTAL SPECIALIST / GEOLOGIST

YEARS OF EXPERIENCE

20

EDUCATION

- > M.B.A., Coursework, Indiana University Southeast
- > B.A., Geology, Eastern Kentucky University, 1992

AREAS OF EXPERTISE

- > Project Management
- > Phase I and II Environmental Site Assessments
- > Environmental Liability Identification and Estimating
- > Contaminant Investigation
- > Remediation Planning and Oversight
- > Environmental Permit and Regulatory Program Compliance
- > Brownfield Redevelopment

EXPERIENCE SUMMARY

Mr. Collins is an environmental scientist with extensive experience in environmental consulting and environmental compliance. He brings experience conducting property transfer due diligence projects for single sites as well as for large industrial portfolio transactions. He brings contaminant investigation, remediation planning, and remediation oversight experience.

Prior to joining POWER, Mr. Collins was a Project Manager in the Kentucky Department for Environmental Protection State Superfund Section. In this role, Mr. Collins managed the State's involvement at multiple state-lead Superfund sites, reviewed work plans and reports prepared by responsible parties, and monitored investigation, remediation, and operations and maintenance activities at these site.

Environmental Liability Cost Estimating, Confidential Client

Technical lead for review of existing environmental data and development of remediation cost estimates for a confidential client. POWER's client is the owner or past owner of multiple industrial facilities in New Jersey, Illinois, Texas, Missouri, California, and Georgia. Reviewed existing environmental investigation data and developed Best Case, Reasonable Worst Case, and Likely Case cost estimates for addressing contamination at the sites. The cost estimates were prepared to support the client counsel's insurance claims.

Jefferson Memorial Forest CERCLA Site, Kentucky

Regulatory Agency Project Manager for contaminant investigation, remediation planning, and remediation implementation. Activities at the site were being conducted as required by a directive from the Kentucky Superfund Branch after buried drums and industrial debris were discovered. This area was later determined to be associated with the Valley of the Drums NPL site. Reviewed work plans, managed and oversaw initial investigation and remediation activities, conducted routine groundwater sampling, and provided technical submittals, presentations and updates to responsible parties, community services, and local residents.

Environmental Liability Cost Estimating, Confidential Utility Client, Florida

Technical Lead for review of existing environmental data and preparation of cost estimates to address contaminant impacts. Work was completed for a confidential electric utility client interested in purchasing this site for expansion of their adjacent facility. Reviewed and updated an existing Phase I Environmental Site Assessment. Based on the findings of the Phase I ESA, prepared cost estimates to conduct investigation (sampling and analysis) of impacts identified in the Phase I. Also prepared Best Case, Reasonable Worst Case, and Likely Case cost estimates to complete remediation.

Kroger L-315 Site, Kentucky

Regulatory Agency Project Manager overseeing initial response activities associated with the discovery of Tetrachloroethylene in groundwater during construction of a new facility. The Kentucky Superfund Branch issued a directive for a site assessment that included historical land use research, soil and groundwater sampling, resistivity/seismic studies, and technical report submittals. Was the technical representative on-site during all phases of investigation activities, and provided technical guidance to responsible parties based on results of sampling and seismic interpretation.

Alumitech, Inc., Contaminant Investigation and Remediation, Kentucky

Project Manager for the concurrent assessment, delineation, and remediation of concentrated sulfuric acid and chromium impacts at a 65-acre facility that manufactured alloy wheels for the automotive industry. This project was extensive and involved over six months of active remediation, followed by agency meetings, several site visits to conduct additional sampling of soil and groundwater, dye tracing to identify groundwater flow paths, and interim reporting to regulatory agencies, the client, and community services. Served as project manager responsible for the technical, staff, budget and administrative oversight of the project, which included multiple company personnel, equipment, and subcontractors.

Seller's/Buyers Environmental Due Diligence, Multiple Projects, Multiple States

Project Manager and lead technical representative for several projects in support of an owner's pre-sale environmental due diligence. The projects were conducted in order to identify and quantify environmental, health, and safety liabilities so these could be remedied and/or disclosed to prospective purchasers. The confidential clients included Public Utilities in Kentucky and Tennessee, several manufacturing facilities in Kentucky and Indiana, a crude oil transportation terminal in Kentucky, and an abandoned oil refinery in Kentucky. The scope of work at these sites included Phase I Environmental Site Assessments to identify Recognized Environmental Conditions; cursory or in depth reviews (depending on the client's request) of compliance with environmental permits, plans, and regulations; and cursory or in-depth reviews of industrial hygiene, health, and safety performance at the facilities.

Brownfield Redevelopment Management, Multiple Sites, Kentucky

Project Manager for multiple brownfield redevelopment projects. As the principle reviewer for the Kentucky Brownfield Redevelopment Program, applications, property management plans, and Phase I, Phase II and Remediation Reports were reviewed for regulatory accuracy. Upon approval, Certificates of Eligibility were issued to bonafide, prospective purchasers.

ROB VON CZOERNIG, P.G.
PROJECT MANAGER

YEARS OF EXPERIENCE

17

EDUCATION

- B.S., Earth Sciences, West Chester University, 2000

AREAS OF EXPERTISE

- Environmental geology
- Soil and groundwater investigation/remediation
- Groundwater monitoring and sampling
- Environmental site assessments
- Environmental field inspections
- Solid/hazardous waste management
- Storm water pollution prevention permitting
- Storm water best management practice inspections
- FEMA floodplain development permitting

LICENSING

- Professional Geoscientist: Texas

SPECIAL TRAINING

- 40-Hour Health and Safety Training (OSHA) as per 29 CFR 1910.120
- 38-Hour Army Corps of Engineers Wetland Delineation Training Program, 2011
- 8-Hour Health and Safety Refresher Course (OSHA) as per 29 CFR 1910.120
- FERC Pipeline Construction Environmental Training

EXPERIENCE SUMMARY

Mr. von Czoernig is a registered Professional Geoscientist in the State of Texas and Project Manager. He has extensive experience conducting environmental assessments, investigations, site characterizations, and remedial actions as well as storm water and FEMA floodplain development permitting. His expertise exists in the areas of geologic and hydrogeologic studies in Pennsylvania, New Jersey, Arkansas, and Texas. Additional experience includes all facets of project management tasks including, but not limited to, proposal and cost estimate preparation; client, subcontractor, and regulatory agency interaction; and budget tracking. Mr. von Czoernig has performed soil and groundwater investigations addressing releases of petroleum hydrocarbons, other volatile and semi-volatile organic compounds, and metals. In addition, he has managed routine groundwater monitoring programs and the monthly operation and maintenance of groundwater and vapor recovery systems. Mr. von Czoernig has experience in implementing investigation work plans for Texas Commission on Environmental Quality TRRP projects. His experience encompasses environmental and geologic sampling, investigations and studies, oil and gas storage, oil and gas field services, and storm water and erosion control installation and inspections. Mr. von Czoernig has industry experience in semiconductor manufacturing, solid/hazardous waste disposal, and Environmental Management Systems (EMS)/ISO 14001 Implementation.

PREVIOUS WORK HISTORY

Consulting Experience

Mr. von Czoernig was responsible for the project management of 10 facilities in Pennsylvania and New Jersey for several clients, including oil companies, petroleum retailers, and lending institutions, in various stages of assessment and remediation of petroleum hydrocarbon product releases. Responsibilities pertaining to these aforementioned sites included, but were not limited to, conducting environmental site investigations, remedial services for soil and groundwater impacted by petroleum hydrocarbons, groundwater monitoring programs, and reporting.

He has also managed several site investigations, conducting subsurface investigations by utilizing several drilling techniques including, but not limited to, direct push, air rotary, hollow stem auger, mud rotary, ODEX, and various rock coring techniques. He has designed and overseen the installation of piezometer, monitoring, and recovery wells in various subsurface conditions.

Mr. von Czoernig has conducted aquifer testing and supervised geophysical surveys and the removal of numerous underground storage tank systems. He was responsible for the management of proposal and cost estimate preparation, client, subcontractor, and regulatory agency interaction and

correspondence, laboratory liaison, budget stewardship, and preparing and evaluating cost-to-closure estimates for clients.

He has monitored and sampled groundwater utilizing several different industry standard techniques. He was responsible for developing and implementing groundwater monitoring and sampling programs for several sites, and was responsible for interpreting the data and the subsequent reporting.

Mr. von Czoernig has managed the remediation of petroleum hydrocarbons from soil and groundwater from several sites. He was responsible for data interpretation and evaluation, access agreements, monitoring and recovery well installation, monitoring and sampling of remediation systems and wells, in addition to assisting in operation and maintenance duties on petroleum hydrocarbon remediation systems that utilize various remedial technologies.

He was responsible for writing various technical reports such as, but not limited to, Site Investigation Reports, Site Characterization Reports, Remedial Action Plans, and Groundwater Monitoring and Sampling Reports.

Mr. von Czoernig has served as key personnel in numerous environmental/community and occupational noise monitoring assessment projects, including services such as: conducting environmental baseline/background noise surveys, compliance with state noise standards, and occupational noise monitoring for compliance with OSHA noise standards.

He has prepared industrial Storm Water Pollution Prevention Plans (SWP3), as required by the TPDES General Permit TXR050000, for several industrial facilities, including fertilizer manufacturing, concrete batch plants, and quarries. Scopes of work included preparation of the SWP3 and site visits to review facility operations and drainage pathways.

Mr. von Czoernig has prepared construction SWP3s, as required by the TPDES General Permit TXR150000, for a number of construction projects, including a semiconductor facility and several petroleum pipeline projects.

He served as the principal environmental inspector for several large pipeline construction projects in Texas. Responsibilities included daily environmental site inspections, daily and weekly storm water pollution prevention inspections, oversight of installation and maintenance of erosion control devices, progress report submittals, correspondence with and point of contact for client and contractors, water and sediment sampling, and the dissemination of project-specific environmental guidelines and regulations. He was also on call to answer contractors' questions dealing with issues such as waste disposal and erosion control options, wetlands protections, and off right-of-way concerns.

Mr. von Czoernig has conducted oversight of daily biological monitoring during the construction phase of a pipeline installed within habitat of the Houston toad, golden-cheeked warbler, and black-capped vireo.

He was responsible for the preparation of permit applications for the FEMA Floodplain Development Program for two large pipeline construction projects in Texas, which involved 25 unincorporated areas (counties) and 12 incorporated areas (cities). He was responsible for all documentation, permit

status matrix tracking, and correspondence with each incorporated and unincorporated entity.

Mr. von Czoernig has prepared several environmental site assessments in compliance with ASTM E 1527-00, ASTM E 1527-05, and ASTM 1527-13.

Mr. von Czoernig was responsible for performing field investigations of a petroleum product terminal located in El Paso, Texas. The investigations were part of an affected property assessment for which an affected property assessment report was prepared to meet TRRP requirements. He was responsible for implementing all field sampling requirements of the work plan. The project included soil borings to define the extent of impacted media.

Mr. von Czoernig was responsible for performing oversight of soil excavations for response actions related to hydrocarbon releases for several petroleum pipeline spill responses. These projects included collecting soil samples to monitor the progression of excavations and to investigate extent of releases, as well as collection of confirmation samples to demonstrate that remedial activities were completed.

Mr. von Czoernig was responsible for implementing an investigation work plan associated with providing assistance in obtaining Voluntary Cleanup Program (VCP) eligibility for a former petroleum research and technical services facility located in Texas. The 64-acre property was being addressed under the VCP and TRRP rules for a release of chlorinated solvents to soil and groundwater. Mr. von Czoernig was responsible for conducting a subsurface investigation that identified at least three groundwater-bearing units between the depths of ten (10) and fifty (50) feet and the deeper Woodbine Aquifer. The affected property assessment involved collecting surface and subsurface soil samples from exploratory borings, installing single and multi-casted monitoring wells, collecting groundwater samples, and performing multiple aquifer tests (pump tests) to determine the Groundwater Resource Classification for soil and groundwater protective concentration limits (PCLs).

Mr. von Czoernig was responsible for implementing an investigation work plan associated with obtaining VCP eligibility for a manufacturing facility that historically used chlorinated solvents for degreasing. The on-site property being addressed under the VCP and TRRP rules was comprised of approximately four (4) acres, and was located over confining strata of two groundwater-bearing units between the depths of thirty (30) and sixty (60) feet and the deeper Edwards Aquifer. Mr. von Czoernig conducted several investigation phases for the affected property assessment. The affected property assessment involved the collection of surface and subsurface soil samples from exploratory borings, the installation of single and multi-casted monitoring wells, collection of groundwater samples, and multiple in-situ aquifer tests (slug tests and pump tests). In addition, he was responsible for implementation of a quarterly groundwater monitoring program to confirm that natural attenuation processes were decreasing and/or stabilizing COC concentrations in the two affected groundwater-bearing units identified in the APAR.

He currently supervises the semi-annual groundwater monitoring programs for the sludge storage impoundment unit and the corrective action management unit that are required by Lion Oil Company's post-closure hazardous waste permit. Each program requires statistical evaluation of

groundwater monitoring data collected from the point of compliance monitor wells adjacent to each waste disposal unit.

STEVE MCVEY, P.G.
SENIOR PROJECT MANAGER

YEARS OF EXPERIENCE

32

EDUCATION

- B.S., Geology, University of Texas at Austin, 1985

AREAS OF EXPERTISE

- Project management
- National Environmental Policy Act (NEPA) document preparation
- Endangered Species Act compliance
- Clean Water Act compliance
- Geological assessments
- Biological assessments

LICENSING

- Professional Geologist: Arkansas
- Professional Geoscientist: Louisiana
- Professional Geologist: Tennessee
- Professional Geoscientist: Texas

CERTIFICATION

- LPST Corrective Action Project Manager, Texas License No. PM000046, 2004
- 40-Hour OSHA Hazardous Waste Operations
- 8-Hour OSHA Site Manager and Supervisor
- Federal Energy Regulatory Commission-Environmental Review and Compliance for Natural Gas Facilities, June 2012
- TxDOT Pre-Certification: ESN #11037, 2.13.1 Hazardous Material Initial Site Assessment

EXPERIENCE SUMMARY

Mr. McVey's principle experiences are in the fields of geology, hydrogeology, karst geology, natural resources, petroleum geology and regulatory compliance. He is experienced in providing project management, environmental assessments, constraints analysis, natural resource management, agency coordination, corrective action and remediation. He has experience in assessing potential impacts to endangered species and Waters of the United States and coordinating with federal agencies to secure environmental permits.

Mr. McVey has managed a variety of projects ranging from due diligence services to comprehensive environmental permitting and National Environmental Policy Act (NEPA) projects with environmental fees exceeding \$1,800,000. He has experience tracking financials, schedules, and personnel to keep clients current with project progress. He also has experience in coordination and communication ranging from contractors and sub-consultants to lead federal agencies.

Mr. McVey has performed and supervised numerous environmental assessments (EAs) and environmental impact statements (EISs) in accordance with NEPA. Performance of these tasks required the coordination with environmental staff to conduct threatened and endangered species habitat, Waters of the U.S./wetland determinations, cultural resource surveys, and environmental justice analysis and document preparation. He has experience in coordinating with the U.S. Environmental Protection Agency (USEPA), the U.S. Fish and Wildlife Service (USFWS), U.S. Army Corps of Engineers (USACE) and the Petroleum Hazardous Material Safety Administration (PHMSA), and has successfully obtained a Finding of No Significant Impact (FONSI) on numerous environmental assessments.

Mr. McVey is a registered professional geologist in Texas, Tennessee, Arkansas, and Louisiana and has performed various hydrogeological investigations that involved the assessment, characterization, treatment, regulatory closure, and monitoring of industrial facilities. He has acquired environmental experience in state, Resources Conservation and Recovery Act (RCRA), and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) compliance-related projects including work plan and report preparation, regulatory agency communication, and has conducted and supervised a variety of field operations.

PREVIOUS WORK HISTORY

Consulting Experience

Mr. McVey has served as project manager for the federal permitting of a 450-mile petroleum pipeline in Texas. He supervised all aspects of the compilation of the United States Army Corps of Engineers (USACE) Section 404 permit and the preparation of a Biological Assessment (BA) in

conjunction with a Section 7 consultation between the United States Fish and Wildlife Service (USFWS) and the USACE. He also manages the biological monitoring during the construction phase of this project as the pipeline is installed within habitat of the Houston toad, golden-cheeked warbler and black-capped vireo. An extensive list of conservation measures was required in the USFWS Biological Opinion to enable the project owner to install the pipe through Houston toad habitat during breeding season.

Mr. McVey provided primary project management for the preparation of a NEPA EA for the Longhorn Pipeline. This NEPA document assessed impacts from two petroleum pipeline systems and several connected actions totaling more than 1,200 miles. The EA included a comprehensive risk assessment, environmental mitigation, and cumulative impacts. The Pipeline and Hazardous Materials Safety Administration (PHMSA) issued the FONSI for this project in December 2012.

Mr. McVey managed the preparation of more than ten BAs in conjunction with Greenhouse Gas Permits for the United States Environmental Protection Agency (USEPA). Each of these BAs assessed the potential to adversely affect threatened or endangered species that have a potential to occur within an action area defined by air dispersion modelling. He participated in informal consultations with the USFWS and the National Marine Fisheries Service.

Mr. McVey managed the preparation of an EA as a third-party contractor of the Department of Energy–National Energy Technology Laboratory. The EA assessed the potential for impacts to the human and natural environment resulting from conducting an innovative technology that removes carbon dioxide from flue gas emissions.

Mr. McVey served as project manager for numerous EAs at proposed correctional facilities in Texas, Oklahoma, Georgia, Pennsylvania, Colorado, Nevada, California, Mississippi, and Florida for the Federal Bureau of Prisons. He was responsible for the evaluation of baseline conditions and impacts analysis of each alternative site and for producing the draft and final NEPA EA documents. He coordinated with a third-party contractor for the Department of Justice to facilitate preparation of an EIS for selected solicitations.

He conducted most of the field investigations, data evaluation, report preparation, subcontractor coordination, and task management for a state-wide environmental services contract for the Texas Department of Transportation (TxDOT). He has performed a wide variety of environmental investigations ranging from Phase I Environmental Site Assessments to obtaining Texas Commission on Environmental Quality site closures for leaking underground storage tanks. His responsibilities grew as he assumed the project manager role and was subsequently responsible for obtaining a multi-year extension on the contract to provide services for the IH-45 Galveston Causeway demolition and construction project.

Mr. McVey assisted in conducting a hydrogeological investigation in support of a RCRA Facility Investigation (RFI) at Lion Oil Company, an Arkansas oil refinery/processing plant. The RFI included an extensive field and laboratory investigation to define site geology, groundwater hydrogeology, and the nature and extent of contamination associated with 17 solid waste management units identified at the facility.

He currently supervises the semi-annual groundwater monitoring programs for the sludge storage impoundment unit and the corrective action management unit that are required by Lion Oil Company's post-closure hazardous waste permit. Each program requires statistical evaluation of groundwater monitoring data collected from the point of compliance monitor wells adjacent to each waste disposal unit.

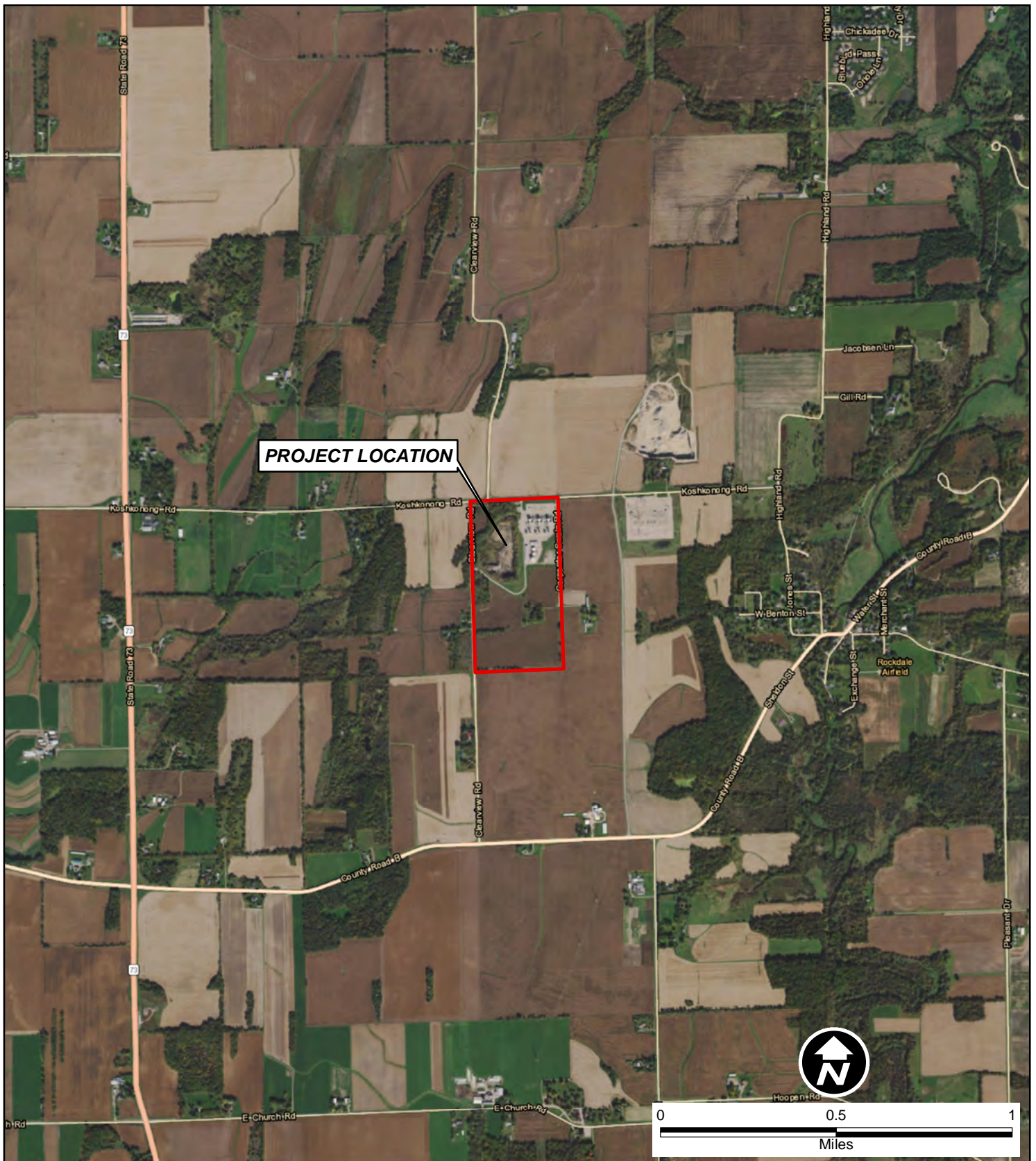
Mr. McVey provided project management services to the Texas Turnpike Authority Division (TTA) of the TxDOT. The services involved construction of SH 45 (from SH 130 to FM 685) and an extension of Loop 1 to include the intersection with SH 45 in Austin, Texas. Mr. McVey managed geological staff supervising ground disturbing activities along the project right-of-way. He and his staff provided geological services related to the presence of springs, caves, and karst development within the project right-of-way. He also assisted permitted karst specialists with the evaluation and biological collection of karst invertebrates at caves discovered during construction.

14.0 APPENDICES

The following appendices are provided in this report:

- 15.1 PROPERTY LOCATION
- 15.2 PROPERTY LAYOUT
- 15.3 PROPERTY PHOTOGRAPHS
- 15.4 HISTORICAL RESEARCH DOCUMENTATION
- 15.5 REGULATORY RECORDS DOCUMENTATION
- 15.6 INTERVIEW DOCUMENTATION
- 15.7 SPECIAL CONTRACTUAL CONDITIONS BETWEEN USER AND ENVIRONMENTAL PROFESSIONAL
- 15.8 SITE RECONNAISSANCE CHECK SHEET

APPENDIX 15.1 PROPERTY LOCATION



Legend

 Project Area



Area of Interest

PHASE I ENVIRONMENTAL SITE ASSESSMENT
ROCKGEN POWER PLANT

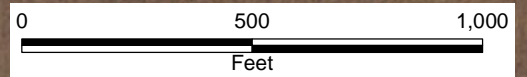
**APPENDIX 15.1
PROPERTY LOCATION MAP**

DANE COUNTY, WISCONSIN



Date: 3/11/2019

APPENDIX 15.2 PROPERTY LAYOUT



Legend

 Project Area



PHASE I ENVIRONMENTAL SITE ASSESSMENT
ROCKGEN POWER PLANT

**APPENDIX 15.2
PROPERTY LAYOUT MAP**

DANE COUNTY, WISCONSIN



Date: 3/11/2019

APPENDIX 15.3 PROPERTY PHOTOGRAPHS

Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 1:

View looking south.
Pictured is the
control/maintenance
building.



Photograph 2:

View looking east. Pictured is
the western end of the
control/maintenance building.
The propane AST is seen at the
left of the photograph.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 3:

Pictured is the reception area of the control/maintenance room.



Photograph 4:

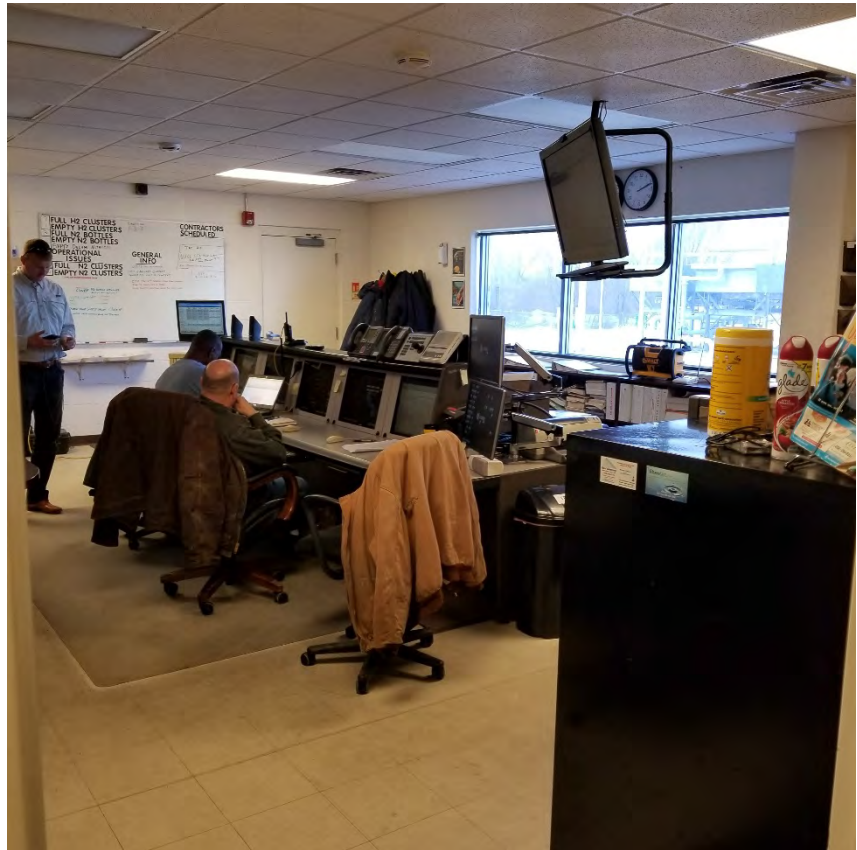
Pictured are the two offices off of the main reception room.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 5:

Pictured is the power plant control room.



Photograph 6:

Pictured is the maintenance area of the control/maintenance building.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
 Photographs by POWER Engineers, Inc.
 Photograph Date: March 12, 2019

Photograph 7:

Pictured is the drum/chemical storage area.



Photograph 8:

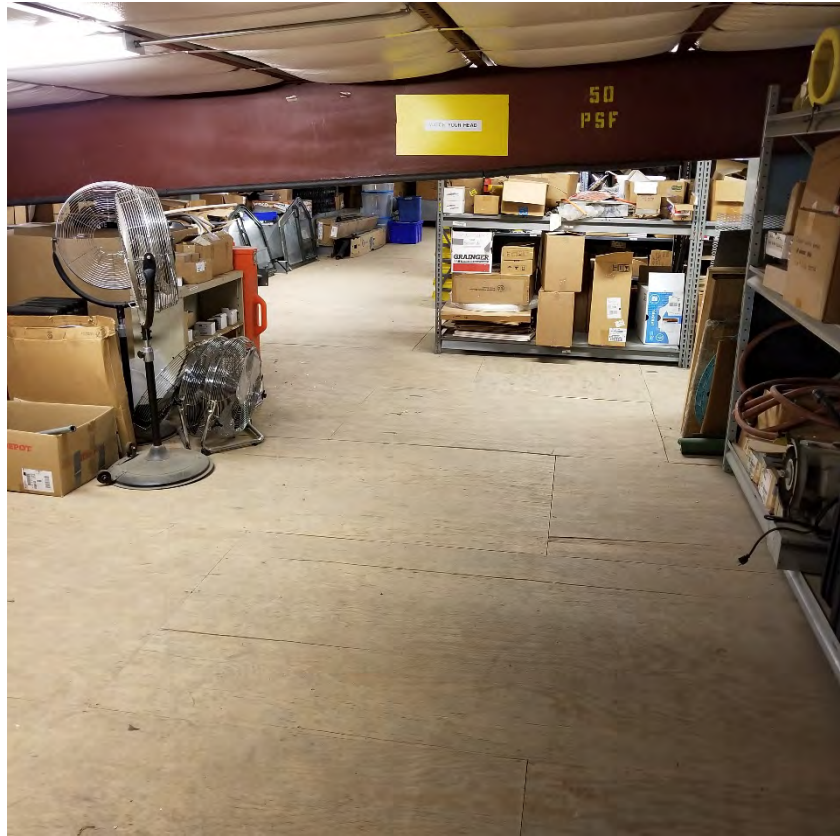
Pictured are the flammable liquid cabinets adjacent to the drum/chemical storage area.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 9:

Pictured is the second floor of the maintenance area.



Photograph 10:

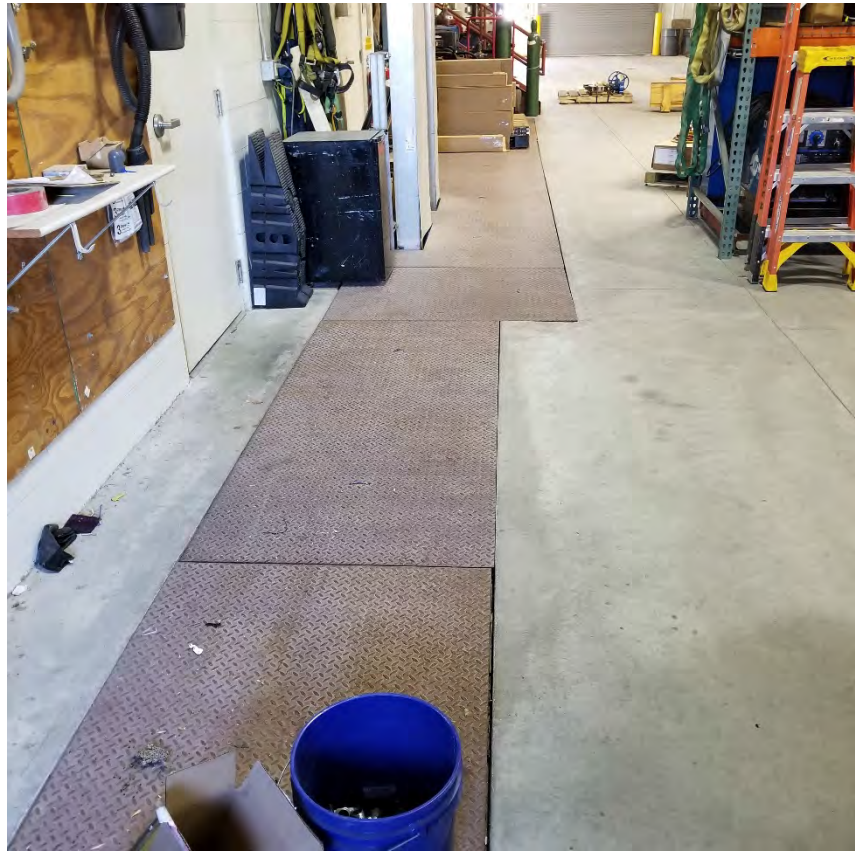
Pictured is the breaker room. The door in the background leads into the maintenance area of the building.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 11:

Pictured is the concrete trench containing cables and circuitry leading to the control room.



Photograph 12:

Pictured is the power plant located at the Site.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 13:

Pictured are two of the power plant's process drain tanks.



Photograph 14:

Pictured is one of the power plant's fuel gas conditioning tanks.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 15:

Pictured is one of the many transformers located throughout the power plant.



Photograph 16:

Pictured is one of the power plant's turbine chambers.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 17:

Pictured is one the power plant's carbon dioxide fire protection skids.



Photograph 18:

Pictured is the fuel gas separating drain tank.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 19:

Pictured is the covered fuel oil unloading area.



Photograph 20:

Pictured are some of the drums that were stored in the fuel oil unloading area.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 21:

Pictured is one of the fuel oil unloading pumps.



Photograph 22:

Pictured are the two fuel oil forwarding skids located in the unloading area.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 23:

Pictured is the fire pump house.



Photograph 24:

Pictured is the fuel oil tank inside of the fire pump house.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 25:

Pictured is the 1.2 million gallon fuel oil tank.



Photograph 26:

Pictured is the 500,000 gallon demineralized tank and the 600,000 raw water tank.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 27:

Pictured is the potable water well located near the southeast corner of the control/maintenance building.



Photograph 28:

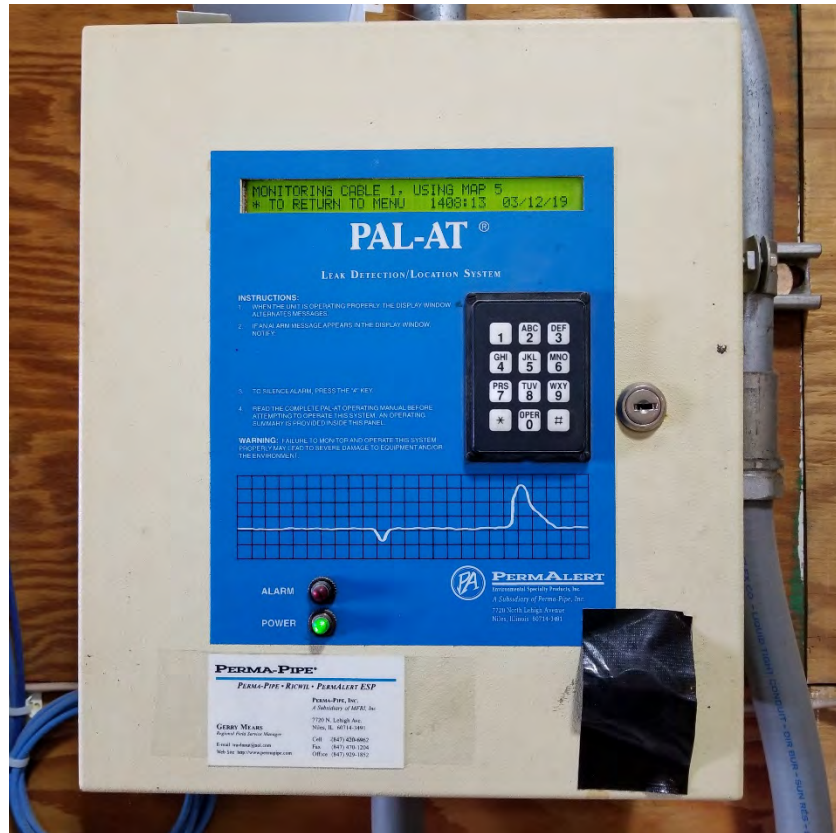
Pictured is one of the high capacity process water wells located in the southwest portion of the power plant area.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 29:

Pictured is the digital leak detection system that monitors underground piping at the facility.



Photograph 30:

View looking northeast from the bottom of the former rock quarry pit.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 31:

View looking north from the bottom of the former rock quarry pit.



Photograph 32:

Pictured is some of the household waste discovered to be present in the former quarry area.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 33:

Pictured is the concrete vault discovered within the former quarry area.



Photograph 34:

Pictured is additional household waste discovered within the former quarry area. Glass window blocks can be seen in the foreground.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 35:

View looking northwest from the bottom of the rock quarry pit.



Photograph 36:

Pictured is the residential structure located in the southern portion of the Property.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 37:

View looking north across the Property from the residential structure. The power plant can be seen in the background.



Photograph 38:

Pictured are some of the interior areas of the residential structure.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 39:

Pictured are additional interior areas from the rear of the residential structure.



Photograph 40:

Pictured is the barn structure also located in the southern portion of the Property.



Rockgen Energy, LLC
Phase I Environmental Site Assessment
2346 Clearview Road
Cambridge, Wisconsin
Photographs by POWER Engineers, Inc.
Photograph Date: March 12, 2019

Photograph 41:

Pictured is the basement area of the barn structure.



Photograph 42:

Pictured are three paint cans located on the main floor of the barn.



APPENDIX 15.4 HISTORICAL RESEARCH DOCUMENTATION



Rockgen Energy LLC

2346 Clearview Road

Cambridge, WI 53523

Inquiry Number: 5585156.11

March 11, 2019

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

03/11/19

Site Name:

Rockgen Energy LLC
2346 Clearview Road
Cambridge, WI 53523
EDR Inquiry # 5585156.11

Client Name:

Zephyr Environmental Corp.
2600 Via Fortuna
Austin, TX 78746
Contact: Steve Mcvey



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1996	1"=500'	Acquisition Date: April 21, 1996	USGS/DOQQ
1992	1"=500'	Flight Date: April 28, 1992	NAPP
1986	1"=500'	Flight Date: June 02, 1986	NHAP
1980	1"=500'	Flight Date: November 21, 1980	NHAP
1976	1"=500'	Flight Date: September 12, 1976	USDA
1968	1"=500'	Flight Date: May 08, 1968	ASCS
1962	1"=500'	Flight Date: August 28, 1962	ASCS
1955	1"=500'	Flight Date: April 08, 1955	USGS
1937	1"=500'	Flight Date: July 05, 1937	USDA

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INQUIRY #: 5585156.11

YEAR: 2017

— = 500'





INQUIRY #: 5585156.11

YEAR: 2013

— = 500'





INQUIRY #: 5585156.11

YEAR: 2010

— = 500'





INQUIRY #: 5585156.11

YEAR: 2006

— = 500'





INQUIRY # 5585156.11

YEAR: 1996

— = 500'





INQUIRY #: 5585156.11

YEAR: 1992

— = 500'





INQUIRY #: 5585156.11

YEAR: 1986

— = 500'



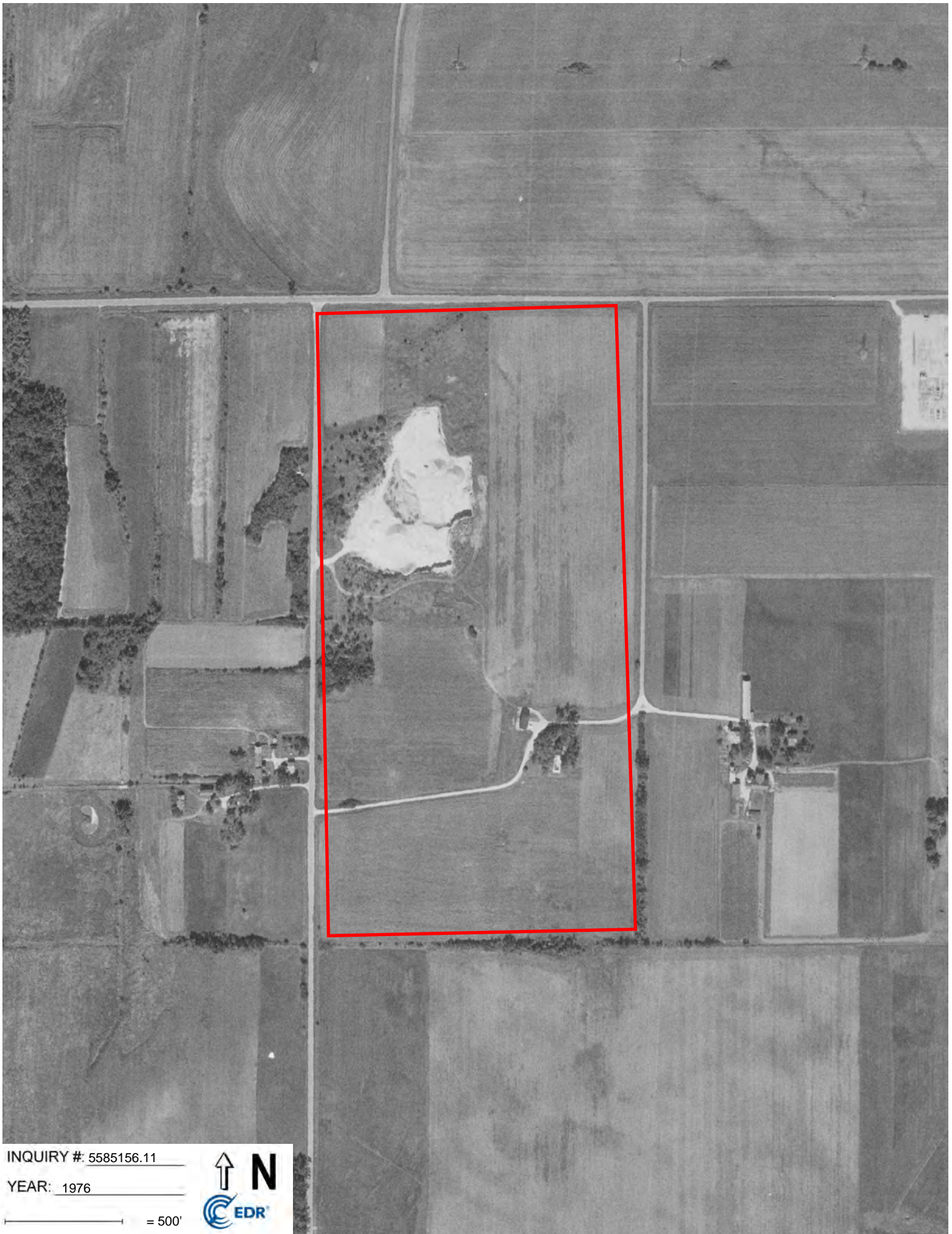


INQUIRY #: 5585156.11

YEAR: 1980

— = 500'



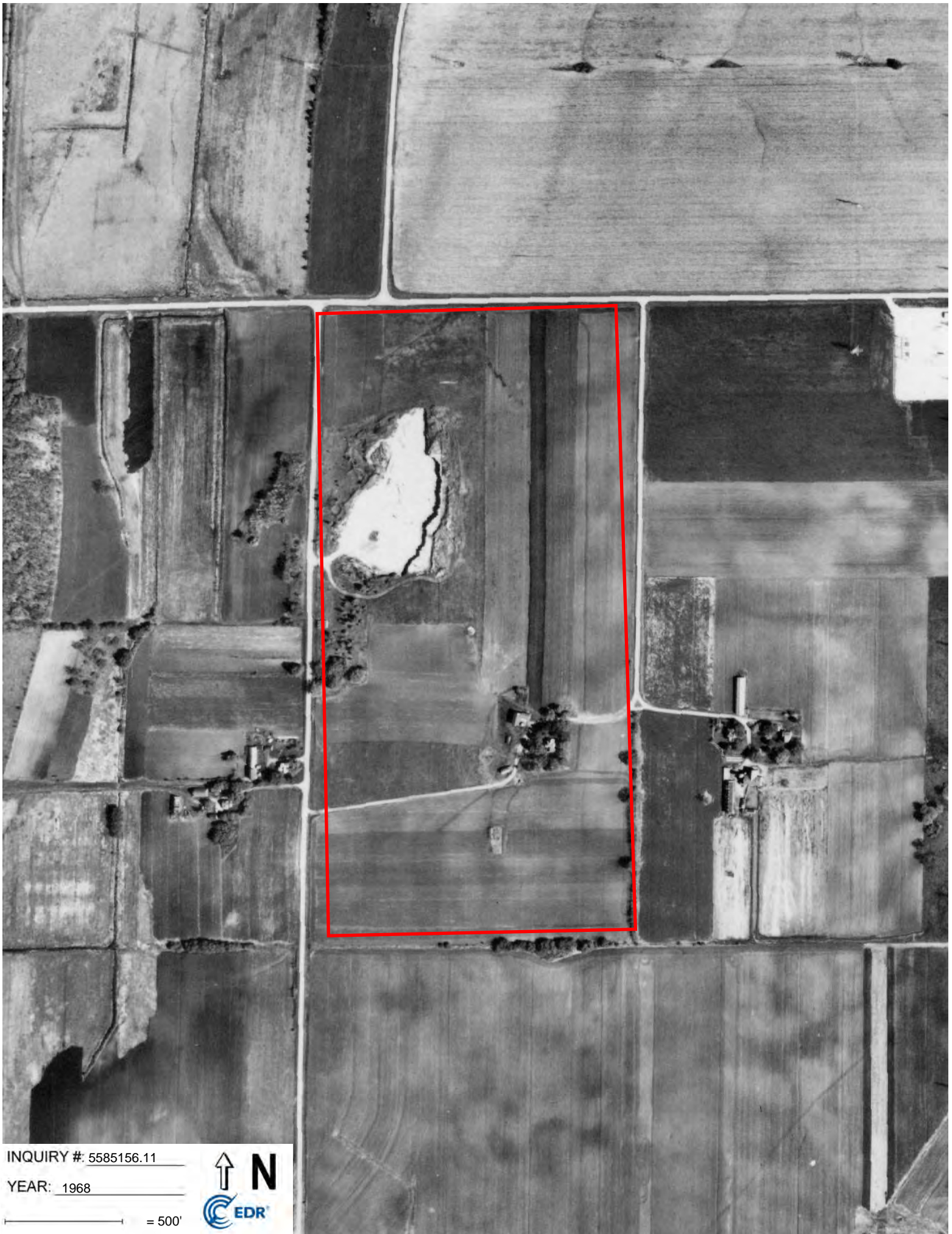


INQUIRY #: 5585156.11

YEAR: 1976

— = 500'



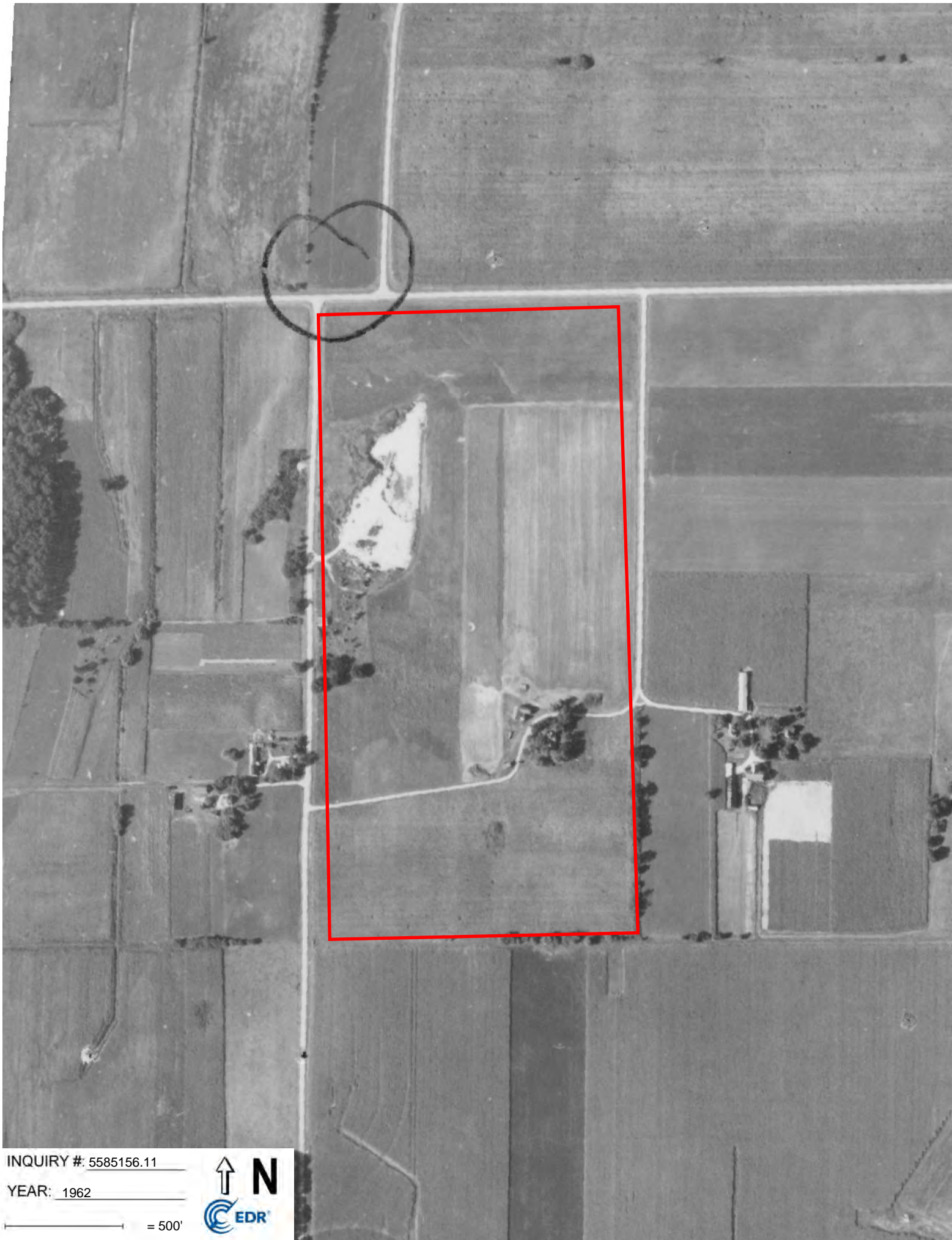


INQUIRY #: 5585156.11

YEAR: 1968

— = 500'





INQUIRY #: 5585156.11

YEAR: 1962

— = 500'





INQUIRY #: 5585156.11

YEAR: 1955

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.




INQUIRY #: 5585156.11

YEAR: 1937

— = 500'





Rockgen Energy LLC
2346 Clearview Road
Cambridge, WI 53523

Inquiry Number: 5585156.4

March 11, 2019

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

03/11/19

Site Name:

Rockgen Energy LLC
2346 Clearview Road
Cambridge, WI 53523
EDR Inquiry # 5585156.4

Client Name:

Zephyr Environmental Corp.
2600 Via Fortuna
Austin, TX 78746
Contact: Steve Mcvey



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Zephyr Environmental Corp. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	42.974519 42° 58' 28" North
Project:	Phase I ESA Rockgen Energy	Longitude:	-89.050129 -89° 3' 0" West
		UTM Zone:	Zone 16 North
		UTM X Meters:	332825.75
		UTM Y Meters:	4760024.43
		Elevation:	938.80' above sea level

Maps Provided:

2013
1976
1971
1961
1890

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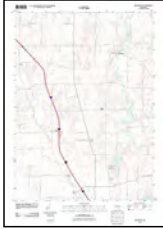
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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



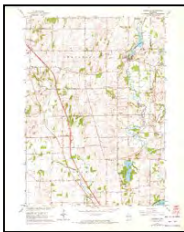
Rockdale
2013
7.5-minute, 24000

1976 Source Sheets



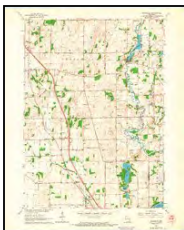
Stoughton
1976
15-minute, 62500
Aerial Photo Revised 1960

1971 Source Sheets



Rockdale
1971
7.5-minute, 24000
Aerial Photo Revised 1971

1961 Source Sheets

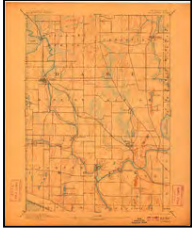


Rockdale
1961
7.5-minute, 24000
Aerial Photo Revised 1960

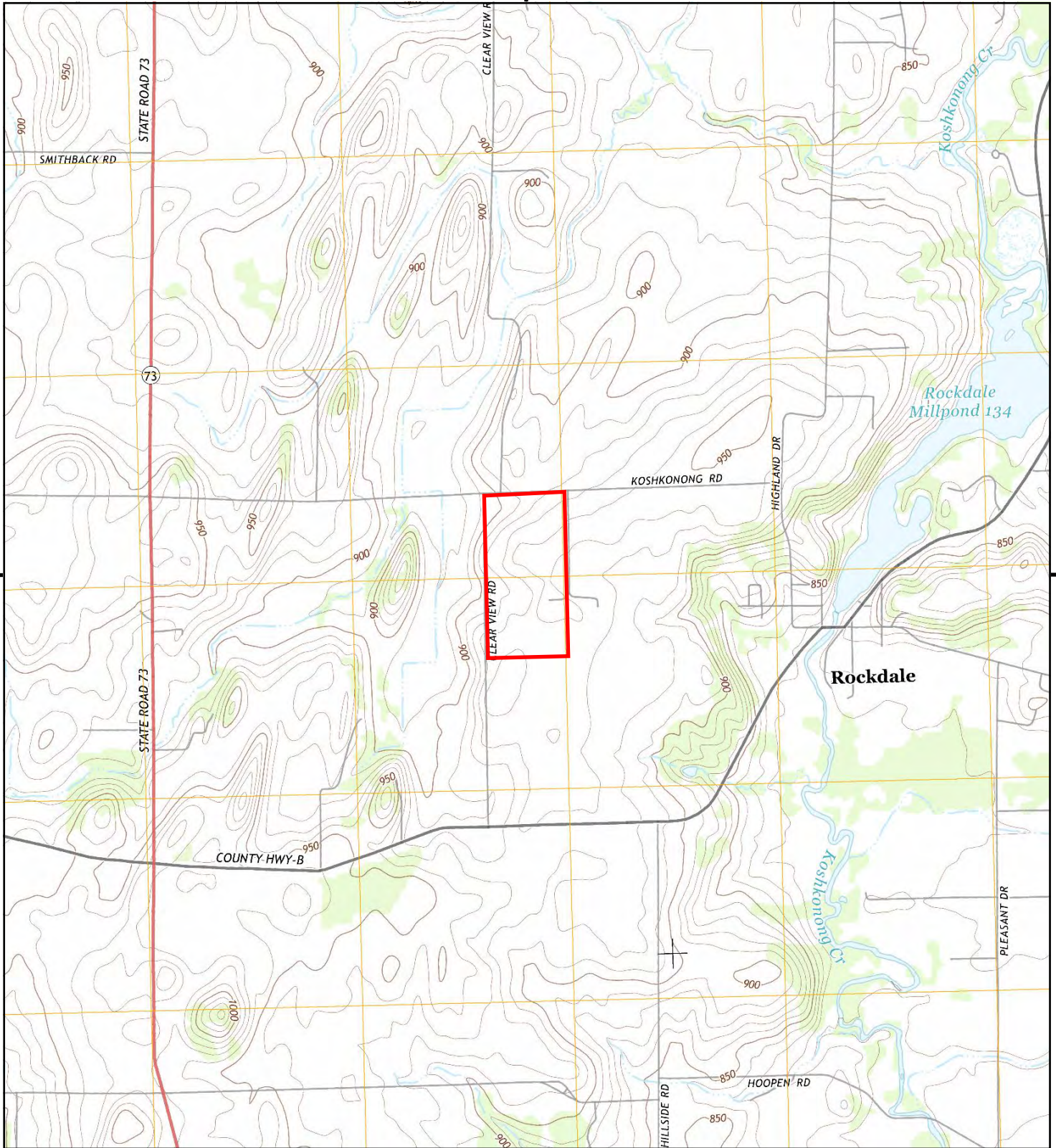
Topo Sheet Key

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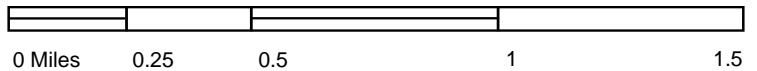
1890 Source Sheets



Stoughton
1890
15-minute, 62500



This report includes information from the following map sheet(s).



TP, Rockdale, 2013, 7.5-minute

SITE NAME: Rockgen Energy LLC
ADDRESS: 2346 Clearview Road
 Cambridge, WI 53523
CLIENT: Zephyr Environmental Corp.





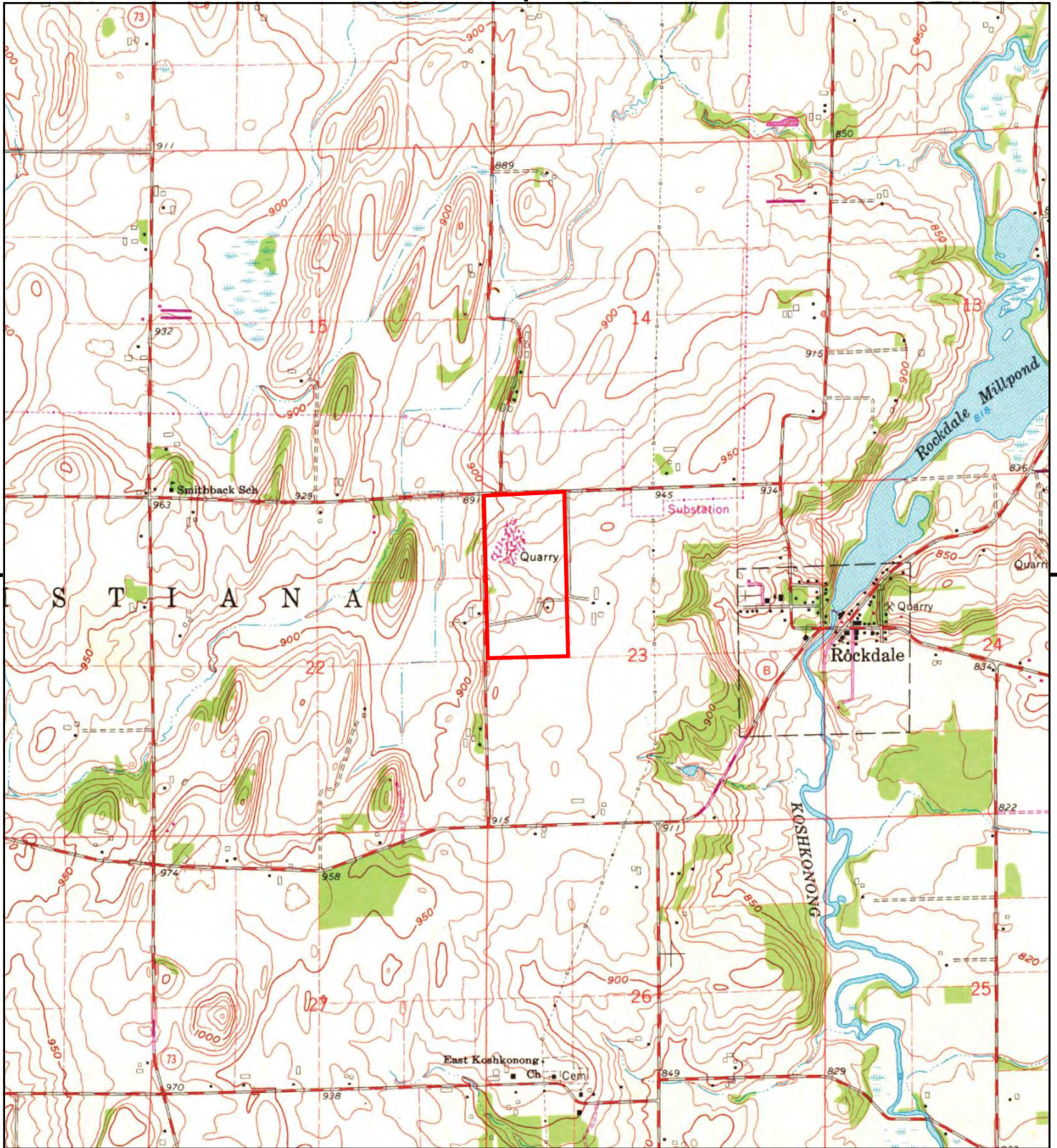
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SITE NAME: Rockgen Energy LLC
 ADDRESS: 2346 Clearview Road
 Cambridge, WI 53523
 CLIENT: Zephyr Environmental Corp.





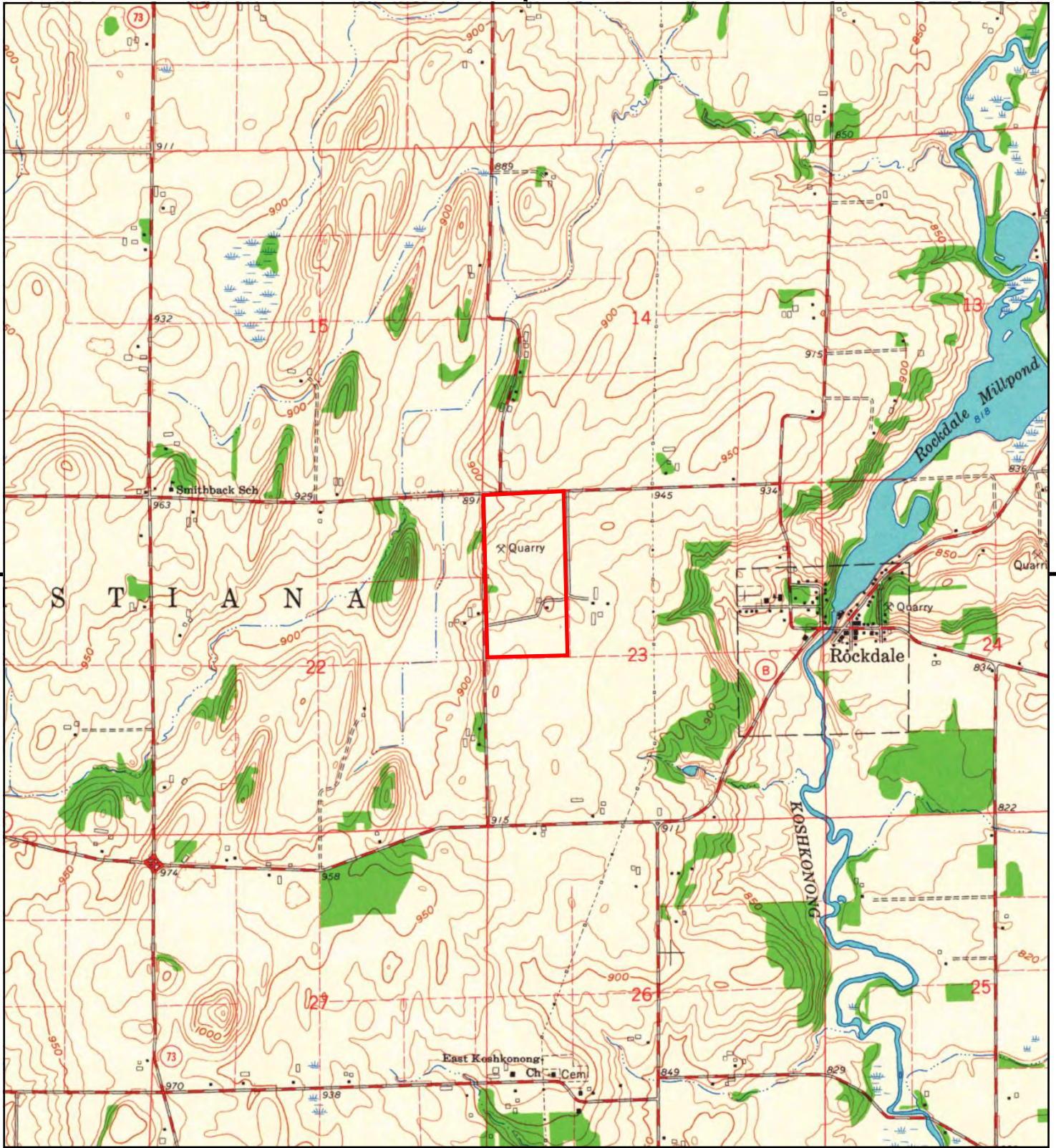
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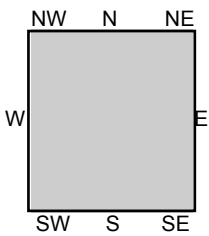
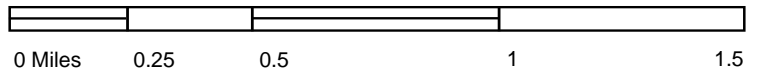
TP, Rockdale, 1971, 7.5-minute

SITE NAME: Rockgen Energy LLC
 ADDRESS: 2346 Clearview Road
 Cambridge, WI 53523
 CLIENT: Zephyr Environmental Corp.





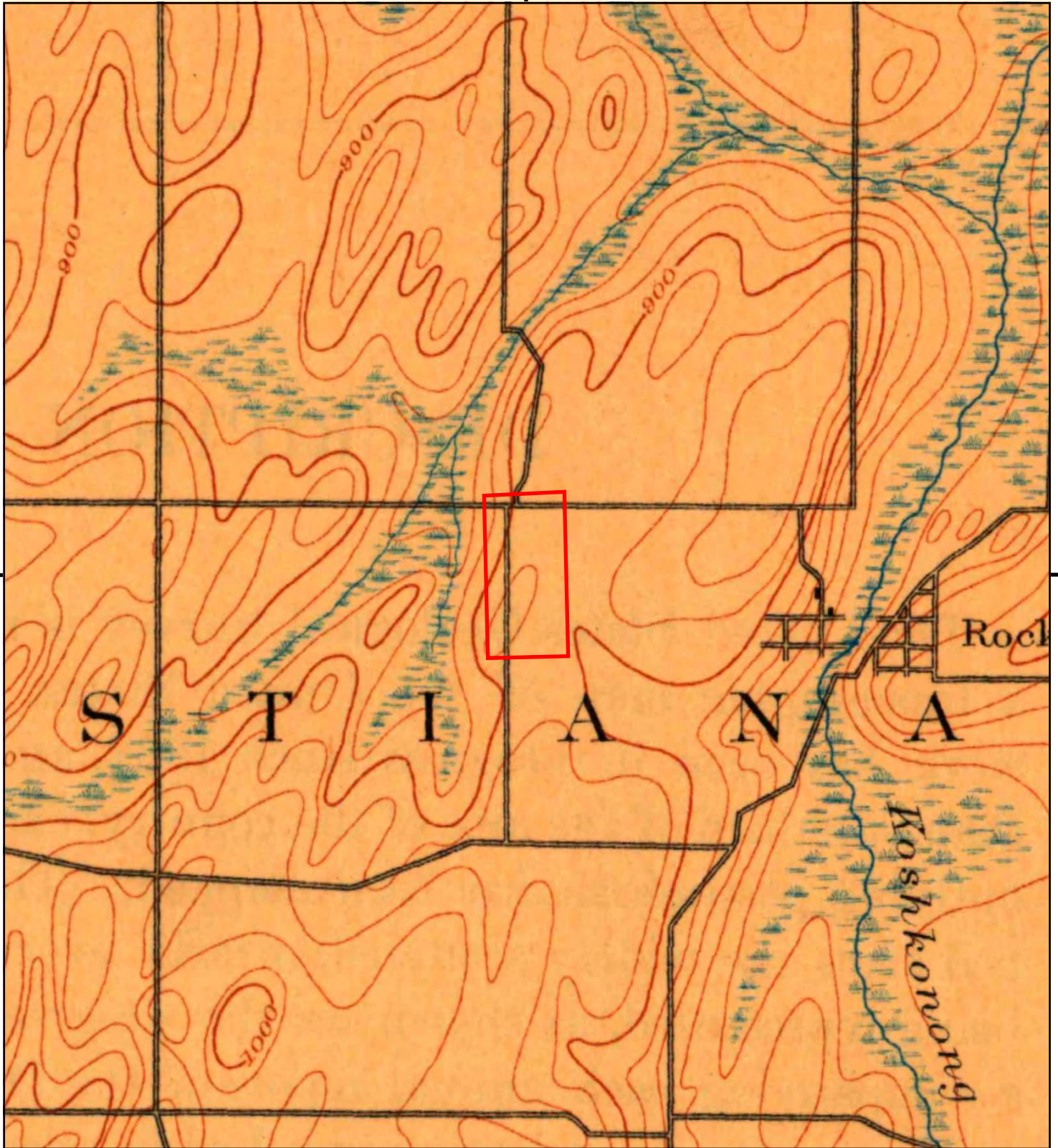
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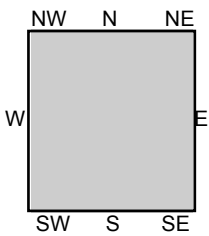
TP, Rockdale, 1961, 7.5-minute

SITE NAME: Rockgen Energy LLC
 ADDRESS: 2346 Clearview Road
 Cambridge, WI 53523
 CLIENT: Zephyr Environmental Corp.






This report includes information from the following map sheet(s).



TP, Stoughton, 1890, 15-minute

SITE NAME: Rockgen Energy LLC
ADDRESS: 2346 Clearview Road
Cambridge, WI 53523
CLIENT: Zephyr Environmental Corp.





Rockgen Energy LLC
2346 Clearview Road
Cambridge, WI 53523

Inquiry Number: 5585156.3

March 11, 2019

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/11/19

Site Name:

Rockgen Energy LLC
2346 Clearview Road
Cambridge, WI 53523
EDR Inquiry # 5585156.3

Client Name:

Zephyr Environmental Corp.
2600 Via Fortuna
Austin, TX 78746
Contact: Steve Mcvey



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Zephyr Environmental Corp. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 3838-4875-964C
PO # NA
Project Phase I ESA Rockgen Energy LLC

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 3838-4875-964C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Rockgen Energy LLC

2346 Clearview Road
Cambridge, WI 53523

Inquiry Number: 5585156.5
March 11, 2019

The EDR-City Directory Image Report

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City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

infoUSA[®]

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RESEARCH SUMMARY

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<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive

FINDINGS

TARGET PROPERTY STREET

2346 Clearview Road
Cambridge, WI 53523

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

CLEAR VIEW RD

2014	pg A2	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2005	pg A6	EDR Digital Archive
2000	pg A8	EDR Digital Archive
1995	pg A10	EDR Digital Archive
1992	pg A12	EDR Digital Archive

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

CARPENTER SWAIN RD

2014	pg. A1	EDR Digital Archive
2010	pg. A3	EDR Digital Archive
2005	pg. A5	EDR Digital Archive
2000	pg. A7	EDR Digital Archive
1995	pg. A9	EDR Digital Archive
1992	pg. A11	EDR Digital Archive

City Directory Images

CARPENTER SWAIN RD 2014

2302	CUSICK, WILLIAM J
2304	JOHNSON, LARS R JOHNSONS SMALL ENGINE REPAIR
2305	OCCUPANT UNKNOWN,

CLEAR VIEW RD 2014

2185	GAUSMANN, TONY P
2195	GRAYCO TRANSPORT LLC
	MICHAEL J MISLIVECEK
	MISLIVECEK, MICHAEL J
2293	HOMMEN, BRIAN T
2297	MICHAEL SCHAEEL
	SCHAEEL, MICHAEL H
2346	CALPINE SKYGEN ENERGY
	ROCKGEN ENERGY LLC
2466	OCCUPANT UNKNOWN,
2478	SHAW, DAVID P
2490	REINER, EVELYN F
	ROCK RIVER DRAINAGE
2569	SMITH, GARY P
2620	FAULKNER, MARCIA J
2819	HERRICK, RAYMOND M
2836	OMIT ERIC
	OMIT, ERIC
2844	JANSEN, BRAD
	VASBY FARMS INC
3000	VASBY, KENT A
3101	KLEMP, DALE E

CARPENTER SWAIN RD 2010

2302 CUSICK, LAURA A
2304 JOHNSON, CHARLES O

CLEAR VIEW RD 2010

2185	GAUSMANN, TONY P
2195	MALNAR, JOHN D
2293	HOMMEN, BRIAN T
2297	SCHAEL, MICHAEL H
2346	CALPINE SKYGEN ENERGY ROCKGEN ENERGY LLC
2466	LIEN CAROLYN
2478	BARTZ, BRANDON FROST LIKE ASHES
2490	REINER, FRANCIS J ROCK RIVER DRAINAGE
2569	SMITH, GARY P
2620	PEBBLE BROOKE FARMS SMITH, PHILLIP A
2709	DG & C ENTERPRISES LLC PFEIFER, GARY D
2819	HERRICK, RAYMOND M
2836	OMIT ERIC OMIT, LESLIE S
2844	VASBY FARMS INC
3045	ENGELSTAD, ROGER W
3101	KLEMP, DALE E

CARPENTER SWAIN RD 2005

2302 CUSICK, WILLIAM J
2304 JOHNSON, CHARLES O
JOHNSONS SMALL ENGINE REPAIR

CLEAR VIEW RD 2005

2185 HOMMEN SHANE D
2195 MALNAR, JOHN D
2293 HOMMEN, BRIAN T
2297 SCHAEEL, MICHAEL H
2346 ROCKGEN ENERGY LLC
2490 REINER, FRANCIS J
ROCK RIVER DRAINAGE
2569 SMITH, GARY P
2620 PEBBLE BROOKE FARMS
SMITH, GLENN R
2709 DG & C ENTERPRISES LLC
PFEIFER, GARY D
2819 HERRICK, RAYMOND M
2836 OMIT ERIC
OMIT, LESLIE S
2844 VASBY FARMS INC
VASBY, HELMER T
3000 VASBY, OSCAR A
3045 ENGELSTAD, ROGER W
3101 KLEMP, DALE E

CARPENTER SWAIN RD 2000

2302 CUSICK, WILLIAM
2304 JOHNSON, CHARLES O
2305 CARPENTER, THOMAS

CLEAR VIEW RD 2000

2185 OLSON, ANGELA
2195 MALNAR, JOHN D
2293 HOMMEN, BRIAN
2466 LIEN HOWARD & SONS INC
LIEN, L M
2478 MESTEMACHER, MELODY J
2490 REINER FRANCIS J
REINER, F J
2569 SMITH, GARY P
2620 PEBBLE BROOKE FARMS
SMITH, PHYLLIS E
2709 PFEIFER, GARY
STUTZ, S
2819 HERRICK, RAYMOND M
2844 VASBY FARMS INC
VASBY, HELMER
3000 PAWS INC
VASBY, KENT A
3045 ENGELSTAD, ROGER
3101 KLEMP, DALE

CARPENTER SWAIN RD 1995

2302 CUSICK, WILLIAM
2304 FIESER, JOHN
2305 CARPENTER, THOMAS

CLEAR VIEW RD 1995

2185	PARMER, D W
2195	MALNAR, JOHN D
2293	HOMMEN, BRIAN
2297	TUCKER, TERRY
2346	T&T STONE CO INC
2466	LIEN HOWARD & SONS INC
	LIEN, HOWARD
2490	REINER FRANCIS J
	REINER, F J
2569	SMITH, GARY P
2709	METZ, GARY
	PFEIFER, GARY
2819	HERRICK, RAYMOND M
2844	VASBY FARMS INC
	VASBY, HELMER
3000	PAWS INC
	VASBY, KENT A
3045	ENGELSTAD, ROGER
3101	KLEMP, DALE

CARPENTER SWAIN RD 1992

2304 FIESER, K
2305 CARPENTER, THOMAS

CLEAR VIEW RD 1992

2195 MALNAR, JOHN D
2293 HOMMEN, BRIAN
2466 LIEN HOWARD & SONS INC
LIEN, HOWARD
2478 NEKOLA, KEN
2490 REINER FRANCIS J
2569 SMITH, GARY P
2709 METZ, GARY
PFEIFER, GARY
2819 HERRICK, RAYMOND M
2844 VASBY FARMS INC
VASBY, HELMER
3000 PAWS INC
VASBY, KENT A
3045 ENGELSTAD, ROGER
3101 KLEMP, DALE
24902 REINER, FRANCIS J
26202 SMITH, EUGENE

Rockgen Energy LLC

2346 Clearview Road
Cambridge, WI 53523

Inquiry Number: 5585156.7
March 12, 2019

EDR Environmental Lien and AUL Search

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

2346 Clearview Road
Rockgen Energy LLC
Cambridge, WI 53523

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found

RESEARCH SOURCE

Source 1:

Dane County
Dane, WI

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Warranty Deed
Title is vested in:	Rockgen Energy LLC
Title received from:	Rockgen OL-4 LLC
Deed Dated	1/11/2008
Deed Recorded:	3/11/2008
Book:	NA
Page:	NA
Volume:	NA
Instrument:	4407066
Docket:	NA
Land Record Comments:	See Exhibit
Miscellaneous Comments:	NA
Legal Description:	See Exhibit
Legal Current Owner:	Rockgen Energy LLC
Parcel # / Property Identifier:	0612-232-8500-2, 0612-232-9000-5
Comments:	See Exhibit

Deed Exhibit 1



* 4 4 0 7 0 6 6 6 *

DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
4407066

03/11/2008 01:52PM

Exempt #: 6

Rec. Fee: 21.00
Pages: 6

DOCUMENT NO.

WARRANTY DEED (RG-4)

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS

Kirkland & Ellis LLP
AON Building
200 E. Randolph Drive
Chicago, IL 60601
Attention: John G. Caruso, Esq.
Telephone: (312) 861-2000

016-0612-232-8500-2 and
016-0612-232-9000-5

Parcel Identification Number

This is not homestead property

Prepared by:
Kirkland & Ellis LLP
AON Building
200 E. Randolph Drive
Chicago, IL 60601
Attention: John G. Caruso, Esq.

6/21

WARRANTY DEED (RG-4)

KNOW ALL MEN BY THESE PRESENTS that ROCKGEN OL-4, LLC, a Delaware limited liability company ("Grantor") for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has conveyed and warranted pursuant to that certain Purchase and Sale Agreement dated as of December 6, 2007, by and between Grantor and Grantee (the "Purchase Agreement") and by these presents does convey and warrant unto ROCKGEN ENERGY, LLC, a Wisconsin limited liability company ("Grantee") a 25% undivided interest in those certain improvements set forth in Attachment 1 attached hereto that constitute fixtures, structures, buildings, improvements and other items (but excluding land) constituting real property and which are located on the real property located in Dane County, Wisconsin more particularly described in Attachment 2 attached hereto and incorporated herein by this reference, together with all rights, titles, and interests appurtenant thereto (such improvements are hereinafter collectively referred to as the "Property"); provided, however, that the grant, sale, assignment, transfer and conveyance of Grantor's right, title and interest in the property set forth on Attachment 3 (the "Section 203 Property") is subject to the condition precedent that Grantee obtain Section 203 approval from the Federal Energy Regulatory Commission.

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereunto in anywise belonging, unto Grantee, its successors and assigns forever, and solely to the extent set forth in the Purchase Agreement, Grantor does hereby bind itself and its successors, to warrant and defend all and singular the title to the Property unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof. Simultaneously herewith, Grantor has executed and delivered a Bill of Sale (RG-4) pursuant to which Grantor has conveyed to Grantee, a 25% undivided interest in any and all portions of the improvements described in Attachment 1 hereto that are deemed to be personal property.

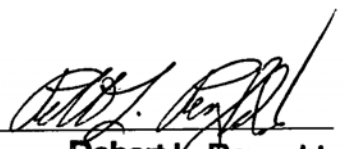
Solely to the extent set forth in the Purchase Agreement, Grantor warrants that the title to the Property is good, indefeasible fee simple and free and clear of encumbrances, subject to (i) all recorded covenants, restrictions, easements, reservations and agreements applicable to the real property described in said Attachment 2 and (ii) all other covenants, restrictions, easements created or permitted to exist by or otherwise arising from, the acts or omissions of Grantor.

DATED as this 11th day of January, 2008.

GRANTOR:

ROCKGEN OL-4, LLC, as Owner Lessor

By: **WELLS FARGO BANK NORTHWEST,
NATIONAL ASSOCIATION**, not in its individual
capacity but solely as Lessor Manager

By: 

Name: **Robert L. Reynolds**
Title: **Vice President**

STATE OF CONNECTICUT)
COUNTY OF MIDDLESEX) ss.:

On this 11th day of JANUARY, 2008 before me personally appeared Robert L. Reynolds, a/an VICE PRESIDENT of WELLS FARGO BANK NORTHWEST, NATIONAL ASSOCIATION, a national banking association, not in its individual capacity but solely as lessor manager of ROCKGEN OL-4, LLC, who acknowledges himself/herself to be such VICE PRESIDENT of such association, to me known to be the person who executed the foregoing instrument on behalf of and by authority of such association and acknowledged the same.

IN WITNESS WHEREOF, I hereunto set my hand and notarial seal.

William Kotkosky

Notary Public, State of Connecticut

My commission February 28, 2012

WILLIAM KOTKOSKY
NOTARY PUBLIC
MY COMMISSION EXPIRES FEB. 28, 2012

ATTACHMENT 1

DESCRIPTION OF FACILITIES

RockGen Facility

That certain approximately 520 megawatt net nameplate capacity generating facility, (known also as the "RockGen Facility") together with all structures or improvements, all alterations thereto or replacements thereof, and all other fixtures, attachments, appliances, equipment, machinery and other articles (including, but not limited to, the property set forth below (the "Included Property")), in each case located on the land, or on the easements appurtenant to the land, consisting of approximately 78 acres located in the Town of Christiana near the Village of Rockdale, in Dane County, Wisconsin, described more particularly on Exhibit B, but in each case solely to the extent transferred by Deed dated October 18, 2007 from Grantee to Grantor and recorded at pages 002281.

Included Property

1. Three Combustion Turbines - General Electric Model PG7241 FA+e; Serial #: 297570, 297571 and 297572.
2. Three CT Generators - General Electric, Hydrogen Cooled, 18kV, 220000 KVA, 0.85 pf; Serial #: 337X167, 337X168 and 337X169.
3. Three Combustion Turbine Step-up Transformers - GE Prolec, 18/138 KV, 220 MVA FA, WYE/DELTA, Serial #: 720-01, 720-02 and 720-03, and other interconnection equipment associated with the RockGen Facility.

ATTACHMENT 2

The West half of the Northwest Quarter (W1/2NW1/4) of Section Twenty-Three (23),
Township Six (6) North, Range Twelve (12) East, in the Town of Christiana, Dane County,
Wisconsin.

Tax parcel No: [016-0612-232-8500-2
 016-0612-232-9000-5]

Property Address: 2305 Carpenter Swain Road, Dane County, Wisconsin

APPENDIX 15.5 REGULATORY RECORDS DOCUMENTATION

Rockgen Energy LLC

2346 Clearview Road
Cambridge, WI 53523

Inquiry Number: 5585156.2s

March 11, 2019

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2346 CLEARVIEW ROAD
CAMBRIDGE, WI 53523

COORDINATES

Latitude (North): 42.9745190 - 42° 58' 28.26"
Longitude (West): 89.0501290 - 89° 3' 0.46"
Universal Transverse Mercator: Zone 16
UTM X (Meters): 332821.0
UTM Y (Meters): 4759809.5
Elevation: 938 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5952099 ROCKDALE, WI
Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20151011
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 2346 CLEARVIEW ROAD
 CAMBRIDGE, WI 53523

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ROCKGEN ENERGY CENTE	2346 CLEARVIEW RD	RCRA-CESQG, SHWIMS, SPILLS, US AIRS, FINDS, ECHO,...		TP
A2	ROCKGEN ENERGY CENTE	2346 CLEAR VIEW RD	AIRS		TP
A3	ROCKGEN ENERGY CENTE	2346 CLEARVIEW RD	AST		TP
4	T & T STONE CO INC	450 KOSHKONONG RD	SHWIMS	Lower	297, 0.056, NE
5	REINER FARM PROPERTY	2478 CLEARVIEW RD	LUST	Lower	1681, 0.318, North

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID	
ROCKGEN ENERGY CENTE 2346 CLEARVIEW RD CAMBRIDGE, WI 53523	RCRA-CESQG EPA ID:: WIR000110247	WIR000110247	
	SHWIMS FID: 113221570 Status: OPERATING		
	SPILLS Site Id: 7890100 Status: CLOSED		
	US AIRS Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110013294069		
	FINDS Registry ID:: 110013294069 Registry ID:: 110064327410		
	ECHO Registry ID: 110064327410 Registry ID: 110013294069		
	TIER 2 Facility ID: 194424 Facility ID: 106173 Facility ID: 106169 Facility ID: 106168 Facility ID: 106172 <i>*Additional key fields are available in the Map Findings section</i>		
	AIRS Permit No: 98-RV150R1-OP Permit No: delete Permit No: 113308030-P01 Permit No: 113308030-P10 Permit No: 113308030-P02 <i>*Additional key fields are available in the Map Findings section</i> Facility ID: 113308030		N/A
	AST Fire Dept ID: 1312		N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Hazard Ranking List

EXECUTIVE SUMMARY

WI ERP..... Environmental Repair Program Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... List of Licensed Landfills
WDS..... Registry of Waste Disposal Sites

State and tribal leaking storage tank lists

LAST..... Leaking Aboveground Storage Tank Listing
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Registered Underground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

CRS..... Closed Remediation Sites
AUL..... Deed Restriction at Closeout Sites

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Party Liability Exemption Sites

State and tribal Brownfields sites

BEAP..... Brownfields Environmental Assessment Program
BROWNFIELDS..... Brownfields Site Locations Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Center Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Clandestine Drug Lab Listing
US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS..... Environmental Liens Listing

EXECUTIVE SUMMARY

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
AGSPILLS..... Agricultural Spill Cases
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
ASBESTOS..... ASBESTOS
BRRTS..... Bureau of Remediation & Redevelopment Tracking System
COAL ASH..... Coal Ash Disposal Site Listing
DRYCLEANERS..... Five Star Recognition Program Sites
Financial Assurance..... Financial Assurance Information Listing
LEAD..... Lead Inspection Data
MANIFEST..... Hazardous Waste Manifest Data
NPDES..... NPDES Permit Listing
WI WRRSER..... Wisconsin Remedial Response Site Evaluation Report

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal landfill and/or solid waste disposal site lists

SHWIMS: Information on sites, and facilities operating at sites, that are regulated by the Waste Management program

A review of the SHWIMS list, as provided by EDR, and dated 11/21/2018 has revealed that there is 1 SHWIMS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
T & T STONE CO INC FID: 113268870 Status: OPERATING	450 KOSHKONONG RD	NE 0 - 1/8 (0.056 mi.)	4	49

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resource's LUST Database.

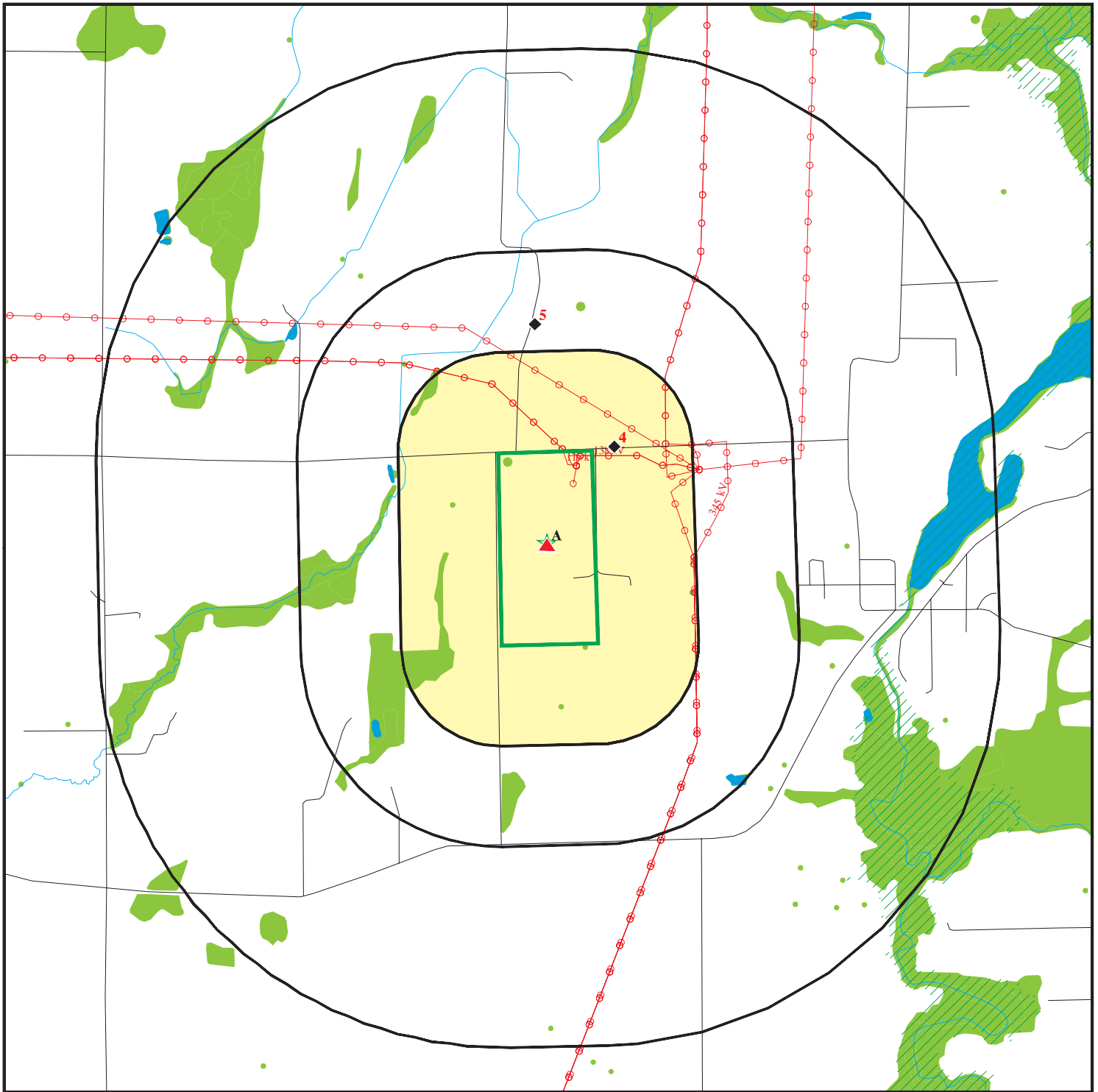
A review of the LUST list, as provided by EDR, and dated 11/01/2018 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.











<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
REINER FARM PROPERTY Facility Status: CLOSED Site Id: 7254300 Facility ID: NONE	2478 CLEARVIEW RD	N 1/4 - 1/2 (0.318 mi.)	5	49

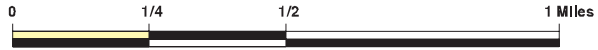
EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5585156.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory

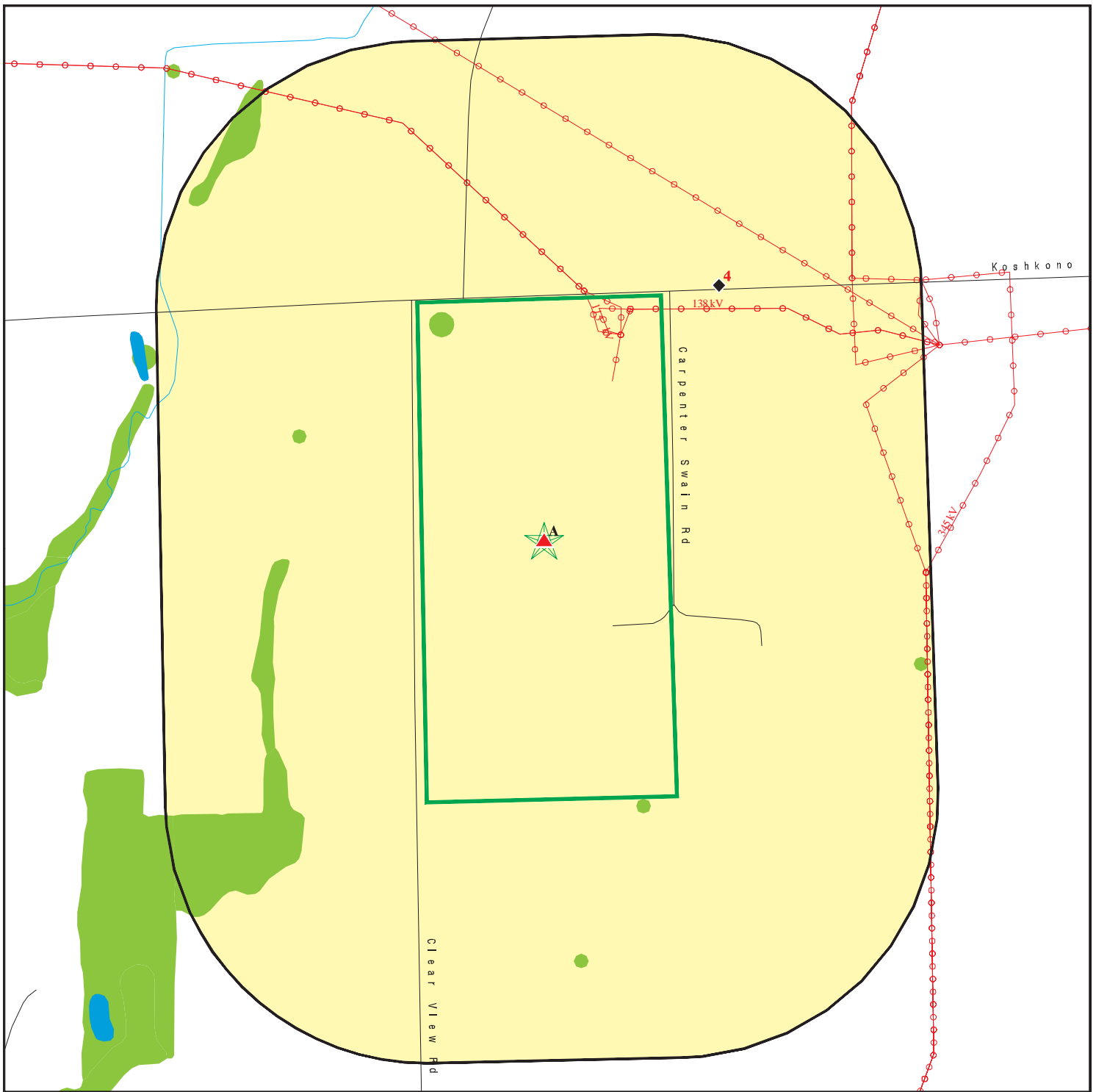









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.






SITE NAME: Rockgen Energy LLC
 ADDRESS: 2346 Clearview Road
 Cambridge WI 53523
 LAT/LONG: 42.974519 / 89.050129

CLIENT: Zephyr Environmental Corp.
 CONTACT: Steve Mcvey
 INQUIRY #: 5585156.2s
 DATE: March 11, 2019 10:58 am

DETAIL MAP - 5585156.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Rockgen Energy LLC
 ADDRESS: 2346 Clearview Road
 Cambridge WI 53523
 LAT/LONG: 42.974519 / 89.050129

CLIENT: Zephyr Environmental Corp.
 CONTACT: Steve Mcvey
 INQUIRY #: 5585156.2s
 DATE: March 11, 2019 11:00 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250	1	0	0	NR	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
WI ERP	0.500		0	0	0	NR	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
WDS	0.500		0	0	0	NR	NR	0
SHWIMS	0.500	1	1	0	0	NR	NR	2
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250	1	0	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
CRS	0.001		0	NR	NR	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BEAP	0.500		0	0	0	NR	NR	0
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001	1	0	NR	NR	NR	NR	1
AGSPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS 80	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001	1	0	NR	NR	NR	NR	1
ASBESTOS	0.001		0	NR	NR	NR	NR	0
BRRTS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
LEAD	0.001		0	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
TIER 2	0.001	1	0	NR	NR	NR	NR	1
WI WRRSER	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		9	1	0	1	0	0	11

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

ROCKGEN ENERGY CENTER
2346 CLEARVIEW RD
CAMBRIDGE, WI 53523

RCRA-CESQG 1006812152
SHWIMS WIR000110247
SPILLS
US AIRS
FINDS
ECHO
TIER 2

Site 1 of 3 in cluster A

Actual:
938 ft.

RCRA-CESQG:

Date form received by agency: 09/23/2002
Facility name: ROCKGEN ENERGY CENTER
Facility address: 2346 CLEARVIEW RD
CAMBRIDGE, WI 53523
EPA ID: WIR000110247
Contact: ALAN BECKHAM
Contact address: 2346 CLEARVIEW RD
CAMBRIDGE, WI 53523
Contact country: US
Contact telephone: 608-423-9052
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: RECKGEN ENERGY LLC
Owner/operator address: 2346 CLEARVIEW RD
CAMBRIDGE, WI 53523
Owner/operator country: Not reported
Owner/operator telephone: 608-423-9052
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1776
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

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ROCKGEN ENERGY CENTER (Continued)

1006812152

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF

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ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

SHWIMS:

FID: 113221570
Status: OPERATING
Region: SOUTH CENTRAL

SPILLS:

Site Id: 7890100
Detail Seq No: 544014
Activity Type: SPILL
Activity Name: CALPINE ROCKGEN ENERGY CENTER
Activity Number: 0413544014
Activity Display Number: 04-13-544014
Activity Detail Address: Not reported
Activity Comments: Not reported
Region Name: STH CNTRL
Facility ID: 113221570
Start Date: 05/26/2005
End Date: 06/06/2005
Last Action: 2005-06-06
Status Cd: C
Status: CLOSED
Jurisdiction: DNR RR
Act Code: 350
Owner Name: ROCKGEN ENERGY LLC
Owner Addr: 2346 CLEARVIEW RD
Owner City,St,Zip: CAMBRIDGE, WI 53523
Dept Of Commerce Number: NONE
Comm Occurrence Id: NONE
EPA Cerclis Id: Not reported
Risk Code: N/A
Acres: UNKNOWN
Acres 100: N
EPA NPL Site?: No
Dept Of Commerce Tracking: No
PECFA Funds Eligible?: No
Above Ground Storage Tank?: No
Drycleaner?: No
Co-contamination?: No
Public Land Survey System Desc: ?
Geo Located: N
DNR GIS Registry View Map Layers: Not reported
GIS Area Point Flag: N

Actions:

Action Date: 05/26/2005 Action Code: 1
Action Name: Spill Incident Occurred
Action Desc: Date the Spill occurred or the date reported to DNR if actual date unknown.
Action Comments: Not reported

Action Date: 05/26/2005 Action Code: 5
Action Name: Spill Reported to DNR

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Action Desc: Date the DNR was notified of the Spill incident.
Action Comments: Not reported

Action Date: 06/06/2005 Action Code: 11

Action Name: Spill Closed
Action Desc: No further action; RP is not required to conduct NR716 investigation.
Action Comments: Not reported

Incident Date: 05/26/2005 3:50:00 PM
Report Date: 05/26/2005 5:20:00 PM
Spill Source: 10
Notify Flag: Not reported
DNR Investigate: Not reported
Spill Cause: FAILED PIPE CONNECTION
Spill Color: Not reported
Spill Odor: Not reported
Physical Description: Not reported
Spill Comments: Not reported
Spill Comments: Not reported

Spill Action Code: 07
Spill Action Desc: Contractor Hired
Spill Action Comments: Not reported

Spill Action Code: 09
Spill Action Desc: Cleanup Method - Excavation
Spill Action Comments: Not reported

Substances:

Substance Desc: Engine Waste Oil
Amount Released: 300
Release Code: Gal

Impact Number: 547032
Impact Code: 13
Impact Comments: Concrete/Asphalt
Impact Potential: Not reported

Impact Number: 547033
Impact Code: 14
Impact Comments: Contained/Recovered
Impact Potential: Not reported

Impact Number: 547034
Impact Code: 05
Impact Comments: Soil Contamination
Impact Potential: Not reported

Contacts:

Role Desc: Project Manager
Contact Name: TED AMMAN
Contact Address: 3911 FISH HATCHERY RD
Contact Addr2: Not reported
Contact City,St,Zip: FITCHBURG
Contact Country: Not reported
Company Address: FITCHBURG,

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ROCKGEN ENERGY CENTER (Continued)

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Impact Code: 14
Impact Comments: Contained/Recovered
Impact Potential: Not reported

Contacts:

Role Desc: Project Manager
Contact Name: TED AMMAN
Contact Address: 3911 FISH HATCHERY RD
Contact Addr2: Not reported
Contact City,St,Zip: FITCHBURG
Contact Country: Not reported
Company Address: FITCHBURG,

Role Desc: Responsible Party
Contact Name: GENERAL ELECTRIC
Contact Address: 2346 CLEARVIEW RD
Contact Addr2: Not reported
Contact City,St,Zip: CAMBRIDGE, WI
Contact Country: UNITED STATES
Company Address: CAMBRIDGE , WI

Role Desc: RP Contact/Agent
Contact Name: JOE SMITH
Contact Address: 2346 CLEARVIEW RD
Contact Addr2: Not reported
Contact City,St,Zip: CAMBRIDGE, WI
Contact Country: UNITED STATES
Company Address: CAMBRIDGE, WI

US AIRS (AFS):

Envid: 1006812152
Region Code: 05
County Code: WI025
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
D and B Number: Not reported
Facility Site Name: ROCKGEN ENERGY CENTER
Primary SIC Code: 4911
NAICS Code: 221112
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2010-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-08-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-06-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-02-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR WI0000005502530803
Facility Registry ID:	110064327410
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2007-02-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR WI0000005502530803
Facility Registry ID:	110064327410
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-01-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR WI0000005502530803
Facility Registry ID:	110064327410
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-03-10 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR WI0000005502530803
Facility Registry ID:	110064327410
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-05-23 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR WI0000005502530803
Facility Registry ID:	110064327410
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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Activity Date: 2010-01-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-06-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410

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Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-01-26 00:00:00
Activity Status Date: 2015-03-05 15:37:36
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-01-29 00:00:00
Activity Status Date: 2015-12-22 16:37:50
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-29 00:00:00
Activity Status Date: 2016-03-22 15:38:22
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-01-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-01-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-01-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

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Activity Date: 2013-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR WI0000005502530803
Facility Registry ID: 110064327410
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

FINDS:

Registry ID: 110013294069

Environmental Interest/Information System

WI-ESR (Wisconsin - Environmental System Registry) is a database that contains core information about facilities, organizations, and people related to Wisconsin's DNR (Department of Natural Resources).

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean

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Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS AIR POLLUTANT MAJOR

ELECTRIC GENERATOR

GREENHOUSE GAS REPORTER

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

Registry ID: 110064327410

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR MAJOR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1006812152
Registry ID: 110064327410
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110064327410>

Envid: 1006812152
Registry ID: 110013294069
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110013294069>

TIER 2:

Facility ID: 194424
Facility Municipality: Not reported
Corporate Name: Not reported
Year: 2017
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 68476302
Chemical Name: DIESEL FUEL
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: Yes
Mix: No
Solid: No
Liquid: Yes
Gas: No
EHS: No
EHS Name: Not reported
Fire: Not reported
Pressure: No
Immediate: Yes
Delayed: Yes
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

MuniCode:	Not reported
Unit:	lbs
Is Hazard Reactivity:	No
Max Daily Amount Code:	Not reported
Max Daily Amount:	3500
Avg Daily Amount Code:	Not reported
Avg Daily Amount:	Not reported
Facility ID:	194424
Facility Municipality:	Not reported
Corporate Name:	Not reported
Year:	2017
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
CAS Number:	107211
Chemical Name:	ETHYLENE GLYCOL
Actual Max Amount:	Not reported
Actual Max Units:	Not reported
SIC Code:	Not reported
NAICS Code:	221111
Inv Reporting (Sec 311/312):	Not reported
Planning/Section 302 Facility:	Not reported
Planning Fac:	Not reported
Tier Two Inventory Fac:	Not reported
Location:	Not reported
Container Code:	Not reported
Pressure Code:	Not reported
Temp Code:	Not reported
Trade Secret:	Not reported
Pure:	No
Mix:	Yes
Solid:	No
Liquid:	Yes
Gas:	No
EHS:	No
EHS Name:	Not reported
Fire:	Not reported
Pressure:	Yes
Immediate:	No
Delayed:	No
Inventory Max:	Not reported
Inventory Avg:	Not reported
Inventory Days:	365
Contact Name1:	Not reported
Contact Phone1a:	Not reported
Contact Phone1b:	Not reported
Contact Name2:	Not reported
Contact Phone2a:	Not reported
Contact Phone2b:	Not reported
MuniCode:	Not reported
Unit:	lbs
Is Hazard Reactivity:	No
Max Daily Amount Code:	Not reported
Max Daily Amount:	55080
Avg Daily Amount Code:	Not reported
Avg Daily Amount:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

Facility ID: 194424
Facility Municipality: Not reported
Corporate Name: Not reported
Year: 2017
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 7664939
Chemical Name: SULFURIC ACID
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: Yes
Mix: No
Solid: No
Liquid: Yes
Gas: No
EHS: Yes
EHS Name: SULFURIC ACID
Fire: Not reported
Pressure: No
Immediate: Yes
Delayed: No
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported
MuniCode: Not reported
Unit: lbs
Is Hazard Reactivity: Yes
Max Daily Amount Code: Not reported
Max Daily Amount: 1200
Avg Daily Amount Code: Not reported
Avg Daily Amount: Not reported

Facility ID: 194424
Facility Municipality: Not reported
Corporate Name: Not reported
Year: 2017
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

CAS Number: 124389
Chemical Name: CARBON DIOXIDE
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: Yes
Mix: No
Solid: No
Liquid: Yes
Gas: Yes
EHS: No
EHS Name: Not reported
Fire: Not reported
Pressure: Yes
Immediate: Yes
Delayed: Yes
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported
MuniCode: Not reported
Unit: lbs
Is Hazard Reactivity: Yes
Max Daily Amount Code: Not reported
Max Daily Amount: 36000
Avg Daily Amount Code: Not reported
Avg Daily Amount: Not reported

Facility ID: 194424
Facility Municipality: Not reported
Corporate Name: Not reported
Year: 2017
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 7439921
Chemical Name: SULURIC ACID, LEAD, LEAD DIOXIDE, LEAD SULFATE
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: Yes
Mix: Yes
Solid: Yes
Liquid: Yes
Gas: No
EHS: No
EHS Name: Not reported
Fire: Not reported
Pressure: No
Immediate: Yes
Delayed: Yes
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported
MuniCode: Not reported
Unit: lbs
Is Hazard Reactivity: Yes
Max Daily Amount Code: Not reported
Max Daily Amount: 18900
Avg Daily Amount Code: Not reported
Avg Daily Amount: Not reported

Facility ID: 106169
Facility Municipality: CAMBRIDGE, VILLAGE OF - DANE
Corporate Name: Not reported
Year: 2016
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 124389
Chemical Name: CARBON DIOXIDE
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

Trade Secret:	Not reported
Pure:	TRUE
Mix:	FALSE
Solid:	FALSE
Liquid:	TRUE
Gas:	FALSE
EHS:	FALSE
EHS Name:	Not reported
Fire:	TRUE
Pressure:	TRUE
Immediate:	TRUE
Delayed:	TRUE
Inventory Max:	Not reported
Inventory Avg:	Not reported
Inventory Days:	365
Contact Name1:	Not reported
Contact Phone1a:	Not reported
Contact Phone1b:	Not reported
Contact Name2:	Not reported
Contact Phone2a:	Not reported
Contact Phone2b:	Not reported
MuniCode:	Not reported
Unit:	Not reported
Is Hazard Reactivity:	1
Max Daily Amount Code:	Not reported
Max Daily Amount:	36000
Avg Daily Amount Code:	Not reported
Avg Daily Amount:	36000
Facility ID:	106172
Facility Municipality:	CAMBRIDGE, VILLAGE OF - DANE
Corporate Name:	Not reported
Year:	2016
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
CAS Number:	7439921
Chemical Name:	SULURIC ACID, LEAD, LEAD DIOXIDE, LEAD SULFATE
Actual Max Amount:	Not reported
Actual Max Units:	Not reported
SIC Code:	Not reported
NAICS Code:	221111
Inv Reporting (Sec 311/312):	Not reported
Planning/Section 302 Facility:	Not reported
Planning Fac:	Not reported
Tier Two Inventory Fac:	Not reported
Location:	Not reported
Container Code:	Not reported
Pressure Code:	Not reported
Temp Code:	Not reported
Trade Secret:	Not reported
Pure:	TRUE
Mix:	TRUE
Solid:	TRUE
Liquid:	TRUE
Gas:	FALSE
EHS:	FALSE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

EHS Name: Not reported
Fire: TRUE
Pressure: FALSE
Immediate: TRUE
Delayed: TRUE
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported
MuniCode: Not reported
Unit: Not reported
Is Hazard Reactivity: 1
Max Daily Amount Code: Not reported
Max Daily Amount: 18900
Avg Daily Amount Code: Not reported
Avg Daily Amount: 18900

Facility ID: 106170
Facility Municipality: CAMBRIDGE, VILLAGE OF - DANE
Corporate Name: Not reported
Year: 2016
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 7664939
Chemical Name: SULFURIC ACID
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: TRUE
Mix: FALSE
Solid: FALSE
Liquid: TRUE
Gas: FALSE
EHS: TRUE
EHS Name: SULFURIC ACID
Fire: FALSE
Pressure: FALSE
Immediate: TRUE
Delayed: FALSE
Inventory Max: Not reported
Inventory Avg: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported
MuniCode: Not reported
Unit: Not reported
Is Hazard Reactivity: 1
Max Daily Amount Code: Not reported
Max Daily Amount: 1200
Avg Daily Amount Code: Not reported
Avg Daily Amount: 1200

Facility ID: 106168
Facility Municipality: CAMBRIDGE, VILLAGE OF - DANE
Corporate Name: Not reported
Year: 2016
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 68476302
Chemical Name: DIESEL FUEL
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: TRUE
Mix: FALSE
Solid: FALSE
Liquid: TRUE
Gas: FALSE
EHS: FALSE
EHS Name: Not reported
Fire: TRUE
Pressure: FALSE
Immediate: TRUE
Delayed: TRUE
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

1006812152

MuniCode: Not reported
Unit: Not reported
Is Hazard Reactivity: 0
Max Daily Amount Code: Not reported
Max Daily Amount: 3500
Avg Daily Amount Code: Not reported
Avg Daily Amount: 3500

Facility ID: 106173
Facility Municipality: CAMBRIDGE, VILLAGE OF - DANE
Corporate Name: Not reported
Year: 2016
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
CAS Number: 107211
Chemical Name: ETHYLENE GLYCOL
Actual Max Amount: Not reported
Actual Max Units: Not reported
SIC Code: Not reported
NAICS Code: 221111
Inv Reporting (Sec 311/312): Not reported
Planning/Section 302 Facility: Not reported
Planning Fac: Not reported
Tier Two Inventory Fac: Not reported
Location: Not reported
Container Code: Not reported
Pressure Code: Not reported
Temp Code: Not reported
Trade Secret: Not reported
Pure: FALSE
Mix: TRUE
Solid: FALSE
Liquid: TRUE
Gas: FALSE
EHS: FALSE
EHS Name: Not reported
Fire: TRUE
Pressure: TRUE
Immediate: FALSE
Delayed: FALSE
Inventory Max: Not reported
Inventory Avg: Not reported
Inventory Days: 365
Contact Name1: Not reported
Contact Phone1a: Not reported
Contact Phone1b: Not reported
Contact Name2: Not reported
Contact Phone2a: Not reported
Contact Phone2b: Not reported
MuniCode: Not reported
Unit: Not reported
Is Hazard Reactivity: 0
Max Daily Amount Code: Not reported
Max Daily Amount: 55080
Avg Daily Amount Code: Not reported
Avg Daily Amount: 55080

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)
EDR ID Number
EPA ID Number

A2 **ROCKGEN ENERGY CENTER**
Target **2346 CLEAR VIEW RD**
Property **CAMBRIDGE, WI 53523**

AIRS **S123303049**
 N/A

Site 2 of 3 in cluster A

Actual:
938 ft.

AIRS:

Facility ID:	113308030
SIC Code:	4911
NAICS Code:	22111
Region:	Not reported
Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported
District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	-89.051280 / 42.9757699
DNR Contact:	AIDA GULOY
Telephone:	Not reported
Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Email:	Aida.Guloy@calpine.com
Permit No:	98-RV150R1-OP
Permit Type:	Con-OP
APP Complete Deadline:	Not reported
Expiration Date:	Not reported
Material Code:	Not reported
2007 Tons:	Not reported
Device Id:	P02
Flag Permit File:	Not reported
RCO First Name:	Not reported
RCO Last Name:	Not reported
Permit Action:	Not reported
Permit Status:	Not reported
Permit Issued:	Not reported
Exemption Approved:	Not reported
RT Exemption Approved:	Not reported
Permit Revocation ROP:	Not reported
Permit Revocation Other:	Not reported
Device Desc:	COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id:	01
Process Nm:	NATURAL GAS
Throughput Amt:	242.979997
Throughput Unit:	MMCF
Throughput Material:	Natural Gas
Year:	2009

Facility ID:	113308030
SIC Code:	4911
NAICS Code:	22111
Region:	Not reported
Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	42.9765159 / -89.048758
DNR Contact:	AIDA GULOY
Telephone:	Not reported
Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Email:	Aida.Guloy@calpine.com
Permit No:	delete
Permit Type:	Unknown
APP Complete Deadline:	Not reported
Expiration Date:	Not reported
Material Code:	Not reported
2007 Tons:	Not reported
Device Id:	P02
Flag Permit File:	Not reported
RCO First Name:	Not reported
RCO Last Name:	Not reported
Permit Action:	Not reported
Permit Status:	Not reported
Permit Issued:	Not reported
Exemption Approved:	Not reported
RT Exemption Approved:	Not reported
Permit Revocation ROP:	Not reported
Permit Revocation Other:	Not reported
Device Desc:	COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id:	01
Process Nm:	NATURAL GAS
Throughput Amt:	706.899996
Throughput Unit:	MMCF
Throughput Material:	Natural Gas
Year:	2010
Facility ID:	113308030
SIC Code:	4911
NAICS Code:	22111
Region:	Not reported
Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported
District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	42.9765159 / -89.048758
DNR Contact:	AIDA GULOY
Telephone:	Not reported
Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Contact Email: Aida.Guloy@calpine.com
Permit No: 113308030-P01
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P02
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 706.899996
Throughput Unit: MCMF
Throughput Material: Natural Gas
Year: 2010

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: 42.9765159 / -89.048758
DNR Contact: AIDA GULOY
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Aida.Guloy@calpine.com
Permit No: 98-RV150R1-OP
Permit Type: Con-OP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P03
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 356
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2010

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: 42.9765159 / -89.048758
DNR Contact: AIDA GULOY
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Aida.Guloy@calpine.com
Permit No: 113308030-P10
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P02
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 706.899996
Throughput Unit: MMCF
Throughput Material: Natural Gas

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Year: 2010

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: 42.9765159 / -89.048758
DNR Contact: AIDA GULOY
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Aida.Guloy@calpine.com
Permit No: 113308030-P10
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P01
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 687.149996
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2010

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: -89.051277 / 42.9757699
DNR Contact: Lisa Pongnon
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: lisa.pongnon@calpine.com
Permit No: 113308030-P10
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P01
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 02
Process Nm: BACKUP - DISTILLATE FUEL OIL
Throughput Amt: 0
Throughput Unit: E3 GAL
Throughput Material: Fuel Oil - Distillate (aka Diesel)
Year: 2011

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: -89.051277 / 42.9757699
DNR Contact: Lisa Pongnon
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: lisa.pongnon@calpine.com
Permit No: 113308030-P10
Permit Type: FOP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P03
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 02
Process Nm: BACKUP - FUEL OIL
Throughput Amt: 0
Throughput Unit: E3 GAL
Throughput Material: Fuel Oil - Distillate (aka Diesel)
Year: 2011

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: -89.051277 / 42.9757699
DNR Contact: Lisa Pongnon
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: lisa.pongnon@calpine.com
Permit No: 113308030-P10
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P02
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

RT Exemption Approved: Not reported
 Permit Revocation ROP: Not reported
 Permit Revocation Other: Not reported
 Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
 Process Id: 02
 Process Nm: BACKUP - FUEL OIL
 Throughput Amt: 0
 Throughput Unit: E3 GAL
 Throughput Material: Fuel Oil - Distillate (aka Diesel)
 Year: 2011

Facility ID: 113308030
 SIC Code: 4911
 NAICS Code: 22111
 Region: Not reported
 Easting (km): Not reported
 Northing (km): Not reported
 UTM Zone: Not reported
 District Abbreviation: Not reported
 Latest Year Data: Not reported
 UTM91 X Coordinate: Not reported
 UTM91 Y Coordinate: Not reported
 WTM91 X Coordinate: Not reported
 WTM91 Y Coordinate: Not reported
 Lat/Long: -89.051277 / 42.9757699
 DNR Contact: Lisa Pongnon
 Telephone: Not reported
 Contact Address: Not reported
 Contact City: Not reported
 Contact Zip: Not reported
 Contact Email: lisa.pongnon@calpine.com
 Permit No: 113308030-P10
 Permit Type: FOP
 APP Complete Deadline: Not reported
 Expiration Date: Not reported
 Material Code: Not reported
 2007 Tons: Not reported
 Device Id: P01
 Flag Permit File: Not reported
 RCO First Name: Not reported
 RCO Last Name: Not reported
 Permit Action: Not reported
 Permit Status: Not reported
 Permit Issued: Not reported
 Exemption Approved: Not reported
 RT Exemption Approved: Not reported
 Permit Revocation ROP: Not reported
 Permit Revocation Other: Not reported
 Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
 Process Id: 01
 Process Nm: NATURAL GAS
 Throughput Amt: 972
 Throughput Unit: MCMF
 Throughput Material: Natural Gas
 Year: 2011

Facility ID: 113308030

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: -89.051277 / 42.9757699
DNR Contact: Lisa Pongnon
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: lisa.pongnon@calpine.com
Permit No: 113308030-P10
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P03
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 520
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2011

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Lat/Long: -89.051277 / 42.9757699
DNR Contact: Lisa Pongnon
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: lisa.pongnon@calpine.com
Permit No: 113308030-P10
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P02
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 505
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2011

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: 42.9765159 / -89.048758
DNR Contact: AIDA GULOY
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Aida.Guloy@calpine.com
Permit No: 113308030-P02
Permit Type: FOP
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

2007 Tons:	Not reported
Device Id:	P01
Flag Permit File:	Not reported
RCO First Name:	Not reported
RCO Last Name:	Not reported
Permit Action:	Not reported
Permit Status:	Not reported
Permit Issued:	Not reported
Exemption Approved:	Not reported
RT Exemption Approved:	Not reported
Permit Revocation ROP:	Not reported
Permit Revocation Other:	Not reported
Device Desc:	COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id:	01
Process Nm:	NATURAL GAS
Throughput Amt:	687.149996
Throughput Unit:	MMCF
Throughput Material:	Natural Gas
Year:	2010
Facility ID:	113308030
SIC Code:	4911
NAICS Code:	22111
Region:	Not reported
Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported
District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	42.9765159 / -89.048758
DNR Contact:	AIDA GULOY
Telephone:	Not reported
Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Email:	Aida.Guloy@calpine.com
Permit No:	98-RV150R1-OP
Permit Type:	Con-OP
APP Complete Deadline:	Not reported
Expiration Date:	Not reported
Material Code:	Not reported
2007 Tons:	Not reported
Device Id:	P02
Flag Permit File:	Not reported
RCO First Name:	Not reported
RCO Last Name:	Not reported
Permit Action:	Not reported
Permit Status:	Not reported
Permit Issued:	Not reported
Exemption Approved:	Not reported
RT Exemption Approved:	Not reported
Permit Revocation ROP:	Not reported
Permit Revocation Other:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 706.899996
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2010

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: 42.9765159 / -89.048758
DNR Contact: AIDA GULOY
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Aida.Guloy@calpine.com
Permit No: delete
Permit Type: Unknown
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P01
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 687.149996
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2010

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported
District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	42.9765159 / -89.048758
DNR Contact:	AIDA GULOY
Telephone:	Not reported
Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Email:	Aida.Guloy@calpine.com
Permit No:	113308030-P02
Permit Type:	FOP
APP Complete Deadline:	Not reported
Expiration Date:	Not reported
Material Code:	Not reported
2007 Tons:	Not reported
Device Id:	P03
Flag Permit File:	Not reported
RCO First Name:	Not reported
RCO Last Name:	Not reported
Permit Action:	Not reported
Permit Status:	Not reported
Permit Issued:	Not reported
Exemption Approved:	Not reported
RT Exemption Approved:	Not reported
Permit Revocation ROP:	Not reported
Permit Revocation Other:	Not reported
Device Desc:	COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id:	01
Process Nm:	NATURAL GAS
Throughput Amt:	356
Throughput Unit:	MMCF
Throughput Material:	Natural Gas
Year:	2010
Facility ID:	113308030
SIC Code:	4911
NAICS Code:	22111
Region:	Not reported
Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported
District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	42.9765159 / -89.048758
DNR Contact:	AIDA GULOY
Telephone:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Email:	Aida.Guloy@calpine.com
Permit No:	113308030-P10
Permit Type:	FOP
APP Complete Deadline:	Not reported
Expiration Date:	Not reported
Material Code:	Not reported
2007 Tons:	Not reported
Device Id:	P03
Flag Permit File:	Not reported
RCO First Name:	Not reported
RCO Last Name:	Not reported
Permit Action:	Not reported
Permit Status:	Not reported
Permit Issued:	Not reported
Exemption Approved:	Not reported
RT Exemption Approved:	Not reported
Permit Revocation ROP:	Not reported
Permit Revocation Other:	Not reported
Device Desc:	COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id:	01
Process Nm:	NATURAL GAS
Throughput Amt:	356
Throughput Unit:	MMCF
Throughput Material:	Natural Gas
Year:	2010
Facility ID:	113308030
SIC Code:	4911
NAICS Code:	22111
Region:	Not reported
Easting (km):	Not reported
Northing (km):	Not reported
UTM Zone:	Not reported
District Abbreviation:	Not reported
Latest Year Data:	Not reported
UTM91 X Coordinate:	Not reported
UTM91 Y Coordinate:	Not reported
WTM91 X Coordinate:	Not reported
WTM91 Y Coordinate:	Not reported
Lat/Long:	-89.051280 / 42.9757699
DNR Contact:	AIDA GULOY
Telephone:	Not reported
Contact Address:	Not reported
Contact City:	Not reported
Contact Zip:	Not reported
Contact Email:	Aida.Guloy@calpine.com
Permit No:	delete
Permit Type:	Unknown
APP Complete Deadline:	Not reported
Expiration Date:	Not reported
Material Code:	Not reported
2007 Tons:	Not reported
Device Id:	P03
Flag Permit File:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS
Throughput Amt: 910.090000
Throughput Unit: MMCF
Throughput Material: Natural Gas
Year: 2009

Facility ID: 113308030
SIC Code: 4911
NAICS Code: 22111
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: -89.051280 / 42.9757699
DNR Contact: AIDA GULOY
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Aida.Guloy@calpine.com
Permit No: delete
Permit Type: Unknown
APP Complete Deadline: Not reported
Expiration Date: Not reported
Material Code: Not reported
2007 Tons: Not reported
Device Id: P01
Flag Permit File: Not reported
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Not reported
Permit Status: Not reported
Permit Issued: Not reported
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: COMBUSTION TURBINE, 175 MW combustion turbines/electric generator
Process Id: 01
Process Nm: NATURAL GAS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

S123303049

Throughput Amt: 502.550000
Throughput Unit: MCF
Throughput Material: Natural Gas
Year: 2009

Facility ID: 113308030
SIC Code: 4911, electric services
NAICS Code: 221112, fossil fuel electric power generation
Region: Not reported
Easting (km): Not reported
Northing (km): Not reported
UTM Zone: Not reported
District Abbreviation: Not reported
Latest Year Data: Not reported
UTM91 X Coordinate: Not reported
UTM91 Y Coordinate: Not reported
WTM91 X Coordinate: Not reported
WTM91 Y Coordinate: Not reported
Lat/Long: 42.98967 / -89.03607
DNR Contact: Not reported
Telephone: Not reported
Contact Address: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Email: Not reported
Permit No: 98-RV-150
Permit Type: Construction
APP Complete Deadline: Not reported
Expiration Date: 2002-01-25 00:00:00
Material Code: Not reported
2007 Tons: Not reported
Device Id: Not reported
Flag Permit File: PERMIT FILE
RCO First Name: Not reported
RCO Last Name: Not reported
Permit Action: Original
Permit Status: Inactive
Permit Issued: 1999-01-25 00:00:00
Exemption Approved: Not reported
RT Exemption Approved: Not reported
Permit Revocation ROP: Not reported
Permit Revocation Other: Not reported
Device Desc: Not reported
Process Id: Not reported
Process Nm: Not reported
Throughput Amt: Not reported
Throughput Unit: Not reported
Throughput Material: Not reported
Year: Not reported

[Click this hyperlink](#) while viewing on your computer to access 75 additional WI AIRS: record(s) in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A3 **ROCKGEN ENERGY CENTER**
Target **2346 CLEARVIEW RD**
Property **CAMBRIDGE, WI 53523**

AST **A100168417**
 N/A

Site 3 of 3 in cluster A

Actual:
938 ft.

AST:
License: Storage Tank Registration
License Type: Registration
License Number: 437355
Expiration Date: Not reported
Licensee: Calpine
Facility Reference Number: 197364|197131
Fire Dept ID: 1312
Federally Regulated: No
Municipality Name: Village of Cambridge
Tank ID: 28337
Tank Reference Number: 756129|
Equipment Wang ID: Not reported
Tank Type: Aboveground Storage Tank
Tank Status: In Use
Tank Contents: Fuel Oil
Capacity: 1125000.00
Install Date: 2/1/2001 12:00:00 AM
Construction Material: Bare Steel
Marketer: N
Tank Occupancy: Utility
Corrosion Protection Type: Not reported
Overfill Protection Type: Site Gauge
Leak Detection: Interstitial Monitor
Leak Test Method: Not reported
Spill Protection: Installed
Wall Size: Double
Containment Sump Installed: N
Dispenser Sump Installed: N
Overfill Protection: Installed
Date of Lining: Not reported
Lining Inspection Date: Not reported
CAS Number: Not reported
Pipe Type: Piping (Storage Tank)
Pipe Status: In Use
Pipe Aboveground Piping: Y
Pipe Underground Piping: N
Pipe Construction Material: Bare Steel
Pipe Wall Type: Not reported
Pipe UST Manifolder: N
Pipe Related Tank ID: 163122
Pipe Catastrophic Leak Detection: Not reported
Pipe System Type: Not reported
Pipe Flex Connector: N
Pipe Leak Test Method: Not reported
Pipe Leak Detection: Not reported
Pipe Corrosion Protection: Not reported
Latest Test Name: Not reported
Latest Test Date: Not reported
Latest Test Expiration Date: Not reported

Detail As of 12/2016:
Tank Status Date: Not reported
Site Municipality: V

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROCKGEN ENERGY CENTER (Continued)

A100168417

Land Owner Type: Private
Town Customer ID: 957459
Owner Name: CALPINE
Owner Address: 2346 CLEARVIEW RD
Owner Address 2: Not reported
Owner City: CAMBRIDGE
Owner State: WI
Owner Zip: 53523
Building Name: ROCKGEN ENERGY CENTER
Building Address: 2436 CLEARVIEW RD
Building City: CAMBRIDGE
Building Zip: 53523

4
NE
< 1/8
0.056 mi.
297 ft.

T & T STONE CO INC
450 KOSHKONONG RD
CAMBRIDGE, WI 53523

SHWIMS S108158122
N/A

Relative:
Lower
Actual:
930 ft.

SHWIMS:
FID: 113268870
Status: OPERATING
Region: SOUTH CENTRAL

5
North
1/4-1/2
0.318 mi.
1681 ft.

REINER FARM PROPERTY
2478 CLEARVIEW RD
CAMBRIDGE, WI

LUST S104034905
N/A

Relative:
Lower
Actual:
919 ft.

LUST:
Region Name: STH CNTRL
Facility ID: NONE
Status: CLOSED
Start Date: 02/15/1999
End Date: 07/19/1999
Last Action: 07/19/1999
Site Id: 7254300
Detail Seq No: 225553
Activity Type: LUST
Act Code: 340
Activity Name: REINER FARM PROPERTY
Activity Number: 0313225553
Activity Display Number: 03-13-225553
Activity Detail Address: Not reported
Activity Comments: Not reported
Jurisdiction: DNR RR
Owner Name: Not reported
Owner Addr: Not reported
Owner City,St,Zip: Not reported
Dept Of Commerce Number: NONE
Comm Occurrence Id: NONE
EPA Cerclis Id: Not reported
Risk Code: LOW
Acres: UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REINER FARM PROPERTY (Continued)

S104034905

Acres 100: No
EPA NPL Site?: No
Dept Of Commerce Tracking: No
PECFA Funds Eligible?: No
Above Ground Storage Tank?: No
Drycleaner?: No
Co-contamination?: No
Public Land Survey System Desc: NW 1/4 of the SW 1/4 of Sec 14, T06N, R12E
Geo Located: Yes
DNR GIS Registry View Map Layers: No

Actions:

Action Date: 04/16/1999 Action Code: 33
Action Name: Tank Closure Environmental Site Assessment Rpt Received
Action Desc: Date that the DNR received an Environmental Site Assessment of a tank system (above-ground or underground) for tank closure or change in services which usually includes sample results.

Action Comments: Not reported

Action Date: 02/15/1999 Action Code: 1
Action Name: Notification
Action Desc: Date the DNR is notified of the discovery of the contamination.
Action Comments: Not reported

Action Date: 07/19/1999 Action Code: 83
Action Name: Close-out Under NR708.09
Action Desc: No Further Action required. RP not required to conduct NR716 investigation. Not closed out under NR726.
Action Comments: Not reported

Action Date: 07/19/1999 Action Code: 11
Action Name: Activity Closed
Action Desc: Date the Closure Letter or No Further Action letter is sent.
Action Comments: Not reported

Impact Number: 225556
Impact Code: 05
Impact Comments: Soil Contamination
Impact Potential: Not reported

Contacts:

Role Desc: Project Manager
Contact Name: WENDELL WOJNER
Contact Address: 3911 FISH HATCHERY RD
Contact Addr2: Not reported
Contact City,St,Zip: FITCHBURG
Contact Country: Not reported
Company Address: FITCHBURG,

Role Desc: Responsible Party
Contact Name: PERSONAL INFORMATION WITHHELD
Contact Address: 2490 CLEARVIEW RD
Contact Addr2: Not reported
Contact City,St,Zip: CAMBRIDGE, WI 53711
Contact Country: UNITED STATES
Company Address: CAMBRIDGE, WI 53711

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REINER FARM PROPERTY (Continued)

S104034905

Role Desc: DNR File Contact
Contact Name: WENDY WEIHEMULLER
Contact Address: 3911 FISH HATCHERY ROAD
Contact Addr2: Not reported
Contact City,St,Zip: FITCHBURG, WI 53711
Contact Country: UNITED STATES
Company Address: FITCHBURG, WI 53711

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: N/A
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: N/A
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMs by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018	Source: EPA
Date Data Arrived at EDR: 12/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018	Source: Department of the Navy
Date Data Arrived at EDR: 10/25/2018	Telephone: 843-820-7326
Date Made Active in Reports: 12/07/2018	Last EDR Contact: 02/07/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/27/2019
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 02/04/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 06/10/2019
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 02/04/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 06/10/2019
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 02/04/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 28

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ERP: Environmental Repair Program Database

Environmental Repair Program sites are sites other than LUST's that have contaminated soil and/or groundwater. Often, these are old historic releases to the environment.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 02/21/2019
Number of Days to Update: 55

Source: Department of Natural Resources
Telephone: 608-261-6422
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SHWS: Hazard Ranking List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 11/30/1994
Date Data Arrived at EDR: 02/10/1995
Date Made Active in Reports: 03/01/1995
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: 608-266-2632
Last EDR Contact: 12/20/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: No Update Planned

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Licensed Landfills

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 02/25/2019
Number of Days to Update: 53

Source: Department of Natural Resources
Telephone: 608-267-7557
Last EDR Contact: 12/20/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Semi-Annually

WDS: Registry of Waste Disposal Sites

The registry was created by the DNR to serve as a comprehensive listing of all sites where solid or hazardous wastes have been or may have been deposited.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 10/03/2013
Date Made Active in Reports: 11/15/2013
Number of Days to Update: 43

Source: Department of Natural Resources
Telephone: 608-266-2632
Last EDR Contact: 12/20/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SHWIMS: Solid & Hazardous Waste Information Management System

Information on sites, and facilities operating at sites, that are regulated by the Waste Management program

Date of Government Version: 11/21/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/26/2018	Telephone: 608-266-2414
Date Made Active in Reports: 02/25/2019	Last EDR Contact: 12/26/2018
Number of Days to Update: 61	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tank Listing

A listing of leaking aboveground storage tank sites.

Date of Government Version: 11/01/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/28/2018	Telephone: 608-261-6422
Date Made Active in Reports: 02/21/2019	Last EDR Contact: 12/28/2018
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Varies

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/01/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/28/2018	Telephone: 608-261-6422
Date Made Active in Reports: 02/21/2019	Last EDR Contact: 12/28/2018
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-8677
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/05/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6271
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3372
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 01/08/2019
Number of Days to Update: 136	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Varies

UST: Registered Underground Storage Tanks
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/10/2018	Source: Department of Agriculture, Trade & Consumer Protection
Date Data Arrived at EDR: 12/12/2018	Telephone: 608-266-7874
Date Made Active in Reports: 02/20/2019	Last EDR Contact: 12/12/2018
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/25/2019
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Tanks Database

Aboveground storage tank site locations.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 02/20/2019
Number of Days to Update: 70

Source: Department of Agriculture, Trade & Consumer Protection
Telephone: 608-266-7874
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3368
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 03/07/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

CRS: Closed Remediation Sites

A Closed Remediation Site is parcel of land at which the groundwater has become contaminated and which is affected by a particular type of legal restriction. Specifically, certain steps have been taken to stabilize/remediate the contamination, and the state is satisfied that no further efforts are necessary provided that the property is not used for certain purposes.

Date of Government Version: 01/28/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 01/31/2019	Telephone: 608-267-0554
Date Made Active in Reports: 02/25/2019	Last EDR Contact: 02/21/2019
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Semi-Annually

AUL: Deed Restriction at Closeout Sites

Date a deed restriction is recorded at the Register of Deeds office for a property. Extent of soil contamination is known but impracticable to remove now or an engineering control is required to be maintained or NR720 industrial stds are applied. Restricts property use or requires future actions.

Date of Government Version: 11/01/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/28/2018	Telephone: 608-261-6422
Date Made Active in Reports: 02/21/2019	Last EDR Contact: 12/28/2018
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Party Liability Exemption Sites

The Voluntary Party Liability Exemption is an elective environmental cleanup program. Interested persons who meet the definition of "voluntary party" are eligible to apply. A "voluntary party" is any person who submits an application and pays all the necessary fees.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 02/25/2019
Number of Days to Update: 59

Source: Department of Natural Resources
Telephone: 608-261-6422
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BEAP: Brownfields Environmental Assessment Program

The Brownfields Environmental Assessment Program (BEAP) was a federal program that assisted municipalities with Environmental Site Assessments (ESA's) for tax delinquent or bankrupt properties, or properties a local government acquired for redevelopment. Using federal dollars, site assessments were conducted by Department of Natural Resources (DNR) staff to determine if the properties were contaminated.

Date of Government Version: 12/31/2000
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 06/29/2001
Number of Days to Update: 31

Source: Department of Natural Resources
Telephone: 608-266-1618
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: No Update Planned

BROWNFIELDS: Brownfields Site Locations Listing

A listing of brownfields sites included in the BRRTS database. Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 02/21/2019
Number of Days to Update: 55

Source: Department of Natural Resources
Telephone: 608-266-3084
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Center Listing

A listing of recycling center locations.

Date of Government Version: 01/08/2019
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 02/27/2019
Number of Days to Update: 48

Source: Solid & Hazardous Waste Education center
Telephone: 608-262-0936
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations in the state.

Date of Government Version: 06/07/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 39

Source: Department of Justice
Telephone: 920-832-2751
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

Environmental liens listing.

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Department of Natural Resources
Telephone: 608-267-6713
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS: Spills Database

A discharge of a hazardous substance that may adversely impact, or threaten to adversely impact public health, welfare or the environment. Spills are usually cleaned up quickly.

Date of Government Version: 11/01/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/28/2018	Telephone: 608-261-6422
Date Made Active in Reports: 02/25/2019	Last EDR Contact: 12/28/2018
Number of Days to Update: 59	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Quarterly

AG SPILLS: Agricultural Spill Cases

Spills reported to the Department of Agriculture, Trade & Consumer Protection. There are two types of spills.

Long-term: These are mainly pesticide and fertilizer cases. Some might include other contaminants at the same site. Some might involve wood-treaters - which use pesticides. All of them involve spills of products, but these spills generally result from day to day use (chronic spills) rather than accidental spills (acute). Accidental:

These are the acute spills of pesticides and fertilizers and only involve pesticides and fertilizers. Most of these are cleaned up and closed within 3 to 6 months.

Date of Government Version: 08/31/2018	Source: Department of Agriculture, Trade & Consumer Protection
Date Data Arrived at EDR: 11/08/2018	Telephone: 608-224-5058
Date Made Active in Reports: 11/27/2018	Last EDR Contact: 02/07/2019
Number of Days to Update: 19	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 11/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/31/2003	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/01/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 57	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 312-886-6186
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 12/03/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 02/22/2019
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/11/2019
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/11/2019
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/15/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/27/2019
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 202-566-1917
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 02/04/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 04/08/2019
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2018	Telephone: 202-564-8600
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 01/22/2019
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018	Source: EPA
Date Data Arrived at EDR: 10/04/2018	Telephone: 202-564-6023
Date Made Active in Reports: 11/09/2018	Last EDR Contact: 02/15/2019
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018	Source: EPA
Date Data Arrived at EDR: 10/11/2018	Telephone: 202-566-0500
Date Made Active in Reports: 12/07/2018	Last EDR Contact: 01/11/2019
Number of Days to Update: 57	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 01/07/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 01/22/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 03/07/2019
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 03/05/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 01/25/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/06/2019
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/07/2019
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/22/2019
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/31/2019
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/20/2019
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 02/22/2019
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/28/2018	Telephone: 703-603-8787
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 02/15/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 04/15/2019
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018	Source: EPA
Date Data Arrived at EDR: 12/05/2018	Telephone: (312) 353-2000
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 03/05/2019
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/05/2018	Telephone: 202-564-2280
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 03/05/2019
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/17/2019
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017	Source: Department of Defense
Date Data Arrived at EDR: 06/19/2018	Telephone: 703-704-1564
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/14/2019
Number of Days to Update: 87	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 03/01/2019
Number of Days to Update: 71	Next Scheduled EDR Contact: 06/10/2019
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018	Source: EPA
Date Data Arrived at EDR: 08/22/2018	Telephone: 800-385-6164
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 02/21/2019
Number of Days to Update: 44	Next Scheduled EDR Contact: 06/03/2019
	Data Release Frequency: Quarterly

AIRS: Air Permit Program Listing

A listing of permits issued by the Air Permit Program.

Date of Government Version: 01/02/2019	Source: Department of Natural Resources
Date Data Arrived at EDR: 01/31/2019	Telephone: 608-266-2621
Date Made Active in Reports: 03/07/2019	Last EDR Contact: 01/28/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/29/2019
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 01/31/2019
Number of Days to Update: 65

Source: Department of Natural Resources
Telephone: 608-267-7542
Last EDR Contact: 02/25/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

BRRTS: Bureau of Remediation & Redevelopment Tracking System

BRRTS is a tracking system of contaminated sites. It holds key information for finding out more about a site or an activity. Activity types included are: Abandoned Container - An abandoned container with potentially hazardous contents recovered from a site. No discharge to the environment occurs. If the container did release a hazardous substance, a spill would be associated with the site. Superfund - is a federal program created by Congress in 1980 to finance cleanup of the nation's worst hazardous waste sites. VPLE - Voluntary Property Liability Exemptions apply to sites in which a property owner conducts an environmental investigation and cleanup of an entire property and then receives limits on their future liability. General Property - Environmental actions which apply to the property as a whole, rather than a specific source of contamination, such as the LUST or environmental repair site. Examples would be off-site letters, municipal liability clarification letters, lease letters, voluntary party liability exemption actions, and general liability clarification letters.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 02/21/2019
Number of Days to Update: 55

Source: Department of Natural Resources
Telephone: 608-261-6422
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal combustion monofills.

Date of Government Version: 06/20/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 08/16/2018
Number of Days to Update: 51

Source: Department of Natural Resources
Telephone: 608-267-3538
Last EDR Contact: 12/20/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

DRYCLEANERS: Five Star Recognition Program Sites

Drycleaning facilities enrolled in the Five Star Recognition Program. The primary focus of the Five Star program is to encourage reductions in the use and emissions of perchloroethylene (perc), a common but potentially hazardous drycleaning solvent. Participating cleaners pursue recycling opportunities, spill prevention strategies, more efficient solvent use, and more wet cleaning to reduce their perc consumption.

Date of Government Version: 04/02/2012
Date Data Arrived at EDR: 04/05/2012
Date Made Active in Reports: 04/24/2012
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: 608-267-3125
Last EDR Contact: 02/25/2019
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/21/2018
Date Made Active in Reports: 01/31/2019
Number of Days to Update: 71

Source: Department of Natural Resources
Telephone: 608-266-6965
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

Information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/09/2019
Date Made Active in Reports: 02/25/2019
Number of Days to Update: 47

Source: Department of Agriculture, Trade & Consumer Protection
Telephone: 608-266-0956
Last EDR Contact: 12/14/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

Financial Assurance 3: Financial Assurance Information Listing

Financial assurance information listing for hazardous waste facilities.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/21/2018
Date Made Active in Reports: 01/31/2019
Number of Days to Update: 71

Source: Department of Natural Resources
Telephone: 608-266-1486
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

LEAD: Lead Inspection Data

Lead inspection information.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 40

Source: Department of Health & Family Services
Telephone: 608-267-0473
Last EDR Contact: 01/02/2019
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Annually

LEAD CERT: Lead Safe Housing Registry

A listing of Wisconsin properties that have been or currently are in our Lead-Free/Lead-Safe Property Registry.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/28/2018
Number of Days to Update: 22

Source: Department of Environmental & Occupation
Telephone: 608-267-0928
Last EDR Contact: 02/26/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/07/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

NPDES: NPDES Permit Listing

A listing of stormwater permit industrial facilities.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 01/31/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: 608-264-8971
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/01/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 38

Source: Department of Natural Resources
Telephone: 608-242-3225
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WRRSER: Wisconsin Remedial Response Site Evaluation Report

The WRRSER provides information about location, status, and priority of sites or facilities in the state which are known to cause or have a high potential to cause environmental pollution.

Date of Government Version: 10/01/1995
Date Data Arrived at EDR: 01/02/1996
Date Made Active in Reports: 02/01/1996
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 608-261-6422
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: No Update Planned

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Wisconsin.

Date of Government Version: N/A	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Wisconsin.

Date of Government Version: N/A	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/27/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 179	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

COUNTY RECORDS

MILWAUKEE COUNTY:

BROWNFIELDS 2: List of Tax Delinquent Brownfields

Current owners of these sites have not paid their property taxes for one or more years. Based on at least an initial screening of these properties (including a historical land use check and a site visit), the City has decided not to foreclose because of potential environmental contamination. However, the City (using State Statute 75.106) may begin foreclosure, and then assign the foreclosure judgment to a new party that will remediate and redevelop the site. Testing may demonstrate that the site is clean or needs limited environmental clean-up.

Date of Government Version: 07/11/2018	Source: Redevelopment Authority of the City of Milwaukee
Date Data Arrived at EDR: 07/31/2018	Telephone: 414-286-5642
Date Made Active in Reports: 08/28/2018	Last EDR Contact: 02/01/2019
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/13/2019
	Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/12/2019	Telephone: 860-424-3375
Date Made Active in Reports: 03/04/2019	Last EDR Contact: 02/12/2019
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/27/2019
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/19/2019
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Directory

Source: Department of Health & Family Services

Telephone: 608-266-9314

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ROCKGEN ENERGY LLC
2346 CLEARVIEW ROAD
CAMBRIDGE, WI 53523

TARGET PROPERTY COORDINATES

Latitude (North):	42.974519 - 42° 58' 28.27"
Longitude (West):	89.050129 - 89° 3' 0.46"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	332821.0
UTM Y (Meters):	4759809.5
Elevation:	938 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5952099 ROCKDALE, WI
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

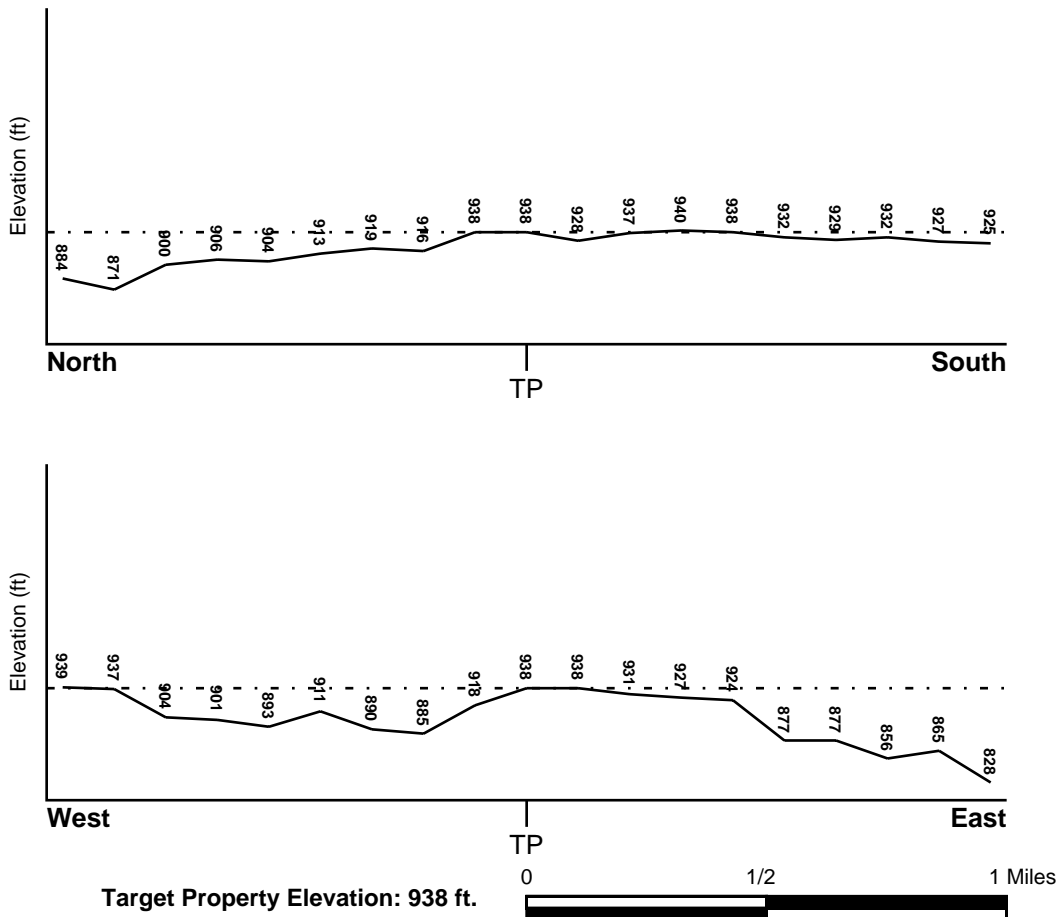
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
55055C0260F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
55025C0655H	FEMA FIRM Flood data
55055C0257F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
B6	1/2 - 1 Mile ESE	Not Reported
1G	1/2 - 1 Mile ESE	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

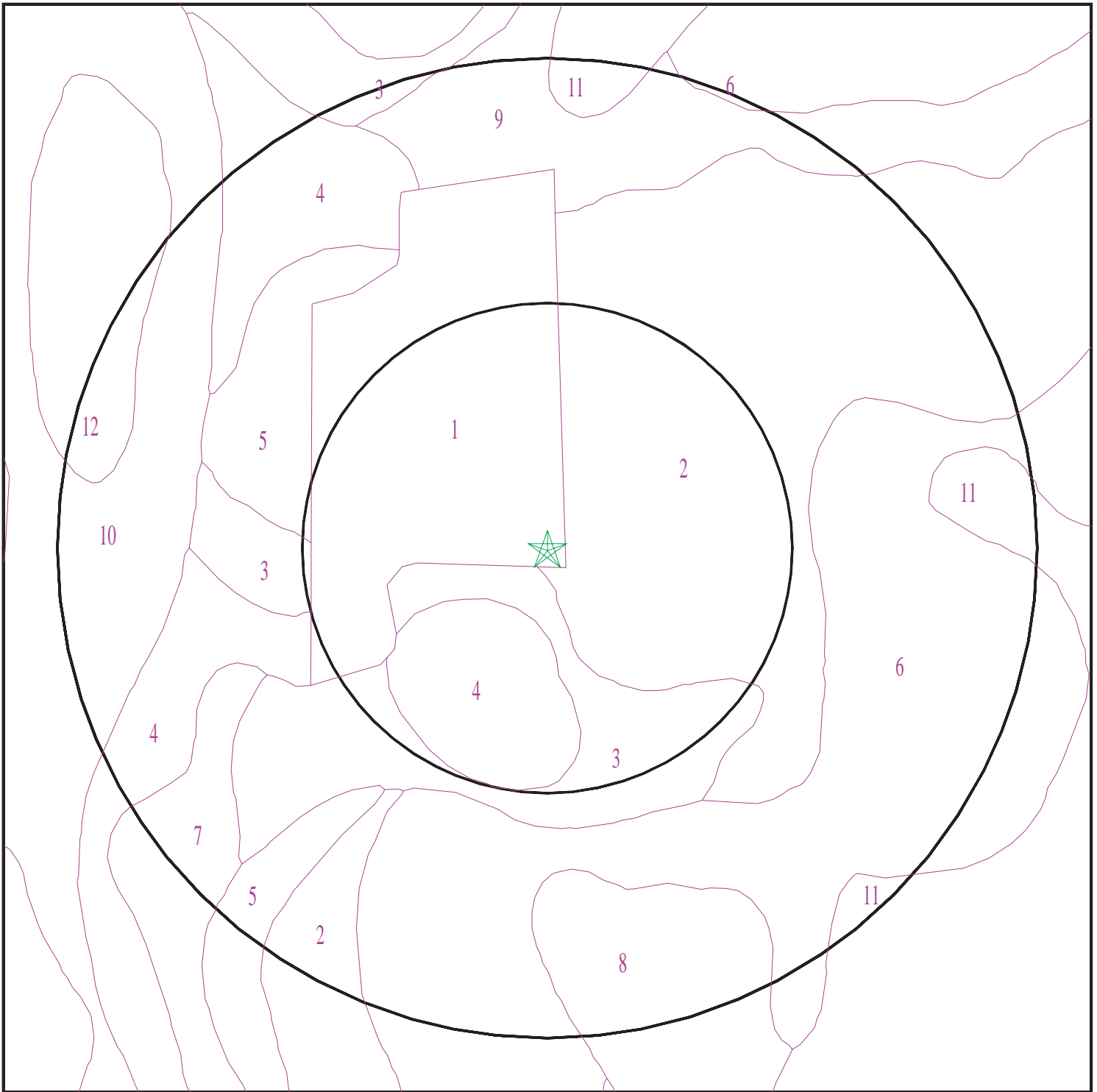
Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

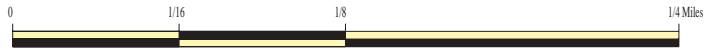
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5585156.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Rockgen Energy LLC
ADDRESS: 2346 Clearview Road
Cambridge WI 53523
LAT/LONG: 42.974519 / 89.050129

CLIENT: Zephyr Environmental Corp.
CONTACT: Steve Mcvey
INQUIRY #: 5585156.2s
DATE: March 11, 2019 11:00 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Quarry

Soil Surface Texture: bedrock

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	bedrock	Not reported	Not reported	Max: 700 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Rockton

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Not reported	Not reported	Max: 141 Min: 14	Max: Min:
2	18 inches	31 inches	clay loam	Not reported	Not reported	Max: 141 Min: 14	Max: Min:
3	31 inches	35 inches	weathered bedrock	Not reported	Not reported	Max: 141 Min: 14	Max: Min:

Soil Map ID: 3

Soil Component Name: Rockton

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Not reported	Not reported	Max: 141 Min: 14	Max: Min:
2	18 inches	31 inches	clay loam	Not reported	Not reported	Max: 141 Min: 14	Max: Min:
3	31 inches	35 inches	weathered bedrock	Not reported	Not reported	Max: 141 Min: 14	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Radford

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	22 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 Min: 6.6
2	22 inches	29 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 Min: 6.6
3	29 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 Min: 6.6

Soil Map ID: 5

Soil Component Name: Edmund

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 41 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 42 Min: 0	Max: Min:
2	7 inches	14 inches	silty clay loam	Not reported	Not reported	Max: 42 Min: 0	Max: Min:
3	14 inches	18 inches	silty clay	Not reported	Not reported	Max: 42 Min: 0	Max: Min:
4	18 inches	22 inches	weathered bedrock	Not reported	Not reported	Max: 42 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: Plano

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 42 Min: 4	Max: 7.3 Min: 5.6
2	11 inches	40 inches	silty clay loam	Not reported	Not reported	Max: 42 Min: 4	Max: 7.3 Min: 5.6
3	40 inches	59 inches	sandy loam	Not reported	Not reported	Max: 42 Min: 4	Max: 7.3 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 7

Soil Component Name: Warsaw

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	silt loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.9
2	12 inches	29 inches	sandy clay loam	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.9
3	29 inches	59 inches	stratified coarse sand to sand	Not reported	Not reported	Max: 141 Min: 141	Max: 8.4 Min: 7.9

Soil Map ID: 8

Soil Component Name: Sable

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6
2	18 inches	25 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6
3	25 inches	42 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6
4	42 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 6.6

Soil Map ID: 9

Soil Component Name: Ringwood

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	11 inches	22 inches	silty clay loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	22 inches	35 inches	sandy clay loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4
4	35 inches	59 inches	sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 10

Soil Component Name: Wacousta

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.4
2	11 inches	20 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.4
3	20 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.4

Soil Map ID: 11

Soil Component Name: Plano

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 42 Min: 4	Max: 7.3 Min: 5.6
2	11 inches	40 inches	silty clay loam	Not reported	Not reported	Max: 42 Min: 4	Max: 7.3 Min: 5.6
3	40 inches	59 inches	sandy loam	Not reported	Not reported	Max: 42 Min: 4	Max: 7.3 Min: 5.6

Soil Map ID: 12

Soil Component Name: Elvers

Soil Surface Texture: silt loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	silt loam	Not reported	Not reported	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	35 inches	59 inches	muck	Not reported	Not reported	Max: 42 Min: 14	Max: 7.8 Min: 5.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A4	USGS40001308960	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

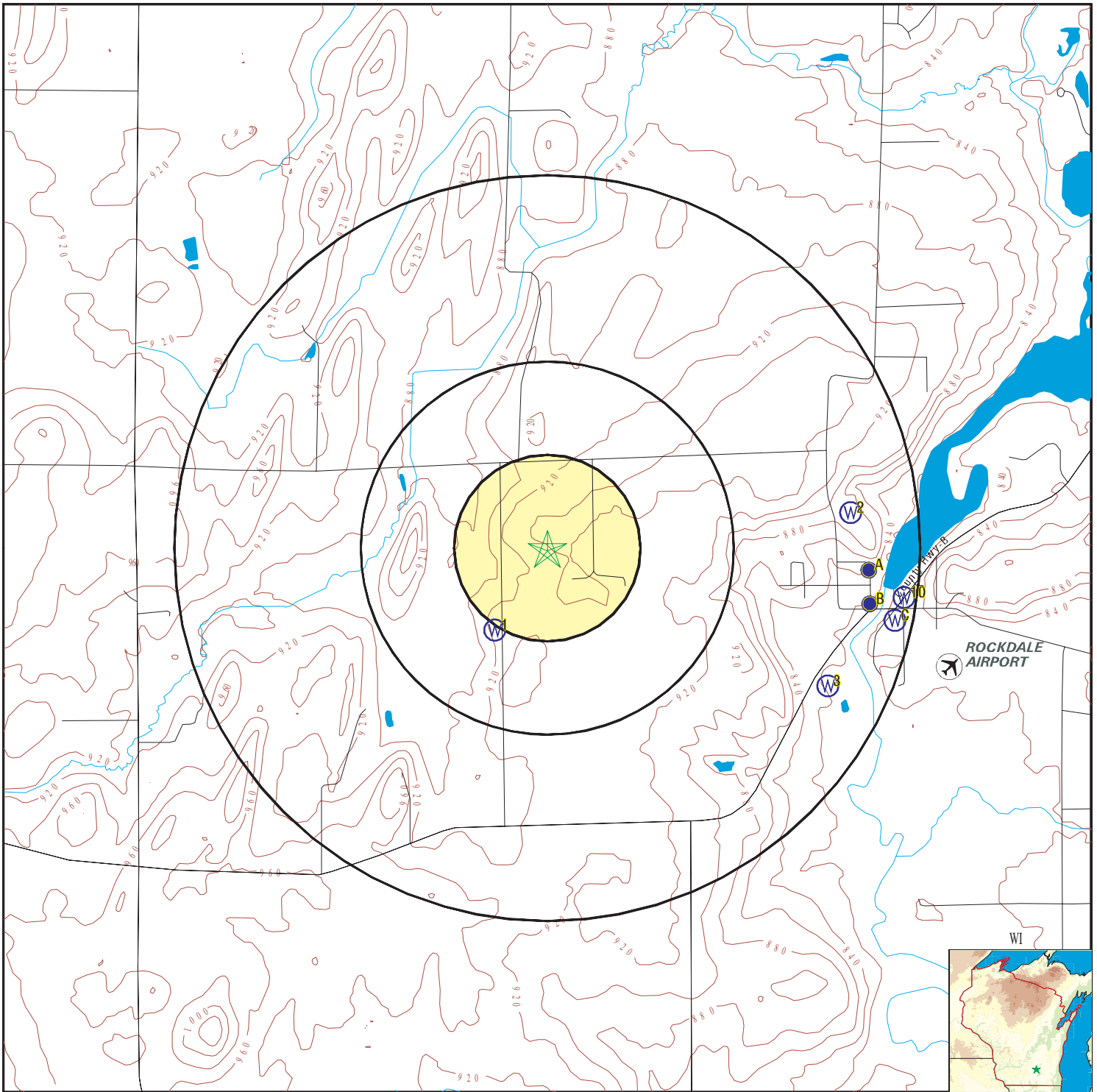
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	WI5000000391344	1/4 - 1/2 Mile SSW
2	WI5000000215936	1/2 - 1 Mile East
3	WI5000000319973	1/2 - 1 Mile ESE
B5	WI5000000391418	1/2 - 1 Mile East
A7	WI5000000353251	1/2 - 1 Mile East
C8	WI5000000382897	1/2 - 1 Mile ESE
C9	WI5000000131600	1/2 - 1 Mile ESE
10	WI5000000368259	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 5585156.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: Rockgen Energy LLC
 ADDRESS: 2346 Clearview Road
 Cambridge WI 53523
 LAT/LONG: 42.974519 / 89.050129

CLIENT: Zephyr Environmental Corp.
 CONTACT: Steve Mcvey
 INQUIRY #: 5585156.2s
 DATE: March 11, 2019 11:00 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SSW
1/4 - 1/2 Mile
Lower

WI WELLS WI5000000391344

WI Well #:	YR154	Date Completed:	20160815
DNR Received:	20160819	Construction Name:	SAM'S WELL DRILLING INC
Constructor ID:	370	Well Status:	1
Original Year:	Not Reported	Reason for Replacement:	Not Reported
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	P
Facility Type:	HOME	Pump Level Below Surface:	60
Pump Amt (gal):	25	Pump Time (hrs):	1
Well Grade (in):	24	Well Developed:	Y
Well Capped:	Y	Well Depth:	141

2
East
1/2 - 1 Mile
Lower

WI WELLS WI5000000215936

WI Well #:	BN532	Date Completed:	19740816
DNR Received:	18991230	Construction Name:	FOUR LAKES WELL DRILLING
Constructor ID:	Not Reported	Well Status:	1
Original Year:	Not Reported	Reason for Replacement:	Not Reported
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	N
Facility Type:	PARK	Pump Level Below Surface:	76
Pump Amt (gal):	40	Pump Time (hrs):	4
Well Grade (in):	10	Well Developed:	N
Well Capped:	Y	Well Depth:	235

3
ESE
1/2 - 1 Mile
Lower

WI WELLS WI5000000319973

WI Well #:	WL469	Date Completed:	20071211
DNR Received:	20080109	Construction Name:	SAM'S WELL DRILLING INC
Constructor ID:	370	Well Status:	1
Original Year:	Not Reported	Reason for Replacement:	Not Reported
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	PZ
Facility Type:	WASTEWATER TREATMENT PLANT		
Pump Level Below Surface:	40	Pump Amt (gal):	20
Pump Time (hrs):	1	Well Grade (in):	36
Well Developed:	Y	Well Capped:	Y
Well Depth:	148		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A4
East
1/2 - 1 Mile
Lower

FED USGS USGS40001308960

Organization ID:	USGS-WI	Organization Name:	USGS Wisconsin Water Science Center
Monitor Location:	DN-06/12E/23-0509	Type:	Well
Description:	Not Reported	HUC:	07090001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Cambrian-Ordovician aquifer system	Aquifer Type:	Not Reported
Formation Type:	Sinnipee Group	Well Depth:	64
Construction Date:	19550816	Well Hole Depth:	64
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1955-08-16
Feet below surface:	28.00	Feet to sea level:	Not Reported
Note:	Not Reported		

B5
East
1/2 - 1 Mile
Lower

WI WELLS WI5000000391418

WI Well #:	YQ711	Date Completed:	20160715
DNR Received:	20160722	Construction Name:	SAM'S WELL DRILLING INC
Constructor ID:	370	Well Status:	2
Original Year:	Not Reported	Reason for Replacement:	NOT UP TO CODE
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	P
Facility Type:	HOME	Pump Level Below Surface:	40
Pump Amt (gal):	20	Pump Time (hrs):	1
Well Grade (in):	24	Well Developed:	Y
Well Capped:	Y	Well Depth:	100

B6
ESE
1/2 - 1 Mile
Lower

AQUIFLOW 45405

Site ID:	150605
Groundwater Flow:	Not Reported
Shallowest Water Table Depth:	8.26
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	Not Reported
Date:	11/04/1997

A7
East
1/2 - 1 Mile
Lower

WI WELLS WI5000000353251

WI Well #:	YG266	Date Completed:	20110928
DNR Received:	20111007	Construction Name:	SAM'S WELL DRILLING INC
Constructor ID:	370	Well Status:	2
Original Year:	Not Reported	Reason for Replacement:	NON-COMPLIAN
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	P
Facility Type:	Not Reported	Pump Level Below Surface:	46

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pump Amt (gal):	20	Pump Time (hrs):	1
Well Grade (in):	18	Well Developed:	Y
Well Capped:	Y	Well Depth:	101

C8
ESE
1/2 - 1 Mile
Lower

WI WELLS WI5000000382897

WI Well #:	YO203	Date Completed:	20150819
DNR Received:	20150821	Construction Name:	SAM'S WELL DRILLING INC
Constructor ID:	370	Well Status:	2
Original Year:	Not Reported	Reason for Replacement:	NON COMPLIANT
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	P
Facility Type:	HOME	Pump Level Below Surface:	50
Pump Amt (gal):	30	Pump Time (hrs):	1
Well Grade (in):	24	Well Developed:	Y
Well Capped:	Y	Well Depth:	81

C9
ESE
1/2 - 1 Mile
Lower

WI WELLS WI5000000131600

WI Well #:	LK452	Date Completed:	19970317
DNR Received:	19970327	Construction Name:	J F WERNER
Constructor ID:	76	Well Status:	2
Original Year:	0	Reason for Replacement:	NEW WELL TO REPLACE CHURC
Previous Well ID:	BN590	New Well ID:	Not Reported
Well Type:	1	Well Category:	N
Facility Type:	CHURCH	Pump Level Below Surface:	20
Pump Amt (gal):	25	Pump Time (hrs):	2
Well Grade (in):	20	Well Developed:	Y
Well Capped:	Y	Well Depth:	103

10
East
1/2 - 1 Mile
Lower

WI WELLS WI5000000368259

WI Well #:	YK203	Date Completed:	20131010
DNR Received:	20131018	Construction Name:	SAM'S WELL DRILLING INC
Constructor ID:	370	Well Status:	2
Original Year:	Not Reported	Reason for Replacement:	OUT OF WATER
Previous Well ID:	Not Reported	New Well ID:	Not Reported
Well Type:	1	Well Category:	N
Facility Type:	HOME	Pump Level Below Surface:	45
Pump Amt (gal):	20	Pump Time (hrs):	1
Well Grade (in):	18	Well Developed:	Y
Well Capped:	Y	Well Depth:	100

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

1G
ESE
1/2 - 1 Mile
Lower

Site ID: 150605
Groundwater Flow: Not Reported
Shallowest Water Table Depth: 8.26
Deepest Water Table Depth: Not Reported
Average Water Table Depth: Not Reported
Date: 11/04/1997

AQUIFLOW 45405

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: WI Radon

Radon Test Results

Num Tests	# 4-10 pCi/L	# > 10 pCi/L	Avg pCi/L	Max pCi/L
22	8	3	4.9	16.8
22	8	3	4.9	16.8

Federal EPA Radon Zone for DANE County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 53523

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.950 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Wisconsin Well Construction Report File

Source: Department of Natural Resources

Telephone: 608-266-0153

In the past, not all latitude/longitudes were accurate. Many were protracted from centroid (center of the quarter sections given in PLSS). The ones that were not accurate were removed from the well database.

OTHER STATE DATABASE INFORMATION

RADON

State Database: WI Radon

Source: Department of Health & Family Services

Telephone: 608-266-1865

Wisconsin Measurement Summary

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX 15.6 INTERVIEW DOCUMENTATION

PHASE I USER QUESTIONNAIRE

Site: RockGen Energy Center

Completed By: Patrick Blanchard

Title: Director EHS

Company: Calpine Corporation

Date Completed 3/14/2019

1. *Why is the Phase I environmental site assessment being performed. (E 1527–13 (6.7))?*

To assess the environmental condition of the property to identify recognized environmental conditions.

2. *What is the type of property transaction taking place, for example, sale, purchase, exchange, etc. (E 1527–13 (4.6))?*

A sale of the property is being evaluated.

3. *Are you aware of any environmental liens against the Property that are filed or recorded under federal, tribal, state or local law (40 CFR 312.25)?*

No

4. *Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law (40 CFR 312.26)?*

No

5. *As the user of this environmental site assessment, do you have any specialized knowledge or experience related to the Property or nearby properties? For example, are you involved in the same line of business as the present or former occupants of the Property or adjoining properties so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312.28)?*

Yes, the Calpine EHS group has been providing compliance oversight since Calpine acquired the property.

6. *Does the lease/sale price being paid for the Property reasonably reflect the fair market price for leasing/purchasing the Property (40 CFR 312.29)? (Indicate "Not applicable" for transactions not involving an acquisition.)*

Yes

7. *If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present at the Property (40 CFR 312.29)? (Indicate "Not applicable" for transactions not involving an acquisition.)*

Not Applicable as there is no known material contamination at the site.

8. *Do you know the past uses of the Property; and if so, what were they (40 CFR 312.30)?*

Past uses include a dairy farm in 1910 and an agricultural land, quarry (~13 acres) on the northern section in 1945. Current use is the peaking power plant constructed in 2000, the inactive quarry, farmland and farm homestead.

9. *Do you know of specific chemicals that once were present at the Property (40 CFR 312.30)?*

The facility is subject to and complies with Section 312 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) – Tier II.

10. *Do you know of any spills or other chemical releases that have taken place at the Property (40 CFR 312.30)?*

Minor oil spill of ~ 10 gallon on gravel on 12/12/2017 was reported to WDNR. OSI was onsite for clean-up efforts. No additional action requested by the Agency. No other spill occurred other than this..

11. *Do you know of any environmental cleanups that have taken place at the Property (40 CFR 312.30)?*

Only the minor oil spill reported in No. 10.

12. *Are you aware of any other commonly known or ascertainable information about the Property that would help the environmental professional to identify conditions indicative of releases or threatened releases (E 1527-13 (6.6))?*

No

13. *As the user of this environmental site assessment, based on your knowledge and experience related to the Property, are there any obvious indicators that point to the presence or likely presence of contamination at the Property (40 CFR 312.31)?*

None

14. *The identification of all parties who will rely on the Phase I report.*

Calpine Corporation and a to be named counterparty

OWNER AND SITE MANAGER INTERVIEW SUMMARY RECORD
Rockgen Power Plant
2346 Clear View Road
Cambridge, WI

Date of Interview: March 14, 2019

Time of Interview: 3:00pm

Type of Interview: Questionnaire

Person Interviewed: Aida Guloy

Employed by: Calpine

Job Title: NA

Job Description: NA

Years with Company: NA

Ownership and Use:

1. *Who is the owner of the Property and how long have they owned it?*

RockGen Energy Center, LLC

2. *Who is the operator on the Property and how long have they operated on the Property?*

Calpine Operating Services Company, Inc (COSCI)

3. *What are the current uses of the Property and the duration of these uses?*

Current use is the peaking power plant constructed in 2000, the inactive quarry, farmland and farm homestead.

4. *What were the past uses of the Property and the duration of these uses?*

Past uses include a dairy farm in 1910 and an agricultural land, quarry (~13 acres) on the northern section in 1945

Describe Operations:

1. *Is the Property registered with the appropriate state agency or have a permit to store, treat or dispose of hazardous waste?*

Yes

2. *Is the Property a generator of hazardous waste and if so, is it stored onsite?*

RockGen Energy Center is a very small quantity generator of hazardous waste.

3. *Are solvents (chlorinated or non-chlorinated) or other hazardous substances, for example pesticides or herbicides, used at the Property?*

No hazardous substances are used in bulk (cleaning supplies and parts cleaners used).
Herbicides are applied by truchem or trugreen or nature scape for weed control

4. *Are petroleum produces stored at the Property, and if so, what type?*

Low sulfur diesel and lubricants

5. *Are you aware of any electrical equipment or components or hydraulic equipment located or formerly located on the Property ever containing PCBs.*

No

6. *Are you aware of any oils containing PCBs being located or formerly located on the Property?*

No

7. *Are you aware of any spills or releases having occurred at the Property, if so where and when?*

Minor oil spill of ~ 10 gallon on gravel on 12/12/2017 was reported to WDNR. OSI was onsite for clean-up efforts. No additional action requested by the Agency. No other spill occurred other than this.

8. *Are you aware of any spills or releases having occurred outside of the Property, if so, where and when?*

No

Corrective Actions or Proceedings:

1. *Are you aware of any environmental cleanup liens against the Property that are filed or recorded under federal, tribal, state or local law?*

No

2. *Are you aware of any Activity and Use Limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the Property and/or have been filed or recorded in a registry under federal, tribal, state or local law?*

No

3. *Are you aware of any pending or ongoing remedial/corrective actions at the Property?*

No

4. *Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on or from the Property?*

No

5. *Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Property?*

No

6. *Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability related to hazardous substances or petroleum products?*

No

Helpful Documents:

1. *Do you know if environmental site assessment reports for the Property exist, and whether copies can and will be provided for off-Property review?*

The Phase I ESA done in 2001 was provided already.

2. *Do you know if environmental compliance audit reports for the Property exist, and whether copies can and will be provided for off-Property review?*

The Agency inspection reports and the 2014 3rd Party Audit report were provided.

3. *Do you know if environmental permits for the Property exist, and whether copies can and will be provided for off-Property review?*

All applicable environmental permits (air, sanitary sewer, and capacity wells) were provided.

4. *Do you know if registrations for underground injection systems for the Property exist, and whether copies can and will be provided for off-Property review?*

No

5. *Do you know if reports regarding the hydrogeologic conditions of the Property and surrounding area exist, and whether copies can and will be provided for off-Property review?*

A Subsurface Exploration and Geotechnical Engineering Analysis report was prepared in March 1999.

6. *Do you know if notices or other correspondence from any government agency relating to past or current violations of environmental law with respect to the Property or relating to environmental liens encumbering the Property exist, and whether copies can and will be provided for off-Property review?*

No

7. *Do you know if geotechnical studies for the Property exist, and whether copies can and will be provided for off-Property review?*

A Subsurface Exploration and Geotechnical Engineering Analysis report was prepared in March 1999.

8. *Do you know if risk assessments for the Property exist, and whether copies can and will be provided for off-Property review?*

I am not aware of a separate risk assessment report for the property.

9. *Do you know if recorded activity and use limitations for the Property exist, and whether copies can and will be provided for off-Property review?*

No

STATE AND LOCAL GOVERNMENT OFFICIALS
2346 Clear View Road
Cambridge, Dane County, WI

Government Entity: Wisconsin Department of Natural Resources

Telephone Number: 608-264-6125

Date Called: Email – March 15, 2019

Time: 11:00 AM

Name: Philip Derge

Title: _____

1. To the best of your knowledge, are you aware of any releases of hazardous substances or petroleum products on or near the target property?

Yes – a spill report from 12/12/2017 has been provided

2. To the best of your knowledge, are there now, or have there ever been in the past, any underground or aboveground storage tanks located on the target property?

No

3. To the best of your knowledge, what is the history of the target property and area?

Unknown

4. Other information:

From: Derge, Philip C - DNR <Philip.Derge@wisconsin.gov>
Sent: Friday, March 15, 2019 10:44 AM
To: Geesin, Jacob
Cc: DNR Records Response
Subject: RE: 19PRR6902: 2346 Clear View Road

Hi Jacob,

In response to your public records request, submitted on March 15, 2019, the department has searched for records pertaining to **2346 Clear View Road, Cambridge, WI** and the following:

- Releases of hazardous substances or petroleum products on or near the property
- Records of above ground or underground storage tanks on the property

The Wisconsin Department of Natural Resources has concluded its search and located records responsive to your request. There is closed spill activity listed in our BRRS database. You can download the file for this site online at the link provided below.

- [04-13-580881 Rockgen Energy Center Spill](#)

No records of above ground or underground storage tanks were located for this property. However, I should note that DNR is typically only involved with USTs/ASTs when some remediation activity takes place. Otherwise, storage tanks are regulated by the Department of Agriculture, Trade and Consumer Protection. You might want to submit a request to DATCP for records regarding USTs/ASTs at the property. Information for doing so can be viewed online [here](#).

The public records request will be closed. Thank you and please let me know if you have any questions.

Sincerely,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Phil Derge

Phone: (608) 264-6125

Philip.Derge@wisconsin.gov

From: jacob.geesin@powereng.com <jacob.geesin@powereng.com>
Sent: Friday, March 15, 2019 9:26 AM
To: Derge, Philip C - DNR <Philip.Derge@wisconsin.gov>
Subject: RE: 19PRR6902: 2346 Clear View Road

Mr. Derge,

Thank you for getting back to me and working on this. I hope to hear from you soon!

Thanks,

Jacob

JACOB GEESIN, G.I.T.
STAFF GEOLOGIST

[512-579-3806](tel:512-579-3806)
[512-740-7043 cell](tel:512-740-7043)

POWER Engineers, Inc.
www.powereng.com

From: Derge, Philip C - DNR <Philip.Derge@wisconsin.gov>
Sent: Friday, March 15, 2019 9:14 AM
To: Geesin, Jacob <jacob.geesin@powereng.com>
Cc: DNR Records Response <DNRRecordsResponse@wisconsin.gov>
Subject: 19PRR6902: 2346 Clear View Road

Jacob Geesin,

I have been assigned to coordinate your public records request for the following:

I am conducting a Phase I Environmental Assessment at the 77.8 acre property located at 2346 Clear View Road, Cambridge WI. I am looking for records of:

1. Releases of hazardous substances or petroleum products on or near the property
2. Records of above ground or underground storage tanks on the property

I will contact you if and when any records responsive to your request are located. I will also contact you before processing this request if there will be any fees to locate records, for which the DNR has authority to pre-bill for public records requests, per Wis. Stat. §19.35(3)(f). In the meantime, if you have any questions, please let me know.

Sincerely,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Phil Derge

Open Records Division Coordinator
Wisconsin Department of Natural Resources
Phone: (608) 264-6125
Philip.Derge@wisconsin.gov



**State of Wisconsin - Department of Natural Resources
Substance Release Notification Report (SERTS)**

Incident Date & Time 12/12/2017 08:45		Reported Date & Time 12/12/2017 11:19		Activity Type Spill		BRRTS No. 04-13-580881		SPILL ID 20171212SC13-1	
Reported to DATCP? No		Transferred to DATCP? No		NFA Letter Sent? No		Transferred to ERP? No		Status Archived	
Location									
DNR Region SC		Mgmt Region SC		County Dane		Municipality CHRISTIANA, TOWNSHIP OF		Parcel No.	
Location Name ROCKGEN ENERGY CENTER					Address 2346 CLEAR VIEW ROAD				
Location Description power plant								Facility ID	
Location Type Power Generating Plant/Utility Co/Electrical Trnsf/Dist Stn						PLSS Description			
WTM X		Latitude/Longitude Y		0		.00"		0	
Responsible Parties									

ROCKGEN ENERGY CENTER
2346 CLEAR VIEW ROAD
CAMBRIDGE WI 53523

Contact(s):
GLEN CALLOWAY

SPILL ID: 20171212SC13-1 BRRTS No: 04-13-580881

Cause						
Type HYDRAULIC LINE BREAK						
Other Cause						
Cause Description						

Substances						
Substance Engine Oil [Petroleum]			Substance Other			
Est. Amt. Released 70.00	Est. Amt. Recovered	UOM Gallon	Physical Characteristic LIQUID	Color	Odor	

Environmental Impacts		
Impact to Concrete/Asphalt	Other Desc	Surface Water Name
Environmental Impact Description		
Resource Damages? No	Resource Damage Type	
Resource Damage Comment		

LL ID: 20171212SC13-1 BRRTS No: 04-13-580881

State of Wisconsin - Department of Natural Resources
Substance Release Notification Report (SERTS)

SPI

Injuries? Injury Count Injury Comment
No 0
Evacuation? Evacuation Count Evacuation Comment
No 0

Response

Enforcement Action? Enforcement Type
No

Enforcement Comment

Investigated by Date Incident Commander Date
MICHAEL SCHMOLLER

Cleanup Actions

Absorbent (oil dry, sand, sawdust)

Product/Waste Removed

Cleanup Comments

BULK OF SPILL IS BEING SUCKED UP BY TRUCK, OTHER RUN OFF OIL IS BEING SCOOPED UP IN DRUMS. ABSORBENTS AND PADS ARE ALSO PLACED DOWN.

SCHMOLLER SPOKE WITH CALLOWAY. THE WASTE MATERIALS WERE HANDLED BY OSI. NEARLY ALL SPILLED MATERIAL WAS COLLECTED.

Contractors

OSI Environmental

Waste Destination

Other

Person Reporting

Anonymus Violation RP Contact

GLENN CALLOWAY
ROCKGEN ENERGY CENTER
GENERAL MANAGER

(847) 731-6266

Closure

Regional Spill Coordinator Mike M Schmoller (608) 275-3303	Docs Received On 01/24/2018	Date Closed 01/24/2018
--	--------------------------------	---------------------------

APPENDIX 15.7 SPECIAL CONTRACTUAL CONDITIONS BETWEEN USER AND ENVIRONMENTAL PROFESSIONAL

APPENDIX 15.8 SITE RECONNAISSANCE CHECK SHEET

Site Drainage

Site drainage is generally to north-northwest towards a storm water retention pond located in the far northwest portion of the property.

List Structures on Property (*Provide general description*)

1) Control/Maintenance building	2) Skid mounted, metal fire pump house
3) Abandoned residential structure	4) Abandoned barn structure
5) 3-natural gas fueled combustion turbines and accessory equipment.	6)
7)	8)
9)	10)
11)	12)
13)	14)
15)	16)

Surrounding Areas (*Describe general land use*)

Current Use(s):

North: Koshkonog Road and agricultural land _____

East: Carpenter Swain Road and agricultural land _____

South: Agricultural land _____

West: Agricultural land. _____

Past Use(s):

	<u>Use</u>	<u>Date of Use</u>
North:	<u>Same as Current</u> _____	_____
East:	<u>Same as Current</u> _____	_____
South:	<u>Same as Current</u> _____	_____
West:	<u>Same as Current</u> _____	_____

Roads (*Describe*)

County Roads surrounding the Site were paved with asphalt.

Railroads (Describe)

None

Potable Water Supply (Describe source)

On-site water well located near the southeast corner of the control/maintenance building.

ESA Limitations (Describe)

Most of the Site was covered in between four-six inches of snow and/or ice. As a result, a significant volume of surface area were unable to be observed.

Hazardous Substances and Petroleum Products (Currently on Property)

Location / Unit	Chemicals Stored	Volume	Storage Vessel	Condition
Maintenance area of control building	Waste Oil, med/heavy oil, oil absorbent, spent oil rags	< 385 Gals.	7- Drums on containment pallets	good
Maintenance area of control building	Gasoline, kerosene, engine oil, propylene glycol, insect repellent, cutting oil, silicone fluid, poly-foam, paint, muriatic acid, spray adhesive, anti-seize	< 25 Gals. total of all stored liquids	2-flammable liquids cabinets	good
Maintenance area of control building	Lubricant/grease	Unknown volume	Approximately 13- Buckets on containment pallets. Several empty buckets stacked on containment pallets.	good
Fuel oil unloading area	Used oil, oil absorbent, lubricant oil	< 715 Gals.	13- Drums within secondary containment area	good

Hazardous Substances and Petroleum Products (Past Use)

Location /Unit	Chemicals Stored	Release / Spill History	Current Visual Appearance ¹

¹ Note such items as "abandoned, closed in place, demolished, visual staining, etc."

Storage Tanks (Currently on Property)

Location / Unit	Type Tank ¹	Volume	Contents	Condition /Age
T1	AST	1.2 Million Gals.	Fuel oil	Good/18 years approx.
T2, T3, T4	AST	3,000 Gals.	Water condensed hydrocarbons	Good/18 years approx.
T5, T6, T7	AST	500 Gals.	Water condensed hydrocarbons	Good/18 years approx.
T8, T9, T10, T11	AST	150 Gals.	Dry gas scrubber water, water condensed hydrocarbons	Good/18 years approx.
T12, T13, T14	AST	6,200 Gals.	Combustion turbine lube oil	Good/18 years approx.
T15, T16, T17	AST	306 Gals.	4160-480 V transformer oil	Good/18 years approx.
T18, T19	AST	4,557 Gals	138-4.16 KV transformer oil.	Good/18 years approx.
T20, T21, T22	AST	12,250 Gals.	Generator	Good/18 years approx.
T23, T24, T25	AST	230 Gals.	Excitation	Good/18 years approx.
T26, T27	AST	1,412 Gals.	Isolation	Good/18 years approx.
No I.D.	AST	500,000 Gals	De-Mineralized Water	Good/18 years approx.
No I.D.	AST	600,000 Gals.	Raw Water	Good/18 years approx.
No I.D.	AST	1,000 Gals.	Propane	Good/18 years approx.
No I.D.	AST	1,000 Gals.	Ansul Foam	Good/18 years approx.

NO I.D.	AST	500 Gals.	Fuel Oil	Good/18 years approx.
---------	-----	-----------	----------	-----------------------

- 1 Above Ground (AG), Below Ground (BG), with Impervious Secondary Containment (w/SCI), with Permeable Secondary Containment (w/SCP)

Odors (Describe and provide location of source)

N/A

Pools of Liquid (Describe any standing surface water / Describe any pools or sumps containing hazardous substances or petroleum products)

Description	Location	Assumed Contents	Approx. Size	Construction Material
<i>Snow/Ice/Melt Water</i>	Most secondary containment areas throughout Site.			
<i>Snow/Ice/Melt Water</i>	Secondary Containment Sump within Fuel Oil Unloading Area.			

Drums (Currently on Property)

Location / Unit	Contents	Container Size	Number of Containers	Condition / Containment
<i>Maintenance area of control building</i>	<i>Waste Oil, med/heavy oil, oil absorbent, spent oil rags</i>	<i>55-Gals</i>	<i>7-Drums on containment pallets</i>	<i>good</i>
<i>Fuel oil unloading area</i>	<i>Used oil, oil absorbent, lubricant oil</i>	<i>55-Gals</i>	<i>13-Drums within secondary containment area</i>	<i>good</i>

Interior Observations

Structure ID: _____ Control/Maintenance Building _____
(Complete separate form for each structure evaluated)

Heating fuel source ___Propane_____

Cooling fuel source ___Electric Central Air_____

Stains / Corrosion (Except from water) Oil staining on absorbent pads in maintenance area.

Floors:

Location	Description
Reception Area	Vinyl Tiles
Office/Conference Room Areas	Vinyl Tiles
Kitchen/Restroom Areas	Vinyl Tiles
Maintenance Area	Concrete

Walls:

Location	Description
Reception Area	Dry wall
Office/Conference Room Areas	Dry Wall
Kitchen/Restroom Areas	Dry Wall
Maintenance Area	Steel support beams/purlins/blanket insulation

Ceiling:

Location	Description
Reception Area	Drop Ceiling/Acoustic Tiles
Office/Conference Room Areas	Drop Ceiling/Acoustic Tiles
Kitchen/Restroom Areas	Drop Ceiling/Acoustic Tiles
Maintenance Area	Steel support beam/purlins/blanket insulation

Drains / Sumps:

Location	Description
Restroom	Floor drain

- Off-site Industrial, *i.e.* POTW Liquid waste is managed by OSI Environmental.
- Sanitary wastewater
- Discharges permitted No discharge permits for the facility. _____
- Septic system(s) Septic system in operation at the facility. _____

Stormwater: (*Outfalls containing storm water only*)

- Permitted _____ N/A _____
- SWPPP _____

List outfalls or attach copy of SWPPP map

Outfall No.	Describe / Location

Wells Onsite

Classification	Present		Problems	
	Yes	No	Yes	No
Dry wells		X		
Irrigation Wells		X		
Injection Wells		X		
Abandoned (Oil Wells)		X		
Other (water well)	X			X

PCBs _____

Heating fuel source Propane

Cooling fuel source Electric

Groundwater issues _____ Yes X No (If Yes, describe nature of problem)

Interior Observations

Structure ID: __Abandoned Residential Structure__
(Complete separate form for each structure evaluated)

Heating fuel source _____ N/A _____

Cooling fuel source _____ N/A _____

Stains / Corrosion (Except from water) _____ None observed from exterior. _____

Floors:

Location	Description
Various first floor rooms observed from exterior	Wood flooring covered in carpet.

Walls:

Location	Description
Various first floor rooms observed from exterior	Drywall or plaster

Ceiling:

Location	Description
Various first floor rooms observed from exterior	Drywall or plaster

Drains / Sumps:

Location	Description
None observed	

Exterior Observations

Stained Soil or Pavement

Location	Description
None observed	

Stressed Vegetation

Location	Description
None observed	

Solid Waste

Location	Description
Various items of household waste observed throughout the interior and in various locations around the exterior	Cans, plastic containers, furniture remnants.

Pits, Ponds, Lagoons

Location	Description
None observed	

Wastewater: *(Describe)*

- Onsite industrial treatment _____ N/A
- Off-site Industrial, *i.e.* POTW _____ N/A

- Sanitary wastewater _____ N/A _____
- Discharges permitted _____ N/A _____
- Septic system(s) _____ Unknown _____

Stormwater: (*Outfalls containing storm water only*)

- Permitted _____ N/A _____
- SWPPP _____ N/A _____

List outfalls or attach copy of SWPPP map

Outfall No.	Describe / Location

Wells Onsite

Classification	Present		Problems	
	Yes	No	Yes	No
Dry wells		X		
Irrigation Wells		X		
Injection Wells		X		
Abandoned (Oil Wells)		X		
Other (water well)	Unknown			

PCBs _____ Unknown _____

Heating fuel source _____ N/A _____

Cooling fuel source _____ N/A _____

Groundwater issues _____ Yes _____ No (If Yes, describe nature of problem)

Unknown

Interior Observations

Structure ID: _____ Abandoned Barn Structure _____
(Complete separate form for each structure evaluated)

Heating fuel source _____ N/A _____

Cooling fuel source _____ N/A _____

Stains / Corrosion (Except from water) _____ None observed from exterior _____

Floors:

Location	Description
Ground Level	Wooden beams and planks
Basement	Concrete

Walls:

Location	Description
Ground Level	Wooden beams and planks
Basement	Concrete

Ceiling:

Location	Description
Ground Level	Wooden Beam and Planks
Basement	Wooden Planks

Drains / Sumps:

Location	Description
None Observed	

Exterior Observations

Stained Soil or Pavement

Location	Description
None Observed	

Stressed Vegetation

Location	Description
None Observed	

Solid Waste

Location	Description
None Observed	

Pits, Ponds, Lagoons

Location	Description
None Observed	

Wastewater: *(Describe)*

- Onsite industrial treatment _____ N/A
- Off-site Industrial, *i.e.* POTW _____ N/A
- Sanitary wastewater _____ N/A

- Discharges permitted _____ N/A _____
- Septic system(s) _____ Unknown _____

Stormwater: (*Outfalls containing storm water only*)

- Permitted _____ N/A _____
- SWPPP _____ N/A _____

List outfalls or attach copy of SWPPP map

Outfall No.	Describe / Location

Wells Onsite

Classification	Present		Problems	
	Yes	No	Yes	No
Dry wells		X		
Irrigation Wells		X		
Injection Wells		X		
Abandoned (Oil Wells)		X		
Other (water well)	Unknown			

PCBs _____ Unknown _____

Heating fuel source _____ N/A _____

Cooling fuel source _____ N/A _____

Groundwater issues _____ Yes _____ No (If Yes, describe nature of problem)

Unknown

Appendix B: Pace Laboratory Report



Report of Analysis

RockGen Energy Center
2346 Clear View Rd.
Cambridge, WI 53523
Attention: Dennis Oehring

Lot Number: **WC11001**
Date Completed: 03/16/2021

Karen Coonan

03/16/2021 2:33 PM
Approved and released by:
Project Manager II: **Karen L. Coonan**



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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative RockGen Energy Center Lot Number: WC11001

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

In the Matrix Spike (MS) associated with sample -003, MeFOSA recovered outside of the acceptance limits. The Laboratory Control Spike (LCS) recovered within the required acceptance limits; therefore, this demonstrates a matrix effect and data quality is not impacted.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
RockGen Energy Center
Lot Number: WC11001
Project Name:
Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Raw Tap	Aqueous	03/10/2021 1629	03/11/2021
002	Kitchen Tap	Aqueous	03/10/2021 1632	03/11/2021
003	Filter Tap	Aqueous	03/10/2021 1636	03/11/2021
004	Fridge Tap	Aqueous	03/10/2021 1637	03/11/2021

(4 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
RockGen Energy Center
Lot Number: WC11001
Project Name:
Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	Raw Tap	Aqueous	8:2 FTS	PFAS by ID	750		ng/L	5
001	Raw Tap	Aqueous	6:2 FTS	PFAS by ID	2700		ng/L	5
001	Raw Tap	Aqueous	4:2 FTS	PFAS by ID	8.7		ng/L	5
001	Raw Tap	Aqueous	PFBS	PFAS by ID	1.1	J	ng/L	5
001	Raw Tap	Aqueous	PFOSA	PFAS by ID	1.1	J	ng/L	5
001	Raw Tap	Aqueous	PFHxS	PFAS by ID	1.2	J	ng/L	5
001	Raw Tap	Aqueous	PFBA	PFAS by ID	120		ng/L	5
001	Raw Tap	Aqueous	PFDA	PFAS by ID	5.6		ng/L	5
001	Raw Tap	Aqueous	PFHpA	PFAS by ID	190		ng/L	5
001	Raw Tap	Aqueous	PFHxA	PFAS by ID	340		ng/L	5
001	Raw Tap	Aqueous	PFNA	PFAS by ID	23		ng/L	5
001	Raw Tap	Aqueous	PFOA	PFAS by ID	210		ng/L	5
001	Raw Tap	Aqueous	PFPeA	PFAS by ID	500		ng/L	5
001	Raw Tap	Aqueous	PFOS	PFAS by ID	7.8		ng/L	5
002	Kitchen Tap	Aqueous	8:2 FTS	PFAS by ID	860		ng/L	7
002	Kitchen Tap	Aqueous	6:2 FTS	PFAS by ID	3000		ng/L	7
002	Kitchen Tap	Aqueous	4:2 FTS	PFAS by ID	8.5		ng/L	7
002	Kitchen Tap	Aqueous	PFBS	PFAS by ID	1.4	J	ng/L	7
002	Kitchen Tap	Aqueous	PFOSA	PFAS by ID	1.5	J	ng/L	7
002	Kitchen Tap	Aqueous	PFBA	PFAS by ID	120		ng/L	7
002	Kitchen Tap	Aqueous	PFDA	PFAS by ID	5.6		ng/L	7
002	Kitchen Tap	Aqueous	PFHpA	PFAS by ID	200		ng/L	7
002	Kitchen Tap	Aqueous	PFHxA	PFAS by ID	350		ng/L	7
002	Kitchen Tap	Aqueous	PFNA	PFAS by ID	24		ng/L	7
002	Kitchen Tap	Aqueous	PFOA	PFAS by ID	200		ng/L	7
002	Kitchen Tap	Aqueous	PFPeA	PFAS by ID	490		ng/L	7
002	Kitchen Tap	Aqueous	PFOS	PFAS by ID	8.9		ng/L	7
003	Filter Tap	Aqueous	PFBA	PFAS by ID	4.0		ng/L	9
004	Fridge Tap	Aqueous	6:2 FTS	PFAS by ID	14		ng/L	11
004	Fridge Tap	Aqueous	PFBA	PFAS by ID	2.1	J	ng/L	11

(30 detections)

PFAS by LC/MS/MS

Client: **RockGen Energy Center**

Laboratory ID: **WC11001-001**

Description: **Raw Tap**

Matrix: **Aqueous**

Date Sampled: **03/10/2021 1629**

Project Name:

Date Received: **03/11/2021**

Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/13/2021 1508	JJG	03/12/2021 1044	85520
2	SOP SPE	PFAS by ID SOP	5	03/15/2021 1239	JJG	03/12/2021 1044	85520

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3...)	763051-92-9	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	750		8.0	2.0	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	2700		40	10	ng/L	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	8.7		8.0	2.0	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		16	4.0	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	1.1	J	4.0	1.0	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	1.1	J	4.0	1.0	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		8.0	2.0	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.2	J	4.0	1.0	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	120		4.0	1.0	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	5.6		4.0	1.0	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	190		4.0	1.0	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	340		4.0	1.0	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	23		4.0	1.0	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	210		4.0	1.0	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	500		4.0	1.0	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	PFAS by ID SOP	ND		4.0	1.0	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	7.8		4.0	1.0	ng/L	1

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_4:2FTS		90		85
13C2_6:2FTS		88		106
13C2_8:2FTS		93		118
13C2_PFDaA		92		95
13C2_PFTeDA		90		94
13C3_PFBS		81		92
13C3_PFHxS		91		90
13C3-HFPO-DA		97		99

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: RockGen Energy Center	Laboratory ID: WC11001-001
Description: Raw Tap	Matrix: Aqueous
Date Sampled: 03/10/2021 1629	Project Name:
Date Received: 03/11/2021	Project Number:

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C4_PFBa		91	25-150		96	25-150
13C4_PFHpA		100	25-150		92	25-150
13C5_PFHxA		97	25-150		95	25-150
13C5_PFPeA		92	25-150		98	25-150
13C6_PFDa		93	25-150		91	25-150
13C7_PFUdA		93	25-150		97	25-150
13C8_PFOA		93	25-150		98	25-150
13C8_PFOS		87	25-150		87	25-150
13C8_PFOSA		98	10-150		91	10-150
13C9_PFNA		96	25-150		94	25-150
d-EtFOSA		59	10-150		66	10-150
d5-EtFOSAA		83	25-150		94	25-150
d9-EtFOSE		84	10-150		88	10-150
d-MeFOSA		68	10-150		90	10-150
d3-MeFOSAA		88	25-150		93	25-150
d7-MeFOSE		92	10-150		90	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: RockGen Energy Center	Laboratory ID: WC11001-002
Description: Kitchen Tap	Matrix: Aqueous
Date Sampled: 03/10/2021 1632	Project Name:
Date Received: 03/11/2021	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/13/2021 1518	JJG	03/12/2021 1044	85520
2	SOP SPE	PFAS by ID SOP	5	03/15/2021 1250	JJG	03/12/2021 1044	85520

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	860		37	9.3	ng/L	2
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	3000		37	9.3	ng/L	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	8.5		7.4	1.9	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	3.7	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	1.4	J	3.7	0.93	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	1.5	J	3.7	0.93	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	120		3.7	0.93	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	5.6		3.7	0.93	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	200		3.7	0.93	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	350		3.7	0.93	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	24		3.7	0.93	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	200		3.7	0.93	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	490		3.7	0.93	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	8.9		3.7	0.93	ng/L	1

Surrogate	Run 1		Run 2	
	Q	% Recovery	Q	% Recovery
13C2_4:2FTS		100		91
13C2_6:2FTS		110		97
13C2_8:2FTS		115		113
13C2_PFDaA		95		104
13C2_PFTeDA		100		100
13C3_PFBS		93		97
13C3_PFHxS		98		101
13C3-HFPO-DA		109		105

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

PFAS by LC/MS/MS

Client: RockGen Energy Center	Laboratory ID: WC11001-002
Description: Kitchen Tap	Matrix: Aqueous
Date Sampled: 03/10/2021 1632	Project Name:
Date Received: 03/11/2021	Project Number:

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C4_PFBA		108	25-150		103	25-150
13C4_PFHpA		108	25-150		99	25-150
13C5_PFHxA		108	25-150		101	25-150
13C5_PFPeA		103	25-150		100	25-150
13C6_PFDA		106	25-150		98	25-150
13C7_PFUdA		108	25-150		102	25-150
13C8_PFOA		108	25-150		98	25-150
13C8_PFOS		96	25-150		98	25-150
13C8_PFOSA		102	10-150		104	10-150
13C9_PFNA		108	25-150		100	25-150
d-EtFOSA		72	10-150		72	10-150
d5-EtFOSAA		95	25-150		105	25-150
d9-EtFOSE		89	10-150		96	10-150
d-MeFOSA		77	10-150		88	10-150
d3-MeFOSAA		87	25-150		106	25-150
d7-MeFOSE		93	10-150		108	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: **RockGen Energy Center**

Laboratory ID: **WC11001-003**

Description: **Filter Tap**

Matrix: **Aqueous**

Date Sampled: **03/10/2021 1636**

Project Name:

Date Received: **03/11/2021**

Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/13/2021 1529	JJG	03/12/2021 1044	85520

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	3.8	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.7	1.9	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	4.0		3.8	0.96	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	PFAS by ID SOP	ND		3.8	0.96	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.8	0.96	ng/L	1

Surrogate	Run 1 Q	Acceptance % Recovery	Limits
13C2_4:2FTS	98		25-150
13C2_6:2FTS	106		25-150
13C2_8:2FTS	100		25-150
13C2_PFDaA	105		25-150
13C2_PFTeDA	104		25-150
13C3_PFBS	96		25-150
13C3_PFHxS	111		25-150
13C3-HFPO-DA	108		25-150
13C4_PFBA	109		25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: RockGen Energy Center	Laboratory ID: WC11001-003
Description: Filter Tap	Matrix: Aqueous
Date Sampled: 03/10/2021 1636	Project Name:
Date Received: 03/11/2021	Project Number:

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C4_PFHpA		118	25-150
13C5_PFHxA		117	25-150
13C5_PFPeA		107	25-150
13C6_PFDA		104	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		117	25-150
13C8_PFOS		100	25-150
13C8_PFOSA		112	10-150
13C9_PFNA		108	25-150
d-EtFOSA		66	10-150
d5-EtFOSAA		93	25-150
d9-EtFOSE		94	10-150
d-MeFOSA		69	10-150
d3-MeFOSAA		96	25-150
d7-MeFOSE		103	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: RockGen Energy Center	Laboratory ID: WC11001-004
Description: Fridge Tap	Matrix: Aqueous
Date Sampled: 03/10/2021 1637	Project Name:
Date Received: 03/11/2021	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/13/2021 1601	JJG	03/12/2021 1044	85520

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	14		7.5	1.9	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	3.7	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.1	J	3.7	0.93	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.93	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.7	0.93	ng/L	1

Surrogate	Run 1 Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		94	25-150
13C2_6:2FTS		99	25-150
13C2_8:2FTS		101	25-150
13C2_PFDaA		94	25-150
13C2_PFTeDA		95	25-150
13C3_PFBS		91	25-150
13C3_PFHxS		100	25-150
13C3-HFPO-DA		102	25-150
13C4_PFBA		32	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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PFAS by LC/MS/MS

Client: RockGen Energy Center	Laboratory ID: WC11001-004
Description: Fridge Tap	Matrix: Aqueous
Date Sampled: 03/10/2021 1637	Project Name:
Date Received: 03/11/2021	Project Number:

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C4_PFHpA		109	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		97	25-150
13C6_PFDA		96	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		105	25-150
13C8_PFOS		94	25-150
13C8_PFOSA		106	10-150
13C9_PFNA		109	25-150
d-EtFOSA		80	10-150
d5-EtFOSAA		96	25-150
d9-EtFOSE		86	10-150
d-MeFOSA		85	10-150
d3-MeFOSAA		95	25-150
d7-MeFOSE		87	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: WQ85520-001

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
9CI-PF3ONS	ND		1	8.0	2.0	ng/L	03/13/2021 1447
11CI-PF3OUdS	ND		1	8.0	2.0	ng/L	03/13/2021 1447
8:2 FTS	ND		1	8.0	2.0	ng/L	03/13/2021 1447
6:2 FTS	ND		1	8.0	2.0	ng/L	03/13/2021 1447
4:2 FTS	ND		1	8.0	2.0	ng/L	03/13/2021 1447
GenX	ND		1	8.0	2.0	ng/L	03/13/2021 1447
ADONA	ND		1	8.0	2.0	ng/L	03/13/2021 1447
EtFOSA	ND		1	8.0	2.0	ng/L	03/13/2021 1447
EtFOSAA	ND		1	8.0	2.0	ng/L	03/13/2021 1447
EtFOSE	ND		1	8.0	2.0	ng/L	03/13/2021 1447
MeFOSA	ND		1	16	4.0	ng/L	03/13/2021 1447
MeFOSAA	ND		1	8.0	2.0	ng/L	03/13/2021 1447
MeFOSE	ND		1	8.0	2.0	ng/L	03/13/2021 1447
PFBS	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFDS	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFHpS	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFNS	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFOSA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFPeS	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFDOS	ND		1	8.0	2.0	ng/L	03/13/2021 1447
PFHxS	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFBA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFDA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFDoA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFHpA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFHxA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFNA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFOA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFPeA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFTeDA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFTTrDA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFUdA	ND		1	4.0	1.0	ng/L	03/13/2021 1447
PFOS	ND		1	4.0	1.0	ng/L	03/13/2021 1447

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		109	25-150
13C2_6:2FTS		113	25-150
13C2_8:2FTS		109	25-150
13C2_PFDoA		107	25-150
13C2_PFTeDA		108	25-150
13C3_PFBs		100	25-150
13C3_PFHxS		111	25-150
13C3-HFPO-DA		120	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ85520-001

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Surrogate	Q	% Rec	Acceptance Limit
13C4_PFBFA		117	25-150
13C4_PFHpA		125	25-150
13C5_PFHxA		119	25-150
13C5_PFPeA		115	25-150
13C6_PFDA		112	25-150
13C7_PFUdA		111	25-150
13C8_PFOA		120	25-150
13C8_PFOS		102	25-150
13C8_PFOSA		111	10-150
13C9_PFNA		116	25-150
d-EtFOSA		73	10-150
d5-EtFOSAA		104	25-150
d9-EtFOSE		106	10-150
d-MeFOSA		74	10-150
d3-MeFOSAA		109	25-150
d7-MeFOSE		112	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ85520-002

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
9CI-PF3ONS	15	15		1	99	50-150	03/13/2021 1457
11CI-PF3OUdS	15	14		1	95	50-150	03/13/2021 1457
8:2 FTS	15	17		1	109	50-150	03/13/2021 1457
6:2 FTS	15	16		1	106	50-150	03/13/2021 1457
4:2 FTS	15	16		1	109	50-150	03/13/2021 1457
GenX	32	33		1	102	50-150	03/13/2021 1457
ADONA	15	16		1	103	50-150	03/13/2021 1457
EtFOSA	16	24		1	148	50-150	03/13/2021 1457
EtFOSAA	16	14		1	90	50-150	03/13/2021 1457
EtFOSE	16	20		1	126	50-150	03/13/2021 1457
MeFOSA	16	20		1	126	50-150	03/13/2021 1457
MeFOSAA	16	18		1	110	50-150	03/13/2021 1457
MeFOSE	16	16		1	102	50-150	03/13/2021 1457
PFBS	14	17		1	120	50-150	03/13/2021 1457
PFDS	15	13		1	85	50-150	03/13/2021 1457
PFHpS	15	16		1	107	50-150	03/13/2021 1457
PFNS	15	17		1	108	50-150	03/13/2021 1457
PFOSA	16	17		1	104	50-150	03/13/2021 1457
PFPeS	15	18		1	120	50-150	03/13/2021 1457
PFDOS	15	13		1	84	50-150	03/13/2021 1457
PFHxS	15	15		1	100	50-150	03/13/2021 1457
PFBA	16	16		1	103	50-150	03/13/2021 1457
PFDA	16	17		1	106	50-150	03/13/2021 1457
PFDoA	16	16		1	97	50-150	03/13/2021 1457
PFHpA	16	16		1	97	50-150	03/13/2021 1457
PFHxA	16	16		1	102	50-150	03/13/2021 1457
PFNA	16	16		1	103	50-150	03/13/2021 1457
PFOA	16	16		1	97	50-150	03/13/2021 1457
PFPeA	16	16		1	99	50-150	03/13/2021 1457
PFTeDA	16	16		1	101	50-150	03/13/2021 1457
PFTTrDA	16	14		1	85	50-150	03/13/2021 1457
PFUdA	16	15		1	92	50-150	03/13/2021 1457
PFOS	15	16		1	108	50-150	03/13/2021 1457

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		97	25-150
13C2_6:2FTS		100	25-150
13C2_8:2FTS		101	25-150
13C2_PFDaA		98	25-150
13C2_PFTeDA		93	25-150
13C3_PFBS		88	25-150
13C3_PFHxS		102	25-150
13C3-HFPO-DA		107	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ85520-002

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Surrogate	Q	% Rec	Acceptance Limit
13C4_PFBFA		102	25-150
13C4_PFHpA		107	25-150
13C5_PFHxA		106	25-150
13C5_PFPeA		100	25-150
13C6_PFDA		101	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		104	25-150
13C8_PFOS		92	25-150
13C8_PFOSA		92	10-150
13C9_PFNA		105	25-150
d-EtFOSA		69	10-150
d5-EtFOSAA		88	25-150
d9-EtFOSE		87	10-150
d-MeFOSA		72	10-150
d3-MeFOSAA		94	25-150
d7-MeFOSE		98	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: WC11001-003MS

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Parameter	Sample Amount (ng/L)	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
9CI-PF3ONS	ND	13	14		1	103	50-150	03/13/2021 1540
11CI-PF3OUdS	ND	13	14		1	103	50-150	03/13/2021 1540
8:2 FTS	ND	13	14		1	107	50-150	03/13/2021 1540
6:2 FTS	ND	13	20		1	150	50-150	03/13/2021 1540
4:2 FTS	ND	13	17		1	130	50-150	03/13/2021 1540
GenX	ND	28	30		1	105	50-150	03/13/2021 1540
ADONA	ND	13	15		1	111	50-150	03/13/2021 1540
EtFOSA	ND	14	18		1	125	50-150	03/13/2021 1540
EtFOSAA	ND	14	14		1	98	50-150	03/13/2021 1540
EtFOSE	ND	14	18		1	129	50-150	03/13/2021 1540
MeFOSA	ND	14	23	N	1	161	50-150	03/13/2021 1540
MeFOSAA	ND	14	15		1	107	50-150	03/13/2021 1540
MeFOSE	ND	14	17		1	124	50-150	03/13/2021 1540
PFBS	ND	12	16		1	129	50-150	03/13/2021 1540
PFDS	ND	14	15		1	110	50-150	03/13/2021 1540
PFHpS	ND	13	15		1	114	50-150	03/13/2021 1540
PFNS	ND	14	13		1	93	50-150	03/13/2021 1540
PFOSA	ND	14	16		1	112	50-150	03/13/2021 1540
PFPeS	ND	13	16		1	119	50-150	03/13/2021 1540
PFDOS	ND	14	12		1	89	50-150	03/13/2021 1540
PFHxS	ND	13	13		1	101	50-150	03/13/2021 1540
PFBA	4.0	14	19		1	104	50-150	03/13/2021 1540
PFDA	ND	14	16		1	111	50-150	03/13/2021 1540
PFDaA	ND	14	15		1	108	50-150	03/13/2021 1540
PFHpA	ND	14	15		1	105	50-150	03/13/2021 1540
PFHxA	ND	14	14		1	102	50-150	03/13/2021 1540
PFNA	ND	14	15		1	106	50-150	03/13/2021 1540
PFOA	ND	14	15		1	104	50-150	03/13/2021 1540
PFPeA	ND	14	15		1	108	50-150	03/13/2021 1540
PFTeDA	ND	14	15		1	107	50-150	03/13/2021 1540
PFTrDA	ND	14	15		1	105	50-150	03/13/2021 1540
PFUdA	ND	14	15		1	107	50-150	03/13/2021 1540
PFOS	ND	13	16		1	119	50-150	03/13/2021 1540
Surrogate	Q	% Rec	Acceptance Limit					
13C2_4:2FTS		91	25-150					
13C2_6:2FTS		105	25-150					
13C2_8:2FTS		105	25-150					
13C2_PFDaA		92	25-150					
13C2_PFTeDA		98	25-150					
13C3_PFBS		87	25-150					
13C3_PFHxS		101	25-150					
13C3-HFPO-DA		106	25-150					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: WC11001-003MS

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Surrogate	Q	% Rec	Acceptance Limit
13C4_PFBa		102	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		105	25-150
13C5_PFPeA		100	25-150
13C6_PFDA		99	25-150
13C7_PFUdA		95	25-150
13C8_PFOA		110	25-150
13C8_PFOS		92	25-150
13C8_PFOSA		101	10-150
13C9_PFNA		104	25-150
d-EtFOSA		66	10-150
d5-EtFOSAA		95	25-150
d9-EtFOSE		88	10-150
d-MeFOSA		61	10-150
d3-MeFOSAA		92	25-150
d7-MeFOSE		95	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: WC11001-003MD

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Parameter	Sample Amount (ng/L)	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date	
9CI-PF3ONS	ND	13	13		1	102	0.47	50-150	30	03/13/2021 1550	
11CI-PF3OUdS	ND	13	14		1	107	4.1	50-150	30	03/13/2021 1550	
8:2 FTS	ND	14	15		1	111	4.6	50-150	30	03/13/2021 1550	
6:2 FTS	ND	13	16		1	119	23	50-150	30	03/13/2021 1550	
4:2 FTS	ND	13	13		1	99	27	50-150	30	03/13/2021 1550	
GenX	ND	28	31		1	110	4.9	50-150	30	03/13/2021 1550	
ADONA	ND	13	15		1	114	2.2	50-150	30	03/13/2021 1550	
EtFOSA	ND	14	17		1	118	5.7	50-150	30	03/13/2021 1550	
EtFOSAA	ND	14	15		1	107	9.4	50-150	30	03/13/2021 1550	
EtFOSE	ND	14	20		1	142	10	50-150	30	03/13/2021 1550	
MeFOSA	ND	14	16	+	1	117	32	50-150	30	03/13/2021 1550	
MeFOSAA	ND	14	15		1	109	2.0	50-150	30	03/13/2021 1550	
MeFOSE	ND	14	16		1	114	8.1	50-150	30	03/13/2021 1550	
PFBS	ND	12	15		1	118	8.3	50-150	30	03/13/2021 1550	
PFDS	ND	14	13		1	96	13	50-150	30	03/13/2021 1550	
PFHpS	ND	13	15		1	111	1.9	50-150	30	03/13/2021 1550	
PFNS	ND	14	13		1	97	5.3	50-150	30	03/13/2021 1550	
PFOSA	ND	14	15		1	107	4.8	50-150	30	03/13/2021 1550	
PFPeS	ND	13	15		1	112	6.0	50-150	30	03/13/2021 1550	
PFDOS	ND	14	13		1	94	6.0	50-150	30	03/13/2021 1550	
PFHxS	ND	13	12		1	97	4.1	50-150	30	03/13/2021 1550	
PFBA	4.0	14	19		1	106	2.0	50-150	30	03/13/2021 1550	
PFDA	ND	14	16		1	110	0.80	50-150	30	03/13/2021 1550	
PFDoA	ND	14	16		1	110	2.3	50-150	30	03/13/2021 1550	
PFHpA	ND	14	15		1	104	0.29	50-150	30	03/13/2021 1550	
PFHxA	ND	14	14		1	102	0.49	50-150	30	03/13/2021 1550	
PFNA	ND	14	15		1	103	3.0	50-150	30	03/13/2021 1550	
PFOA	ND	14	15		1	105	1.4	50-150	30	03/13/2021 1550	
PFPeA	ND	14	15		1	106	1.5	50-150	30	03/13/2021 1550	
PFTeDA	ND	14	16		1	111	3.7	50-150	30	03/13/2021 1550	
PFTTrDA	ND	14	14		1	101	3.8	50-150	30	03/13/2021 1550	
PFUdA	ND	14	15		1	103	4.0	50-150	30	03/13/2021 1550	
PFOS	ND	13	16		1	123	3.1	50-150	30	03/13/2021 1550	
Surrogate	Q	% Rec	Acceptance Limit								
13C2_4:2FTS		92	25-150								
13C2_6:2FTS		91	25-150								
13C2_8:2FTS		89	25-150								
13C2_PFDoA		87	25-150								
13C2_PFTeDA		91	25-150								
13C3_PFBBS		86	25-150								
13C3_PFHxS		92	25-150								
13C3-HFPO-DA		97	25-150								

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: WC11001-003MD

Matrix: Aqueous

Batch: 85520

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 03/12/2021 1044

Surrogate	Q	% Rec	Acceptance Limit
13C4_PFBAs		95	25-150
13C4_PFHpA		101	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		95	25-150
13C6_PFDA		96	25-150
13C7_PFUdA		86	25-150
13C8_PFOA		100	25-150
13C8_PFOS		82	25-150
13C8_PFOSA		90	10-150
13C9_PFNA		98	25-150
d-EtFOSA		75	10-150
d5-EtFOSAA		85	25-150
d9-EtFOSE		79	10-150
d-MeFOSA		70	10-150
d3-MeFOSAA		86	25-150
d7-MeFOSE		90	10-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

**Chain of Custody
and
Miscellaneous Documents**



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number **L16322**

Client: Rockgen Energy Center			Report to Contact				Telephone No. / E-mail: DEANIS OSHRINI				Quote No.		
Address: 2346 Clear View Rd			Sampler's Signature: Kari-Ann Killian				Analysis (Attach list if more space is needed)				Part of		
City: Cambridge		State: WI	Zip Code: 53523		Printed Name: Kari-Ann Killian		PPAS WDNR 33 PPAS BY ID WDNR GUIDANCE 33 compounds MS/MSO				Barcode: WC11001		
Project Name			Project No.		P.O. No.						No. of Containers by Preservative Type		Remarks / Cooler I.D.
Sample ID / Description (Containers for each sample may be combined on one line.)			Collection Date(s)	Collection Time (MST)	Acid	Alkaline	Ascorbic	Boric	EDTA	Formic	Glacial Acetic	Other	Other
Raw Tap			3/10/21	1629	G	X							X
Kitchen Tap			3/10/21	1632	G	X							X
Filter Tap			3/10/21	1636	G	X							X
Fridge Tap			3/10/21	1637	G	X							X
Turn Around Time Required (Prior lab approval required for expedited TAT): <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush (Specify) 3-day			Sample Disposal: <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab			Possible Hazard Identification: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Irritable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown					QC Requirements (Specify)		
1. Relinquished by: Kari-Ann Killian			Date: 3/10/21	Time: 1723	1. Received by					Date	Time		
2. Relinquished by:			Date	Time	2. Received by					Date	Time		
3. Relinquished by:			Date	Time	3. Received by					Date	Time		
4. Relinquished by: FedEx			Date: 3/11/21	Time: 0950	4. Laboratory received by:					Date: 3/11/21	Time: 0950		
Note: All samples are retained for four weeks from receipt unless other arrangements are made.					LAB USE ONLY Received on ice (Gals) <input checked="" type="checkbox"/> No <input type="checkbox"/> Ice Pack			Receipt Temp: 2.3 °C		Temp Blank <input checked="" type="checkbox"/> <input type="checkbox"/> N			

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MF008N2-01

PACE ANALYTICAL SERVICES, LLC

PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)

Revised: 9/29/2020

Issuing Authority: Pace ENV - WCOL

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: ROCKGEN

Cooler Inspected by/date: MEH / 03/11/2021

Lot #: WC11001

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1. Were custody seals present on the cooler?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>NA</u> <u>2.3 / 2.3</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: <u>phone / email / face-to-face</u> (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/pheno/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # <u>NA</u>
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (if #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>MEH</u> Date: <u>03/11/2021</u>	

Comments:

Appendix C: AFFF Safety Data Sheets (SDS)



Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ANSULITE 3% AFFF (AFC-3A)

1. Identification

1.1. Product Identifier

Product name ANSULITE 3% AFFF (AFC-3A)

1.2. Other means of identification

Product code GFN1010-2-016
Synonyms None
Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent.
Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products
One Stanton Street
Marinette, WI 54143-2542
Telephone: 715-735-7411
Contact point Product Stewardship at 1-715-735-7411
E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

2. Hazards Identification

Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2. Label Elements

Hazard Statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Precautionary Statements

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. Other Information

3. Composition/information on Ingredients



3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
2-(2-Butoxyethoxy)ethanol	112-34-5	5 - 10
Lauryl Imino Propionate, Sodium Salt	14960-06-6	1 - 5

4. First aid measures

4.1. Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal Precautions** Ensure adequate ventilation, especially in confined areas.
- For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental Precautions

- Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

- Methods for Containment** Prevent further leakage or spillage if safe to do so.
- Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for Safe Handling

- Advice on safe handling** Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.
- Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	-	-

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate Engineering Controls

- Engineering controls** Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.
- Skin and Body Protection** Wear protective gloves and protective clothing.
- Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be



required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Ventilation Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Color	Light yellow
Odor	Mild		
Odor Threshold	No data available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.5	
Melting point/freezing point	No data available	
Boiling point / boiling range	97 °C / 207 °F	
Flash Point	> 100 °C / > 212 °F	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Specific gravity	No data available	
Water Solubility	No data available	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic viscosity	No data available	

Density 1.02

10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid



Product code GFN1010-2-016 / Product name ANSULITE 3% /
AFFF (AFC-3A)

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Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information	No data available
Inhalation	No data available.
Eye Contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol 112-34-5	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-

11.2. Information on Toxicological Effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	29412 mg/kg
ATEmix (dermal)	31765 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna
t-Butanol	EC50 (72h) > 1000 mg/L	LC50 (96h) flow-through 6130 -	EC50 (48h) = 933 mg/L Daphnia



75-65-0	Desmodesmus subspicatus	6700 mg/L Pimephales promelas	magna EC50 (48h) Static 4607 - 6577 mg/L Daphnia magna
2-Methyl-2,4-pentanediol 107-41-5	-	LC50 (96h) static = 10700 mg/L Pimephales promelas LC50 (96h) flow-through = 8690 mg/L Pimephales promelas LC50 (96h) flow-through 10500 - 11000 mg/L Pimephales promelas LC50 (96h) static = 10000 mg/L Lepomis macrochirus	EC50 (48h) 2700 - 3700 mg/L Daphnia magna
Polyethylene Glycol 25322-68-3	-	LC50 (24h) > 5000 mg/L Carassius auratus	-
1-Octanol 111-87-5	EC50 (48h) static = 14 mg/L Desmodesmus subspicatus	LC50 (96h) static = 17.68 mg/L Oncorhynchus mykiss LC50 (96h) flow-through 11.4 - 12.9 mg/L Pimephales promelas	EC50 (24h) 15 - 26 mg/L Daphnia magna

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not reuse container.

14. Transport Information

DOT NOT REGULATED

TDG NOT REGULATED

MEX NOT REGULATED

ICAO (air) NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

15. Regulatory Information

15.1. International Inventories



Product code GFN1010-2-016 / Product name ANSULITE 3% /
 AFFF (AFC-3A)

TSCA Complies
 DSL/NDSL Does not comply
 ENCS Does not comply
 IECS Does not comply
 KECL Complies
 PICCS Does not comply
 AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 ENCS - Japan Existing and New Chemical Substances
 IECS - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard No
 Chronic health hazard No
 Fire Hazard No
 Sudden Release of Pressure Hazard No
 Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.3. US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol 112-34-5	X	-	X
t-Butanol 75-65-0	X	X	X
2-Methyl-2,4-pentanediol 107-41-5	X	X	X



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1-Octanol 111-87-5	-	-	X
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16. Other information, including date of preparation of the last revision

NFPA Health Hazards 0 Flammability 1 Instability 0 Physical and chemical properties -
HMIS Health Hazards 0 Flammability 1 Physical Hazards 0 Personal Protection X

Revision date 22-Feb-2018

Revision note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

Product name ANSULITE 3% (AFC-3A) AFFF Concentrate

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product code 026700
Product name ANSULITE 3% (AFC-3A) AFFF Concentrate
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Fire extinguishing agent

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Company Name Tyco Fire Suppression & Building Products
1 Kopersteden
TJ Enschede, Netherlands
Telephone: 3153-428-4444

For further information, please contact

psra@tycofp.com

1.4. Emergency telephone number

CHEMTREC 001-800-424-9300 or 001-703-527-3887

National Poisons Information Centre (NPIC)
+353-1809 2566

SECTION 2: Hazards identification



Product code 026700

Product name ANSULITE 3%
(AFC-3A) AFFF Concentrate

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2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label Elements

Signal Word

None

EUH210 - Safety data sheet available on request

2.3. Other Hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not Applicable

3.2 Mixture

Chemical name	Index No	EC No	CAS No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
2-(2-Butoxyethoxy)ethanol	603-096-00-8	203-961-6	112-34-5	0 - 10%	Eye Irrit. 2 (H319)	01-2119475104-44
Lauryl Imino Propionate, Sodium Salt	-	239-032-7	14960-06-6	0 - 10%	Eye Irrit. 2A (H319)	01-2119980040-48

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control centre or physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Prolonged skin contact may defat the skin and produce dermatitis.



4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

5.2. Special hazards arising from the substance or mixture

None known.

**Hazardous Combustion
Products**

Carbon oxides. Fluorinated oxides. Nitrogen oxides (NOx). Oxides of sulphur.

5.3. Advice for firefighters

Use personal protective equipment as required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labelled containers.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.



Product code 026700

Product name ANSULITE 3%
(AFC-3A) AFFF Concentrate

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General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)**Specific Use(s)**

Fire extinguishing agent.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	United Kingdom	France	Spain	Germany
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 67 mg/m ³ TWA: 10 ppm Ceiling / Peak: 15 ppm Ceiling / Peak: 100.5 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	Skin STEL: 100 mg/m ³ TWA: 50 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
2-(2-Butoxyethoxy)ethanol 112-34-5	STEL 15 ppm STEL 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101 mg/m ³ TWA: 10 ppm TWA: 67 mg/m ³	STEL: 100 mg/m ³ TWA: 67 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 102 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
Chemical name	Czech Republic	Russia	Hungary	Greece	Sweden
2-(2-Butoxyethoxy)ethanol 112-34-5	Ceiling: 100 mg/m ³ TWA: 100 mg/m ³	MAC: 10 mg/m ³	STEL: 101.2 mg/m ³ TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TLV: 10 ppm TLV: 68 mg/m ³ STEL: 15 ppm STEL: 101 mg/m ³

Derived No Effect Level (DNEL) No information available.**Predicted No Effect Concentration (PNEC)** No information available.**8.2. Exposure controls****Engineering controls** Ensure adequate ventilation, especially in confined areas.



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(AFC-3A) AFFF Concentrate

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Personal Protective Equipment

Eye/Face Protection

Avoid contact with eyes. Tight sealing safety goggles.

Hand protection

Wear protective gloves.

Skin and Body Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A filter or better.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Colour	Light yellow
Odour	Characteristic		
Odour Threshold	No data available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.5	
Melting Point / Freezing Point		No data available
Boiling point / boiling range	> 100 °C	
Flash Point	°C	No flash up to boiling point.
Evaporation Rate		No data available
Flammability (solid, gas)		No data available
Flammability limit in air		
Upper flammability limit:		No data available
Lower flammability limit:		No data available
Vapour Pressure		No data available
Vapour Density		No data available
Specific gravity		No data available
Water Solubility		No data available
solubility(ies)		No data available
Partition coefficient		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity	2.9 mm ² /s	
Dynamic viscosity		No data available
Explosive Properties	No data available	
Oxidising Properties	No data available	
VOC content (%)	9.21317	
Density	1.03	

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions



Product code 026700

Product name ANSULITE 3%
(AFC-3A) AFFF Concentrate

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None under normal processing.

Hazardous Polymerisation

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Fluorinated oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Inhalation	No data available.
Eye Contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	28,637.00 mg/kg
ATEmix (dermal)	30,928.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	
t-Butanol	= 2200 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 10000 ppm (Rat) 4 h
Formaldehyde	= 100 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h

Skin Corrosion/Irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitisation	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.

Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

SECTION 12: Ecological information



Product code 026700

/ Product name ANSULITE 3% /
(AFC-3A) AFFF Concentrate

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12.1. Toxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Do not re-use container.

SECTION 14: Transport information

IMDG

14.1 UN/ID no NOT REGULATED

14.2

Proper Shipping Name NOT REGULATED

14.3 Hazard class NOT REGULATED

14.4 Packing group NOT REGULATED

14.5

14.6 Special Provisions None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the No information available



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IBC CODE

RID

14.1 UN/ID no NOT REGULATED
14.2
Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

ADR

14.1 UN/ID no NOT REGULATED
14.2
Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

ICAO (air)

14.1 UN/ID no NOT REGULATED
14.2
Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

IATA

14.1 UN/ID no NOT REGULATED
14.2
Proper Shipping Name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special Provisions None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical name	French RG number	Title
2-(2-Butoxyethoxy)ethanol 112-34-5	RG 84	-

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work



Product code 026700

Product name ANSULITE 3%
(AFC-3A) AFFF Concentrate

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Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
2-(2-Butoxyethoxy)ethanol - 112-34-5	Use restricted. See item 55.	

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not Applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
ENCS	Does not comply
IECSC	Does not comply
KECL	Complies
PICCS	Does not comply
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision date 17-Sep-2019

Revision note 9, 16.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006



Product code 026700

/ **Product name** ANSULITE 3% /
(AFC-3A) AFFF Concentrate

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

ANSULITE 3% (AFC-3A) AFFF Concentrate

Description

ANSULITE 3% (AFC-3A) AFFF (Aqueous Film-Forming Foam) Concentrate is formulated from specialty fluorochemical and hydrocarbon type surfactants along with solvents. It is transported and stored as a concentrate to provide ease of use and considerable savings in weight and volume.

It is intended for use as a 3% proportioned solution in fresh, salt or hard water. It may also be used and stored as a 3% premixed solution in fresh or potable water only. The correct proportioning or mixture ratio is 3 parts concentrate to 97 parts water.

Three fire suppressing mechanisms are in effect when using ANSULITE 3% (AFC-3A) AFFF Concentrate. First, an aqueous film is formed which works to help prevent the release of fuel vapor. Second, the foam blanket from which the film-forming liquid drains effectively excludes oxygen from the fuel surface. Third, the water content of the foam provides a cooling effect.

TYPICAL PHYSIOCHEMICAL PROPERTIES AT 77 °F (25 °C)

Appearance	Colorless to Pale Yellow Liquid
Density	1.026 g/ml ± 0.020
pH	7.0 – 8.5
Refractive Index	1.3490 ± 0.0025
Surface Tension (3% Solution)	18 ± 1 dynes/cm
Viscosity	2.9 ± 1 centistokes

Application

ANSULITE 3% (AFC-3A) AFFF Concentrate is intended for use on Class B hydrocarbon fuel fires having low water solubility such as various crude oils, gasolines, diesel fuels, aviation fuels, etc. **It is not suitable for use on fuels having appreciable water solubility (polar solvents), i.e., methyl and ethyl alcohol, acetone, and methyl ethyl ketone.** It can be used with both aspirating and non-aspirating discharge devices because of the low energy required to make it foam.

The excellent wetting characteristics make it useful in combating Class A fires as well. It can be used with dry chemical suppressing agents without regard to the order of application to provide even greater fire protection capability.



009138

Fire Performance

ANSULITE 3% (AFC-3A) AFFF Concentrate has been tested to Underwriters Laboratories Standard 162. Reports covering this fire performance are available on request since standards and specifications such as those cited are continuously being upgraded and changed.

Foaming Properties

When used with fresh, salt, or hard water, at the correct dilution with most conventional foam making equipment, the expansion ratio will vary depending on the performance characteristics of the equipment. Aspirating discharge devices produce expansion ratios from 6:1 to 10:1 depending primarily on type of aspirating device and flow rate. Subsurface injection is a special case where generally expansion ratios of 2:1 to 3:1 are preferred but up to 4:1 is allowed. Non-aspirating devices such as handline water fog/stream nozzles or standard sprinkler heads give expansion ratios of 2:1 to 4:1.

Proportioning

ANSULITE 3% (AFC-3A) AFFF Concentrate can be easily proportioned (at the correct dilution) using most conventional proportioning equipment such as:

1. Balanced pressure and in-line balanced pressure pumped proportioning equipment
2. Balanced pressure bladder tank proportioners
3. Around-the-pump type proportioners
4. Fixed or portable (in-line) venturi type proportioners
5. Handline nozzles with fixed induction/pickup tubes

The usable temperature range for ANSULITE 3% (AFC-3A) AFFF Concentrate with this equipment is 35 °F to 120 °F (2 °C to 49 °C).

Storage/Shelf Life

When stored in the packaging supplied (polyethylene drums or pails) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of ANSULITE 3% (AFC-3A) AFFF Concentrate may exceed 20 years.

The factors affecting shelf life and stability for ANSULITE AFFF concentrates are discussed in detail in ANSUL® Technical Bulletin No. 54. If the product is frozen during storage or transportation, thawing will render the product completely usable. Gentle mixing after freeze-thaw cycle is recommended.

Compatibility

Refer to ANSUL Technical Bulletin No. 64 for a detailed discussion of compatibility.

Different types of foam concentrates, i.e., AFFF, protein base, etc., should not be mixed under any circumstances.

Materials of Construction Compatibility

Tests have been performed with ANSULITE 3% (AFC-3A) AFFF Concentrate verifying its compatibility with standard carbon steel “black” pipe and pipe manufactured from various stainless steel or brass compounds. Alternative pipe, fittings, and valves may be used in some cases if acceptable to the customer and/or the authority having jurisdiction. Refer to ANSUL Technical Bulletin No. 59 addressing acceptable materials of construction for use with ANSUL foam concentrates.

Galvanized pipe and fittings must not be used in areas where undiluted concentrate will contact them since corrosion will result.

Please **first** consult Tyco Fire Protection Products for specific guidelines concerning materials of construction.

Inspection

As with any fire suppressing agent, ANSULITE 3% (AFC-3A) AFFF Concentrate, whether in the concentrate or pre-mixed form, should be inspected periodically per requirements of NFPA 11 “Standard for Low-, Medium-, and High-Expansion Foam.” Annually submit samples to the manufacturer or a qualified laboratory for quality condition testing. Refer to the Field Inspection Manual (Part No. 31274) for detailed inspection procedures. An annual inspection is recommended unless unusual conditions of exposure occur such as described in ANSUL Technical Bulletin No. 54. In such cases, contact Tyco Fire Protection Products for more information.

Approvals and Listing

ANSULITE 3% (AFC-3A) AFFF Concentrate is approved, qualified under, listed or meets the requirements of the following specifications and standards:

Underwriters Laboratories Inc. – UL Standard 162

1. Foam Quality Tests
2. Class B Hydrocarbon Fuel Fire Tests
3. Foam Identification Tests
4. Tests of Shipping Containers
5. Class B Hydrocarbon Fuel Sprinkler Tests (Foam water and standard type both upright and pendent approvals)

Factory Mutual Research Corporation – Approval Guide

It is impractical to list ANSULITE 3% AFFF Concentrate with every piece of UL listed hardware. Moreover, there are numerous foam hardware components without UL listings that cannot be listed for use with any AFFF concentrate.

Many unlisted pieces of foam hardware should be similar to those listed. However, on installations where ANSULITE 3% (AFC-3A) AFFF Concentrate may be used with hardware components of significantly different types than those tested, contact Technical Services for recommendations.

Ordering Information

ANSULITE 3% (AFC-3A) Concentrate is available in pails, drums, totes, or bulk shipment.

Part No.	Description	Shipping	
		Weight	Cube
55800	Pail	45 lb	1.25 ft ³
	5 gal (19 L)	(20.4 kg)	(0.0353 m ³)
55809	Drum	495 lb	11.83 ft ³
	55 gal (208 L)	(224.5 kg)	(0.335 m ³)
431499	Tote	2465 lb	50.05 ft ³
	265 gal (1000 L)	(1118 kg)	(1.42 m ³)
26700	Bulk Order	Contact Technical Services	

Note: The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

ANSUL, ANSULITE, and the product names listed in this material are marks and/or registered marks. Unauthorized use is strictly prohibited.

Appendix D: Aherns Foam System Inspections



AHERN Fire Protection
 201 MORRIS COURT
 FOND DU LAC, WI 54936-1316
 (920) 921-9020 P • (920) 921-8666 F
 www.ahernfire.com • Since 1880

Foam System Inspection

Date:	10/1/2008
Work Order #:	891010
LID #:	3190321

Invoice To:	ROCKGEN ENERGY CENTER			Phone #:	(608) 423-9050
Street:	PO BOX 558	City:	CAMBRIDGE	State:	WI
Location:	ROCKGEN ENERGY CENTER (FOAM)		Dept.:		
Street:	2346 CLEARVIEW ROAD	City:	CAMBRIDGE	State:	WI
Phone #:	(608) 423-9050	Fax #:	(608) 423-9051	Foreman:	Andrew Skorkk <i>Matt Rosen</i>
Date:	10/1/08	Signature:	<i>[Signature]</i>		

System Type:	Foam Type:	Tank Mfg:
Deluge	Ansul	Ansul
Hazard Protected:	Tank Size and Type:	
Fuel Oil Tank	1000	

FOAM EQUIPMENT	Y	N	N/A
1 Is the foam tank in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Is the proportioner in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Is the concentrate control valve in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Is the concentrate piping in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Is the concentrate check valve in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Is the concentrate shut-off valve in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Was the Five-Year Check Valve Maintenance performed on the following items?

A. Ball Drip Drain Valves: Date due:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. Foam Concentrate Pumps: Date due:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. Balancing Valve Diaphragm: Date due:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D. Pressure Vacuum Valves: Date due:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Was the Ten-Year Maintenance performed on the following items:

A Foam Concentrate Tank? Date due:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B Sight Glass? Date due:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

FOAM CONCENTRATE	Y	N	N/A
1. Have Foam Concentrate samples been taken from the top and bottom of the tank for qualitative testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If No Explain: _____

Please Note: Results of Qualitative Testing will be forwarded to owner when complete.



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Foam System Inspection

Date:	10/1/2008
Work Order #:	891010
LID #:	3190321

Invoice To:	ROCKGEN ENERGY CENTER			Phone #:	(608) 423-9050
Street:	PO BOX 538	City:	CAMBRIDGE	State:	WI Zip: 53523-
Location:	ROCKGEN ENERGY CENTER (FOAM)		Dept:		
Street:	2346 CLEARVIEW ROAD	City:	CAMBRIDGE	State:	WI Zip: 53523
Phone #:	(608) 423-9050	Fax #:	(608) 423-9051	Foreman:	Andrew Skorkk <i>Math Poser</i>
Date:	<i>10/3/08</i>	Signature:	<i>[Signature]</i>		

FOAM SOLUTION CONCENTRATION

CALIBRATION CURVE

<i>See Attached</i>													
0%	0.5%	1.0%	1.5%	2.0%	2.5%	3.0%	3.5%	4.0%	4.5%	5.0%	5.5%	6.0%	6.5%

FOAM SOLUTION PERCENTAGE

CALIBRATION STANDARDS		TEST	SYSTEM	FLOW	REFRACTIVE INDEX	% FLOW SOLUTION
Sample	Refractive Index					
Foam Con.		1 - ●	<i>See Attached</i>			
Water		2 - ☒				
Pre-Mix 1	%	3 - □				
Pre-Mix 2	%	4 - ▲				
Pre-Mix 3	%	5 - ■				

DESIGN DENSITY: _____ AREA: _____ DESIGN FLOW: _____ DURATION: _____ FOAM CONCENTRATION: _____ %

APPROXIMATE QUANTITY OF FOAM CONCENTRATE IN TANK: _____

725 Before
 AFTER INSPECTION: 710 GAL
 FOAM REQUIRED: _____ GAL

SYSTEM COMMENTS:

- Vapor Seals not in place (are now in place) this was found with paper work Deep inside Foam Chamber also Orific plate was in there and not installed.
- There is a low point in piping that the customer would like a Drain installed at. (ERIC Jacobson has this location)

Orific Plate

Owner/Representative's Signature: _____

Date

[Signature]

10-3-08



FIRE PROTECTION

201 Murns Court, P.O. Box 1516
Fond du Lac, WI 54936 1316
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www.ahernfire.com

Foam Discharge Test Information

Field Information:

Customer: Rockten Energy Center
 Location: 1346 Cheyenne Rd.
 Proportioner Mfg/Part No. Ansul 4"
 GPM Sample was taken at: 750 Gpm

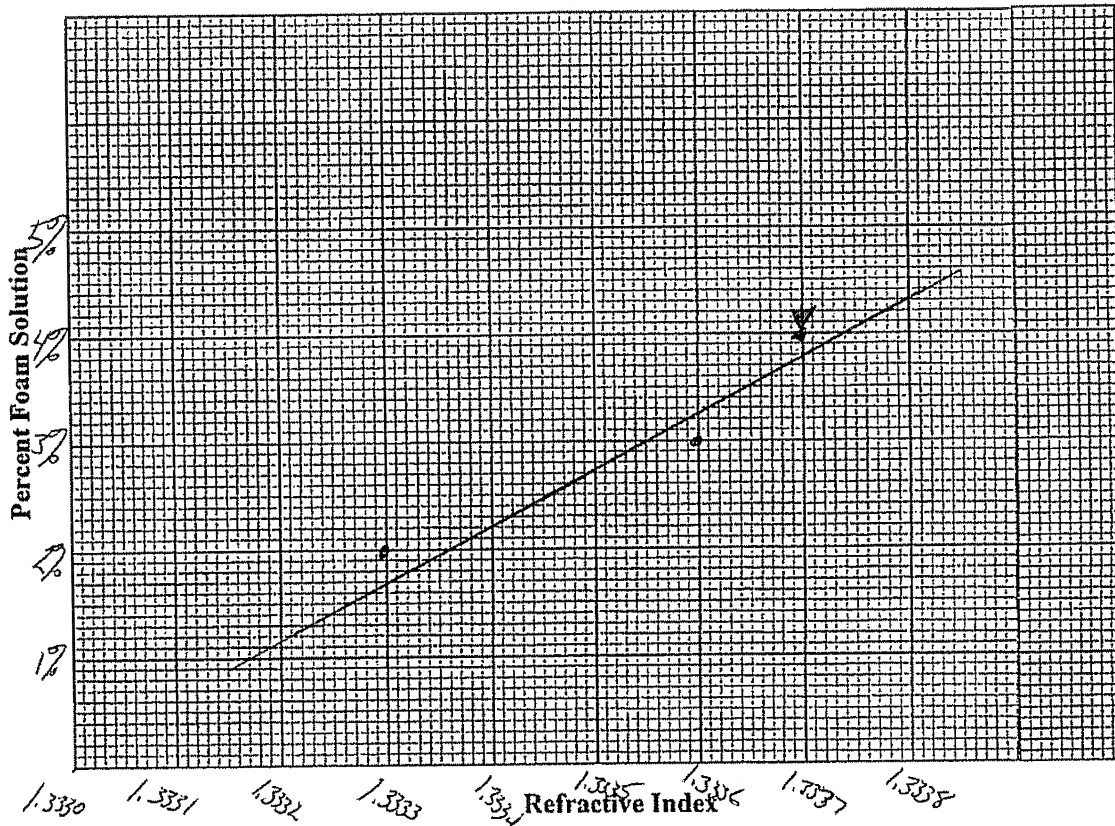
Date: 10/3/08
 Tested By: M. H. P.
 Foam Mfg/Type: Ansulite 3% AFFF
 Was foam visible: Yes No
 Visual Inspection of Concentrate: OK Suspect

Samples Req'd. 1 Pt. Concentrate 1 Qt. Customer Raw Water 1 Pt. Foam-Water Solution

Foam-Water Solution Evaluation:

Sample	Concentrate	Raw Water	Premix #1 (2%)	Premix #2 (3%)	Premix #3 (4%)	Foam-Water Test Sample
Refractive Index:		<u>1.3330</u>	<u>1.3333</u>	<u>1.3336</u>	<u>1.3337</u>	<u>1.3337</u>
Test Results Satisfactory	<input type="checkbox"/> Yes	<input type="checkbox"/> No				

Calibration Curve



Comments _____

Foam Sample Test Results

Report for:

Ahern Fire Protection
 Chris Indiraraj
 201 Morris Court, P.O. Box 1316
 Fond du Lac, WI 54936-1316

RE: Foam Sample Test Results - 7 Samples - PO#605289

For Service Call:
 (920) 921-9020

Job Number: 9116
 Number of Samples: 7
 Date Received: 01/05/2009
 Report Date: 01/12/2009
 Page: Page 1 of 7

Sample Information	Test Results				
	Test	Test Method	Specification	Test Value	Test Result
Sample Number: 1	Physical Properties				
Manufacturer: Ansul	Appearance	LBTR-3001	Colorless liquid; Pale-yellow liquid	Colorless liquid	In Spec
Product: Ansulite® AFC-3A	Refractive Index	ASTM D1218	1.3465-1.3640	1.3507	In Spec
Lot Number: Not Specified	Density Hydrometer, g/ml	ASTM E100	1.006-1.046	1.017	In Spec
Tank Type: Bladder Tank	pH	LBTR-3003	7.0-8.5	7.4	In Spec
Date Purchased: Not Specified	Performance Properties				
Type: 3% AFFF	Expansion, cc/g	NFPA Std 11	5.0 Minimum	6.3	Pass
Tank Number: 1 - RocGen	25% Drain Time, min:sec	NFPA Std 11	2:30 Minimum	3:20	Pass
Sampling Point: Top	Film Formation, sec.	LBTR-3020	60 Maximum	9	Pass
	Film Sealability	LBTR-3020	Flash or No Ignition	No Ignition	Pass
	Overall Result		Pass	Pass	Pass

Overall Result: Pass

Comments: This sample, tested as 3% aqueous film-forming foam (AFFF) concentrate for use at 3% on non-polar solvents only, passed the performance specifications and should perform as designed.



The results relate only to the sample tested and do not guarantee the system will operate properly.
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Sample Test Results

Report for:

Ahern Fire Protection - Fond du Lac
 Diana Dehnel
 201 Morris Court, P.O. Box 1316
 Fond du Lac, WI 54936-1316
 Calpine Rockgen PO# Credit Card

Job Number: 16441
 Number of Samples: 1
 Date Received: 10/19/2012
 Report Date: 10/24/2012
 Page: Page 1 of 1

For Service Call:
 (920) 921-9020

Sample Information

Sample Number: 1
 Manufacturer: Ansul
 Product: Ansulite® AFC-3A
 Lot Number: Not Specified
 Tank Type: Plastic Tank
 Date Purchased: Not Specified
 Type: 3% AFFF
 Tank Number: 1
 Sampling Point: Bottom

Test Results

NFPA 11 Standard for Low Expansion Foam

Test	Method (LBTR-)	Specification	Test Value	Test Result
Physical Properties				
Appearance	3001-E	Colorless liquid; Pale-yellow liquid	Pale-yellow liquid	In Spec
Refractive Index*	3006-C	1.3465-1.3515	1.3508	In Spec
Density, g/ml*	3004-C 3044-B	1.006-1.046	1.022	In Spec
pH*	3003-G	7.0-8.5	8.7	Out of Spec
Performance Properties				
Expansion, cc/g*	3020-R	5.0 Minimum	6.4	Pass
25% Drain Time, min:sec*	3020-R	2:30 Minimum	3:05	Pass
Film Formation, sec*	3020-R	60 Maximum	9	Pass
Film Sealability*	3020-R	Flash or No Ignition	No Ignition	Pass
Overall Result		Pass	Pass	Pass

Overall Result Pass

Opinions and Interpretations: This sample, tested as 3% aqueous film-forming foam (AFFF) concentrate for use at 3% on non-polar solvents only, passed the performance specifications and should perform as designed.

The pH is outside of the specification for newly manufactured foam, however a pH within the range of 6 to 9.5 is considered acceptable for field foam.

Jody A. Lowe

Jody Lowe, Laboratory Analyst



*This test was done in accordance with ISO 17025, General Requirement for the Competence of Testing Laboratories. Sampling plan and uncertainty values available upon request. The results relate only to the sample tested and do not guarantee the system will operate properly. This report shall not be reproduced except in full, without the written consent of Dyne Technologies, LLC.





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www.jfahern.com

November 3, 2014

Mr. Shawn Bohannan
Calpine - Rockgen Energy Center
2346 Clearview Road
Cambridge, WI 53523
T-608/423-9058
F-608/423-9051
Email: sbohannan@calpine.com

RE: FOAM INSPECTION RESULTS FROM OCTOBER 2014

Dear Mr. Bohannan:

This letter will summarize the results of the foam system inspection of the fuel oil foam system. Enclosed you will find copies of the foam quality analysis results, and certification placard. The placard provided can be displayed at the foam tank.

Functional testing of the foam system components was completed with no discrepancies noted (see attached report).

This system was placed back into service prior to our departure.

Thank you for your cooperation in this matter, and please contact me should you require further information. I can be reached via phone at 920-907-5579 or via email at bpoehle@ahernfire.com.

Respectfully Submitted,

AHERN FIRE PROTECTION

A division of J. F. Ahern Co.

Brandon Poehlein
Special Hazards Service Department Manager

Sample Test Results

Report for:

Ahern Fire Protection - Fond du Lac
 Stephanie Urbanski
 201 Morris Court, P.O. Box 1316
 Fond du Lac, WI 54935
 Calpine Rockgen 120074

For Service Call:
 (920) 921-9020

Job Number: 21380
 Number of Samples: 1
 Date Received: 10/17/2014
 Report Date: 10/22/2014
 Page: Page 1 of 1

Sample Information

Sample Number: 1
 Manufacturer: Ansul
 Product: AFC-3A
 Lot Number: Calpine Rockgen Energy Ce
 Tank Type: Plastic Tank
 Date Purchased: Not Specified
 Type: 3% AFFF
 Tank Number: 1
 Sampling Point: Bottom

Test Results

NFPA 11 Std. for Low Expansion Foam ONLY USE IN LISTED SYSTEMS AND APPLICATIONS

Test	Method (LBTR-)	Specification	Test Value	Test Result
Physical Properties				
Appearance	3001-G	Colorless liquid; Pale-yellow liquid	Amber liquid	In Spec
Refractive Index*	3006-D	1.3465-1.3515	1.3510	In Spec
Density, g/ml*	3044-G	1.006-1.046	1.013	In Spec
pH*	3003-K	6.00-9.50	7.05	In Spec
Performance Properties				
Expansion, cc/g*	3020-Y	4.5 Minimum	6.2	Pass
25% Drain Time, min:sec*	3020-Y	2:30 Minimum	3:56	Pass
Surface Tension, dynes/cm*	3039-F	Not Specified	15.8	Pass
Interfacial Tension, dynes/cm*	3039-F	Not Specified	1.4	Pass
Spreading Coefficient*	3039-F	0 Minimum	7.8	Pass
Overall Result		Pass	Pass	Pass

Overall Result Pass

Opinions and Interpretations: This sample, tested as 3% aqueous film-forming foam (AFFF) concentrate for use at 3% on non-polar solvents only, passed the performance specifications and should perform as designed. For further explanation, see LBTR-4054 (Foam) or LBTR-4057 (Antifreeze).



Kayla Kuhlman, Chemist



*This test was done in accordance with ISO 17025, General Requirement for the Competence of Testing Laboratories. Sampling plan and uncertainty values available upon request. The results relate only to the sample tested and do not guarantee the system will operate properly. This report shall not be reproduced except in full, without the written consent of Dyne Technologies, LLC.





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www.jfahern.com

October 20, 2015

Shawn Bohannon
Calpine- Rockgen Energy Center
2346 Clearview Road
Cambridge, WI 53523
T: 608/423-9051
E: sbohannon@calpine.com

RE: FOAM INSPECTION RESULTS FROM OCTOBER 2015

Dear Shawn:

This letter will summarize the results of the foam system inspection of the fuel oil foam system. Enclosed you will find copies of the foam quality analysis results, and certification placard. The placard provided can be displayed at the foam tank.

Functional testing of the foam system components was completed with no discrepancies noted (see attached report).

This system was placed back into service prior to our departure.

Thank you for your cooperation in this matter, and please contact me should you require further information. I can be reached via phone at 920-907-5579 or via email at bpoehlein@ahernfire.com.

Respectfully Submitted,

AHERN FIRE PROTECTION

A division of J. F. Ahern Co.

Brandon Poehlein
Special Hazards Service Department Manager

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Sample Test Results

Report for: Ahern Fire Protection - Fond du Lac
 Stephanie Nobles
 201 Morris Court, P.O. Box 1316
 Fond du Lac, WI 54935
 Calpine Rockgen WO 164786

Job Number: 24108
Number of Samples: 1
Date Received: 10/14/2015
Report Date: 10/16/2015
Page: Page 1 of 1

For Service Call:
 (920) 921-9020
 (800) 532-4376

Sample Information

Sample Number: 1
 Manufacturer: Ansul
 Product: AFC-3A
 Lot Number: Calpine Rockgen
 Tank Type: Plastic Tank
 Date Purchased: Not Specified
 Type: 3% AFFF
 Tank Number: 1 Fuel Oil Tank
 Sampling Point: Composite

Test Results NFPA 11 Std. for Low Expansion Foam ONLY USE IN LISTED SYSTEMS AND APPLICATIONS

Test	Method (LBTR-)	Specification	Test Value	Test Result
Physical Properties				
Appearance	3001-G	Colorless liquid; Pale-yellow liquid	Clear liquid	In Spec
Refractive Index*	3006-E	1.3465-1.3515	1.3510	In Spec
Density, g/ml*	3044-I	1.006-1.046	1.013	In Spec
pH*	3003-L	6.00-9.50	7.03	In Spec
Performance Properties				
Expansion, cc/g*	3020-AE	4.5 Minimum	7.3	Pass
25% Drain Time, min:sec*	3020-AE	2:30 Minimum	4:24	Pass
Film Formation, sec*	3020-AE	60 Maximum	10	Pass
Film Seal on Cyclohexane*	3020-AE	Flash or No Ignition	No Ignition	Pass
Overall Result		Pass	Pass	Pass

Overall Result Pass

Opinions and Interpretations: This sample, tested as 3% aqueous film-forming foam (AFFF) concentrate for use at 3% on non-polar solvents only, passed the performance specifications and should perform as designed. For further explanation, see LBTR-4054 (Foam) or LBTR-4057 (Antifreeze).

Jody A. Lowe

Jody Lowe, Laboratory Analyst



*This test was done in accordance with ISO 17025, General Requirement for the Competence of Testing Laboratories. Sampling plan and uncertainty values available upon request. The results relate only to the sample tested and do not guarantee the system will operate properly. This report shall not be reproduced except in full, without the written consent of Dyne Technologies, LLC.





201 Morris Court | P.O. Box 1316
 Fond du Lac, WI 54936-1316
 main 920.921.9020 | fax 920.921.8666
 www.jfahern.com

Special Hazards Inspection Annual

Work Order : 1215746
 Agreement : 15931
 Inspection Date : 11/02/2018
 Customer PO: RG020 2000000352

Inspection Location

Calpine-Rockgen Energy Center 2346 Clearview Road Cambridge WI 53523	Contact:	Joseph Evans
	Cell #:	0
	Phone #:	(608) 423-9053
	E-Mail:	joseph.evans@calpine.com
	Cust ID:	1231
	Loc ID:	002

Bldg/Owner Questions SH			
	Qty: 1	Status: Complete	Eq ID: 80

Question	Result
10 Do the size, occupancy, and configuration of all protected hazards comply with construction documents?	Yes
20 Has the system remained in service without modification since the last inspection?	Yes
30 Was the system free of actuation of devices, alarms, or fires since the last inspection?	Yes
60 Were all systems left in operational condition, actuating devices reset and in place, and pictures taken?	Yes
80 Current fire alarm service company? (if Ahern answer N/A)	Unknown
90 Fire alarm panel manufacturer?	Unknown
100 Fire alarm panel model?	Unknown
110 Photo of last fire alarm inspection report	

Heat Detect - Restorable Spot	111 - Deluge SH System		
	Qty: 1	Status: Complete	Eq ID: 114
Manufacturer ID	Fenwal		
Temp Rating	325		

Question	Result
10 Did all devices pass visual inspection?	Yes
20 Did device pass function test per Manufacturers requirements?	Yes

Notification Appliances	111 - Deluge SH System		
	Qty: 1	Status: Complete	Eq ID: 112
Manufacturer ID	Potter		
Type of Device	Bell		
Number of Circuits			

Question	Result
10 Did all devices pass visual inspection?	Yes
20 Did all devices operate properly when tested?	Yes
30 Do device candela ratings, layout, and location match the approved drawings if available?	NA
40 If occupancy or conditions have changed, were sound pressure levels tested to confirm they conform with occupancy types and ambient sounds?	NA

SH Manual Alarm - Release	111 - Deluge SH System		
	Qty: 1	Status: Complete	Eq ID: 115
Manufacturer ID	Protectowire		

Question	Result
10 Did all devices pass visual inspection?	Yes
20 Did the manual fire alarm/releasing stations pass operational test?	Yes

Release Control Panel	111 - Deluge SH System		
	Qty: 1	Status: Complete	Eq ID: 116
Manufacturer ID	Potter		
Model ID	PFC-4410		

Location In Building	Fuel Oil Tank / Fire Pump Room
Customer System ID	

	Question	Result
10	Was the off-premises monitoring location contacted prior to beginning test?	Yes
20	Did the panel functions comply with the desired sequence of operations?	Yes
30	Are batteries free of corrosion and leakage and all connections tight?	Yes
40	Record battery #1 voltage.	13
50	Record battery #1 load test results.	8
60	Record battery #2 voltage.	13
70	Record battery #2 load test results.	8
120	Did batteries pass charger test, discharge test, and load voltage test?	Yes
130	Did system operate properly on standby power?	Yes
140	Was the off-premises monitoring location contacted to notify them of test completion and verify proper receipt of all signals?	Yes
150	Are all lamps and LED's operational?	Yes
160	Were all alarm, supervisory, and trouble signals received?	Yes
170	Are all fuses intact and rated properly?	Yes
180	Does the open circuit and ground fault monitoring function properly?	Yes
200	Did release solenoid operate properly?	Yes
210	Did actuator release circuit operate properly?	NA
230	Did predischage time delay operate properly?	NA
250	Did discharge timer operate properly?	NA
270	Record input voltage.	118
280	Record charger voltage.	27
290	Record battery date.	2018-11-02

Foam Concentrate Pump & Tank	117 - Foam System		
	Qty: 1	Status: Complete	Eq ID: 120
Manufacturer ID	Ansul		
Tank Size	1000		
P/N or NB Number	20-420-9924 UR		
Concentrate Manufacturer	Ansul		
Concentrate Type	3% AFFF		
Pump Manufacturer	Ansul		
Pump Model	20-420-9924 UR		

	Question	Result
10	Is tank free from external corrosion and damage?	Yes
20	What is the measured quantity of concentrate?	530
30	Does pressure vacuum vent operate freely?	Yes
40	Are all gauges in good operating condition?	Yes
50	Are all pump sensing lines open?	Yes
60	Have concentrate strainer screens been removed and inspected after each operation or flow test?	Yes
70	Was the concentrate pump operated and concentrate circulated back to tank?	Yes
80	Has concentrate pump been serviced per manufacturers requirements within the last 5 years?	Yes
90	Was a concentrate sample taken for laboratory analysis?	Yes
100	Date of last internal inspection and cleaning of pressure vacuum vent?	2015-10-08
110	Date that concentrate tank was last internally inspected for corrosion and sediment?	2015-10-08
120	Were the results of the foam laboratory analysis satisfactory?	Unknown - results pending

Foam Atmospheric Tank	117 - Foam System		
	Qty: 1	Status: Complete	Eq ID: 118
Manufacturer ID	Ansul		
Tank Size	1000		
P/N or NB Number	1000		
Concentrate Manufacturer	Ansul		
Concentrate Type	3% AFFF		

	Question	Result
--	----------	--------

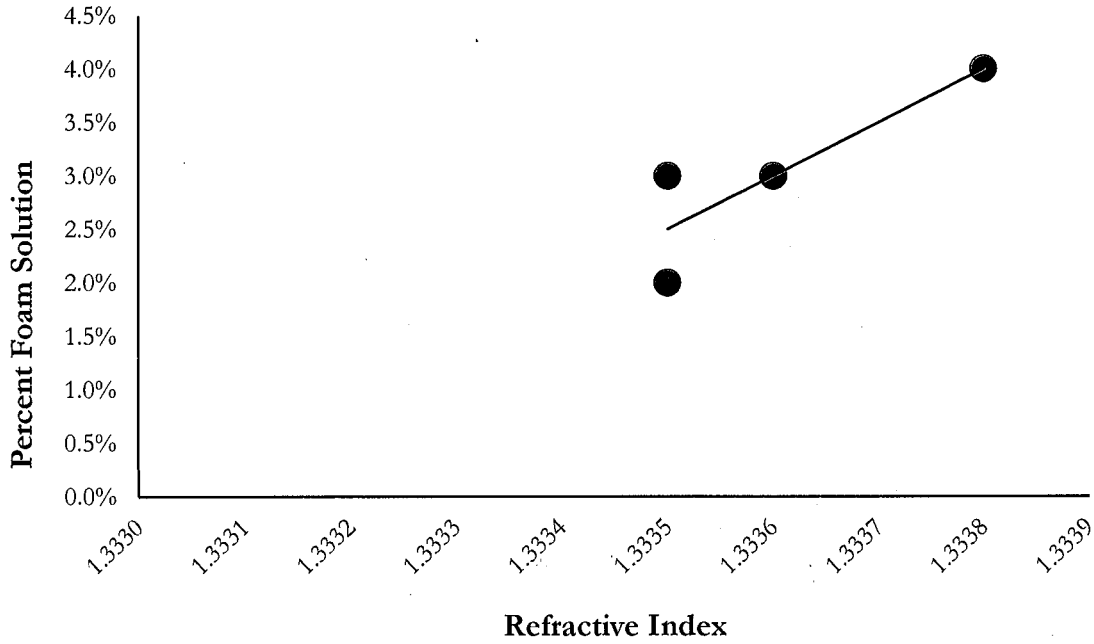
10	Is tank free from external corrosion and damage?	Yes
20	What is the measured quantity of concentrate?	530
30	Does pressure vacuum vent operate freely?	Yes
40	Have concentrate strainer screens been removed and inspected after each operation or flow test?	Yes
50	Was a concentrate sample taken for laboratory analysis?	Yes
60	Date of last internal inspection and cleaning of pressure vacuum vent?	2015-10-08
70	Date that concentrate tank was last drained, flushed, and internally inspected for corrosion?	NA
80	Date that concentrate tank pickup tubes were last inspected for corrosion?	NA
90	For standard pressure type proportioners, date that concentrate tank was last hydrostatically tested?	NA

Foam Proportioner - Piping	117 - Foam System		
	Qty: 1	Status: Complete	Eq ID: 121
Manufacturer ID	Ansul		
Proportioner Type	Between the Flange		
Proportioner Size	4"		
Proportioner P/N	69351		

	Question	Result
10	Are all valves in the proper open or closed position?	Yes
20	Are all discharge devices in place, free of external loading and corrosion, and aimed in the direction intended?	Yes
30	Did the system respond as intended during operational test?	Yes
40	Were discharge patterns free from obstructions?	Yes
130	GPM being flowed when sample was taken?	350
145	Required solution percentage?	3.0
150	Were the test results satisfactory?	Yes

Foam Solution Concentration

System: Fuel Oil Tank



System	Foam Concentrate	Water	Premix #1 2	Premix #2 3	Premix #3 4	Foam-Water Test Sample
Fuel Oil Tank	1.3511	1.3330	1.3335 / 2.0 %	1.3336 / 3.0 %	1.3338 / 4.0 %	1.3335 / 3.0 %

Deficiency Recap:

No Deficiencies Found

Additional Notes:


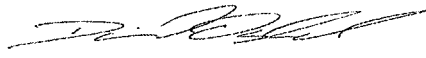
No Additional Notes

NOTES:

Any backflow preventers tested as part of this inspection were tested in accordance with all applicable state rules and regulations and all readings are true and accurate to the best of my knowledge.

Any comments or findings in this inspection report are not in any way to be considered a fire protection engineering review.

All fire protection system inspection and testing, as contracted with Customer is performed to the following NFPA codes and editions (listed as code-edition); 10 - 2013, 11 - 2005, 12 - 2008, 12A - 2004, 16 - 2007, 17 - 2013, 17A - 2013, 25 - 2011, 72 - 2010, 96 - 2014, 409 - 2011, 750 - 2006, 1962 - 2013, 2001 - 2008 and Life Safety 101 (Chapter 7) - 2012.

Inspection Contractor: AFP Fire Systems & Equipment 201 Morris Court Fond du Lac, WI 54935-1316			
Building Owner or Authorized Representative:			
Technician:			
Signature:		Signature:	
Name:	Joseph Evans	Name:	David S Oshel
		License #:	
Date:	11/03/2018	Date:	11/02/2018

An experienced Fire Protection professional will be contacting you shortly to discuss how we might help eliminate any deficiencies identified in this inspection.

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Appendix E: Well Construction Records and Septic System Details

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				KS116		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A		
Property Owner ROCK GLEN 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 CLEAR VIEW RD						
County Dane	Co. Permit #	Notification #		Completed 11-11-2000		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 GPS008			
Address 21500 W GOOD HOPE RD LANNON WI 53046-9720			Well Plan Approval #		SW NW Section Township Range or Govt Lot # 23 6 N 12 E		2. Well Type New Well		KS122 replaces this well			
			Approval Date (mm-dd-yyyy) 04-13-2000		Reason for replaced or reconstructed well ?		of previous unique well #		constructed in			
Hicap Permanent Well # 2352		Common Well # 001		Specific Capacity		Reason for replaced or reconstructed well ?						
3. Well serves # of POWER PLANT				Hicap Well ? Yes		Heat Exchange ___ # of drillholes		Hicap Property ? Yes				
				Hicap Potable ?		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			
18	Surface	516	Rotary - Mud Circulation							LIMESTONE BRN, HARD SOME SANDSTONE LAYERS	Surface	70
12	516	1110	<u>Yes</u> Rotary - Air		<u>No</u>	-	-	N	H	SANDSTONE ORANGE TO WHITE W/SHALE LAYERS	70	135
			<u>Yes</u> Rotary - Air & Foam		<u>No</u>	G	-	L	H	DOLOMITE, GRAY W/SHALE & SANDSTONE LAYER	135	215
			Drill-Through Casing Hammer			-	-	N	-	SANDSTONE, MULTI COLOR	215	1100
			<u>Yes</u> Reverse Rotary			-	-	Q	-	GRANITE	1100	1110
			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.)	82 ft. below ground surface			24 in. above grade			
18	CASING STEEL 70.6# A53B NKK WELDED			Surface	10	10. Pump Test			Developed ? Yes			
12	CASING STEEL 49.5# A53B NKK WELDED			0	516	Pumping level ___ ft. below surface			Disinfected ? Yes			
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping at ___ GP for ___ Hrs.			Capped ? Yes			
	N/A					Pumping Method ?						
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?						
Method BRADENHEAD						Filled & Sealed Well(s) as needed? No						
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		BUT WE WILL						
CEMENT GROUT		Surface	516	512 S								
13. Constructor / Supervisory Driller						Lic #	Date Signed					
WC							12-19-2000					
Drill Rig Operator						Lic or Reg #	Date Signed					
CGM							01-02-2001					

4a. Potential Contamination Sources

Is the well located in floodplain ?

Type	Qualifier	Distance
Other Contamination Sources		65

Comment: LTR SENT 01/22/2001 REGARDING THIS WELL WILL BE ABANDONED - TO CLOSE TO BURIED FUEL LINE

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Abandonment Type	Abandonment Date	Procedure	Reason
Permanent	05/21/2001	SAND-CEMENT GROUT 0-470' 14 USED; 3/4" COARSE CHIPPED BENTONITE 470- 536' 70 BAGS USED; WASHED CHLORINATED PEA ROCK 536-1110' 17 1/2 YARDS USED	TOO CLOSE TO FUEL STORAGE TANK

Created On: 06-26-2001 Created by: WELL CONST LOAD Updated On: 07-19-2001 Updated by: HERSHS

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				KS117		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A			
Property Owner ROCK GLEN 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 11-11-2000		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 GPS008			
Address 21500 W GOOD HOPE RD LANNON WI 53046-9720				Well Plan Approval #		SW	NW	Section 23	Township 6 N	Range 12 E			
				Approval Date (mm-dd-yyyy) 08-02-2000		2. Well Type New Well			KS121 replaces this well				
Hicap Permanent Well # 3042		Common Well # 003		Specific Capacity 15.6		of previous unique well #					constructed in		
3. Well serves # of OFFICE @ POWER PLANT		Hicap Well ?		Yes		Reason for replaced or reconstructed well ?							
Heat Exchange ___ # of drillholes		Hicap Property ?		Yes		Construction Type							
		Hicap Potable ?											
4. Potential Contamination Sources - ON REVERSE SIDE													
5. Drillhole Dimensions and Construction Method						Geology Codes			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									Surface	70
6	100	215	<u>Yes</u> Rotary - Air		<u>No</u>				N	H		70	135
			<u>Yes</u> Rotary - Air & Foam		<u>No</u>		G	-	L	H		135	215
			Drill-Through Casing Hammer				DOLOMITE, GRAY W/SHALE & SANDSTONE LAYER						
			<u>Yes</u> 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.)	82 ft. below ground surface			24 in. above grade				
10	CASING STEEL 40.5# A53B NKK WELDED			Surface	70	10. Pump Test			Developed ? Yes				
6	CASING STEEL A53B NKK WELDED			0	100	Pumping level 86.8 ft. below surface			Disinfected ? Yes				
Dia. (in.)		Screen type, material & slot size		From (ft.)	To (ft.)	Pumping at 75 GP M for 4 Hrs.			Capped ? Yes				
		N/A				Pumping Method ?							
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?							
Method TREMIE						Filled & Sealed Well(s) as needed? No							
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		BUT WE WILL							
CEMENT GROUT		Surface	100	62 S									
13. Constructor / Supervisory Driller						Lic #		Date Signed					
WC								12-19-2000					
Drill Rig Operator						Lic or Reg #		Date Signed					
LM								01-04-2001					

4a. Potential Contamination Sources

Is the well located in floodplain ?

Type	Qualifier	Distance
Other Contamination Sources		15

Comment: LTR SENT 01/22/2001 REGARDING WELL WILL BE ABANDONED - TO CLOSE TO BURIED FUEL LINE

Water Quality Text:

Water Quantity Text:

Difficulty Text:

Abandonment Type	Abandonment Date	Procedure	Reason
Permanent	04/26/2001	BENTONITE CHIPS TO 215' 60 BAGS USED	TO CLOSE TO BURIED FUEL LINE

Created On: 06-26-2001 Created by: WELL CONST LOAD Updated On: 07-19-2001 Updated by: HERSHS

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				KS120				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				Street Address or Road Name and Number ENTER OFF OF CLEAR VIEW RD															
City NORTHBROOK		State IL		Zip Code 60062		Subdivision Name				Lot #		Block #											
County Dane		Co. Permit #		Notification #		Completed 04-02-2001		Latitude / Longitude in Decimal Degree (DD)				Method Code											
Well Constructor (Business Name) C T W CORP				Lic. # 364		Facility ID # (Public Wells)		°N		°W		GPS008											
Address 21500 W GOOD HOPE RD LANNON WI 53046-9720				Well Plan Approval #		Approval Date (mm-dd-yyyy) 04-13-2000		SW NW Section Township Range		or Govt Lot #		23 6 N 12 E											
Hicap Permanent Well # 2353		Common Well # 002		Specific Capacity 9.2		2. Well Type New Well				of previous unique well # constructed in													
3. Well serves # of POWER PLANT				Hicap Well ? Yes		Reason for replaced or reconstructed well ?				ORIGINAL TOO CLOSE TO FUE													
Heat Exchange ___ # of drillholes				Hicap Property ?		Construction Type Drilled																	
Hicap Potable ?																							
4. Potential Contamination Sources - ON REVERSE SIDE																							
5. Drillhole Dimensions and Construction Method																							
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole				Lower Open Bedrock		Geology Codes		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)		To (ft.)					
24		Surface		70		Rotary - Mud Circulation						T H L N		LIMESTONE BROWN, HARD SOME SANDSTONE LAYERS		Surface		55					
18		70		514		Yes Rotary - Air				No		- - N Q		SANDSTONE ORANGE TO WHITE W/SHALE LAYERS		55		130					
12		514		1043		Rotary - Air & Foam						- L H -		DOLOMITE GRAY W/SHALE LAYERS & SANDSTONE		130		180					
						Drill-Through Casing Hammer						- - N -		SANDSTONE MULTI COLOR		180		1030					
						Reverse Rotary						- - Q -		GRANITE		1030		1043					
						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 44.5# A53B				0		514		Pumping level 175 ft. below surface						Disinfected ? Yes							
Dia. (in.)		Screen type, material & slot size				From (ft.)		To (ft.)		Pumping at 600 GP M for 24 Hrs.						Capped ? Yes							
										Pumping Method ?													
7. Grout or Other Sealing Material												12. Notified Owner of need to fill & seal ?											
Method GROUT SHOE												Filled & Sealed Well(s) as needed? No											
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement		BUT WE WILL															
CEMENT GROUT		Surface		514		351 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				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						Town of CHRISTIANA						Street Address or Road Name and Number				ENTER OFF OF CLEAR VIEW RD							
City NORTHBROOK				State IL		Zip Code 60062				Subdivision Name				Lot #		Block #							
County Dane		Co. Permit #		Notification #		Completed				Latitude / Longitude in Decimal Degree (DD)				Method Code									
Well Constructor (Business Name) C T W CORP						Lic. # 364		Facility ID # (Public Wells)				°N		°W		GPS008							
Address 21500 W GOOD HOPE RD LANNON WI 53046-9720						Well Plan Approval #				SW		NW		Section		Township		Range					
Hicap Permanent Well # 3062						Common Well # 005		Specific Capacity 10				or Govt Lot #		23		6 N		12 E					
3. Well serves # of OFFICE TO POWER PLANT						Hicap Well ? No				2. Well Type Replacement				of previous unique well # KS117 constructed in 2001									
Heat Exchange ___ # of drillholes						Hicap Property ? Yes				Reason for replaced or reconstructed well ?				ORIGINAL TOO CLOSE TO FUE									
						Hicap Potable ?				Construction Type Drilled													
4. Potential Contamination Sources - ON REVERSE SIDE																							
5. Drillhole Dimensions and Construction Method																							
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole				Lower Open Bedrock				Geology Codes		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...				From (ft.)		To (ft.)	
10		Surface		100		Rotary - Mud Circulation								T H L N		LIMESTONE, BROWN, HARD, SOME SANDSTONE				Surface		70	
6		100		215		<u>Yes</u> Rotary - Air				<u>No</u>				-		- N H SANDSTONE ORANGE TO WHITE W/SHALE LAYERS				70		135	
						Rotary - Air & Foam								G		- L H DOLOMITE GRAY W/SHALE LAYERS				135		215	
						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																							
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly				From (ft.)		To (ft.)		9. Static Water Level				11. Well Is									
6		CASING, STEEL, 20.9# A53B, NKK, WELDED				Surface		100		59.5 ft. below ground surface				24 in. above grade									
Dia. (in.)		Screen type, material & slot size				From (ft.)		To (ft.)		10. Pump Test				Developed ? Yes									
										Pumping level 67 ft. below surface				Disinfected ? Yes									
										Pumping at 75 GP M for 4 Hrs.				Capped ? Yes									
										Pumping Method ?													
7. Grout or Other Sealing Material																							
Method TREMIE PUMPED																							
Kind of Sealing Material				From (ft.)		To (ft.)		# Sacks Cement				12. Notified Owner of need to fill & seal ?											
CEMENT GROUT				Surface		100		87 S				Filled & Sealed Well(s) as needed? No											
BUT WE WILL																							
13. Constructor / Supervisory Driller																							
WAC												Lic #		Date Signed									
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					City NORTHBROOK		State IL		Zip Code 60062		Town of CHRISTIANA			
County Dane					Co. Permit #		Notification #		Completed 05-21-2001		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 # 3061					Common Well # 004		Specific Capacity 8.5		Reason for replaced or reconstructed well ? U					
3. Well serves # of POWER PLANT					Hicap Well ? Yes		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						Geology Codes			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	Pumping level 190 ft. below surface			Developed ? Yes					
12	CASING STEEL 49.5# A53B WELDED			0	514	Pumping at 680 GP M for 24 Hrs.			Disinfected ? Yes					
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping Method ?			Capped ?					
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?								
Method GROUT SHOE						Filled & Sealed Well(s) as needed?						Yes		
Kind of Sealing Material			From (ft.)	To (ft.)	# Sacks Cement	13. Constructor / Supervisory Driller			Lic #		Date Signed			
CEMENT GROUT			Surface	514	456 S	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

DANE COUNTY HUMAN SERVICES DEPARTMENT
 ENVIRONMENTAL HEALTH DIVISION

DB 3651
 TAM 43487

Owner Rockegen OL-4 LLC ~~TOM CARPENTER - GE POWER SYSTEMS~~ Parcel No. 08-0612-232-4000-2
~~08-0612-232-8500-2~~

Mailing Address 20 TECHNOLOGY PARKWAY P.O. Box 558 Cambridge

Property Address 489 WOSHKONONG RD. 2350 CLEARVIEW

Subdivision/CSM 77.7 Acre Parcel Lot _____ Block _____

Section 23 NW 1/4 NW 1/4

Township/City Christiana

5/27/99 Returnbd Soil & Site Evaluation to W. Steinke - \$106.00 fee retained.

6/7/99 Write report to W. Steinke - hole closure notice to owner.

7/23/99 Issued Sanitary permit MOUND SYS. 346490/99-0431
 TAM letter to owner

8/19/99 Rec'd call from construction company - question was could they
 have habitable trailers on site for duration of construction (approx
 1 yr). They would need to obtain approval from Town & Co zoning (or)
 then either connect to p.ss. or get approval for temp holding tank.
 If more than 1 unit, would also need campground or MHP permit, JPC

9-12-00 Spoke to JOE SMITH - ENV. HEALTH & SAFETY MGR ON SITE
 (423-7750) ABOUT TEMP. H.T. (S) MAIL: P.O. BOX 586
 CAMBRIDGE (S)

1-3-01 SEPTIC TANK & PUMP CHAMBER INSTALLED BY FRANKS EXC (S)

5-2-01 AT SITE TO CHECK SOIL MOISTURE 1:00 PM OK (S)

5/10/01 Sanitary permit renewal notice sent

5-14-01 SOIL CHECK - OK, MOUND STAB (S)

5-15-01 am MOUND PLOWED, SAND PLACED, F.M. COMPLETED, PIPS DRILLED,
 STONE PLACED, LAT. INSTALLED, & COVER. P.M. FINN GRASS, 8000 PSI
 STRAW MULCH - OK (S) USED BY JAMES BY SEWERS BLDG. (S)

7/15/04 TAM follow up sent

8/10-04 Rec'd TAM fee ch 10 3743

Placed on 5/1/04 recall
 Placed on 5/07/04 recall

ON SITE SEWAGE SYSTEM
INSPECTION REPORT

County: DANE

Sec. 23 CHRISTIANA

- CONVENTIONAL AT-GRADE IN-GROUND PRESSURE MOUND HOLDING TANK
 EXPERIMENTAL NEW REPLACEMENT RECONNECTION OTHER (SPECIFY)

Permit Holder's Name: <u>GE POWER SYSTEMS</u>	Permit Holder's Address: <u>2350 CLEARVIEW RD. CAMBRIDGE</u>	Inspection Date: <u>5-15-01 / 1-3-01</u>
Bench Mark, Describe If Different From Plan: <u>BOTTOM OF SIDING PANEL ON SERVICE BLDG.</u>	Parcel Tax I.D. No. (Optional)	Ref. Pt. Elev.: <u>89.44</u> CST Ref. Pt. Elev.:
Plumber's Name: <u>WM. T. STEINKE</u>	MP/MPSRW No.: <u>227999</u>	State Plan ID No. (If Assigned): Sanitary Permit Number: <u>346490/99-0431</u>

SEPTIC TANK/HOLDING TANK:

Manufacturer: <u>CROSS ZCOMP</u>	Liquid Capacity: <u>1600</u>	Tank Inlet Elev.: <u>85.07</u>	Tank Outlet Elev.: <u>81.84</u>	Warning Label Provided: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Locking Cover Provided: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Bedding: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Vent Dia.: <u>4"</u>	Vent Mat'l.: <u>PVC</u>	High Water Alarm: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NUMBER OF FEET FROM NEAREST →	Road: <u>>10'</u>	Property Line: <u>>50'</u>	Well: <u>>50'</u>	Building: <u>>5'</u>	Air Vent:

DOSING CHAMBER:

Manufacturer: <u>CROSS</u>	Bedding: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liquid Capacity: <u>821</u>	Pump Model: <u>98</u>	Pump/Siphon Manufacturer: <u>ZOELLER</u>	High Water Alarm: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Warning Label Provided: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Locking Cover Provided: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Gallons Per Cycle: (difference between pump on and off) <u>137 ±</u>	Pump and Controls Operational: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NUMBER OF FEET FROM NEAREST →	Property Line: <u>>50'</u>	Well: <u>750'</u>	Building: <u>>25'</u>	Air Vent: <u>>25'</u>	
VENT	Vent Installed: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Vent Diameter: <u>4"</u>	Vent Material: <u>PVC</u>	FORCE MAIN	Length: <u>132'</u>	Diameter: <u>2"</u>	Material and Marking: <u>SN 40 PVC</u>

SOIL ABSORPTION SYSTEM. Check the soil moisture at the depth of plowing or excavation. (If soil can be rolled into a wire, construction shall cease until the soil is dry enough to continue.)

DISTRIBUTION SYSTEM: TOP OF P.C. MANHOLE: 89.54

BED/TRENCH DIMENSIONS	Width: <u>5'</u>	Length: <u>40'</u>	No. Trenches: <u>—</u>	Lateral Spacing: <u>—</u>	Cover Material: <u>GRAVEL</u>	PIT	Inside Dia:	No. Pits:	Liquid Depth:	
Gravel Below Pipes: <u>6"</u>	Fill Above Pipe: <u>18"</u>	Inlet Elev.: <u>94.8</u>	End Elev.:	Pipe Material: <u>PVC</u>	No. Distr. Pipes: <u>1</u>	NUMBER OF FEET FROM NEAREST →	Property Line: <u>>50'</u>	Well: <u>750'</u>	Building: <u>750'</u>	Air Vent: <u>750'</u>
ELEVATION AND DISTRIBUTION INFORMATION	Manifold Elev.:	Manifold Dia.:	Manifold Material:	No. Distr. Pipes: <u>1</u>	Distr. Pipe Dia.: <u>2"</u>					
Hole Size: <u>1/4"</u>	Hole Spacing: <u>36"</u>	Drilled Correctly: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Permanent Markers: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Observation Wells: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump Elev.: <u>81.08</u>	Vertical Lift Corresponds To Approved Plans: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

MOUND SYSTEM:

Mound site plowed perpendicular to slope and furrows thrown upslope <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Check the texture of the fill material for mound systems to make certain that it meets the criteria for medium sand.	PROVIDE A DIAGRAM OF SYSTEM ON REVERSE SIDE. SHOW ELEVATIONS MEASURED.
SOIL COVER Texture:	Permanent Markers: <input type="checkbox"/> Yes <input type="checkbox"/> No	Observation Wells: <input type="checkbox"/> Yes <input type="checkbox"/> No
Depth Over Trench Bed Center:	Depth Over Trench Bed Edges:	Depths Of Topsoil:
Sodded: <input type="checkbox"/> Yes <input type="checkbox"/> No	Seeded: <input type="checkbox"/> Yes <input type="checkbox"/> No	Mulched: <input type="checkbox"/> Yes <input type="checkbox"/> No

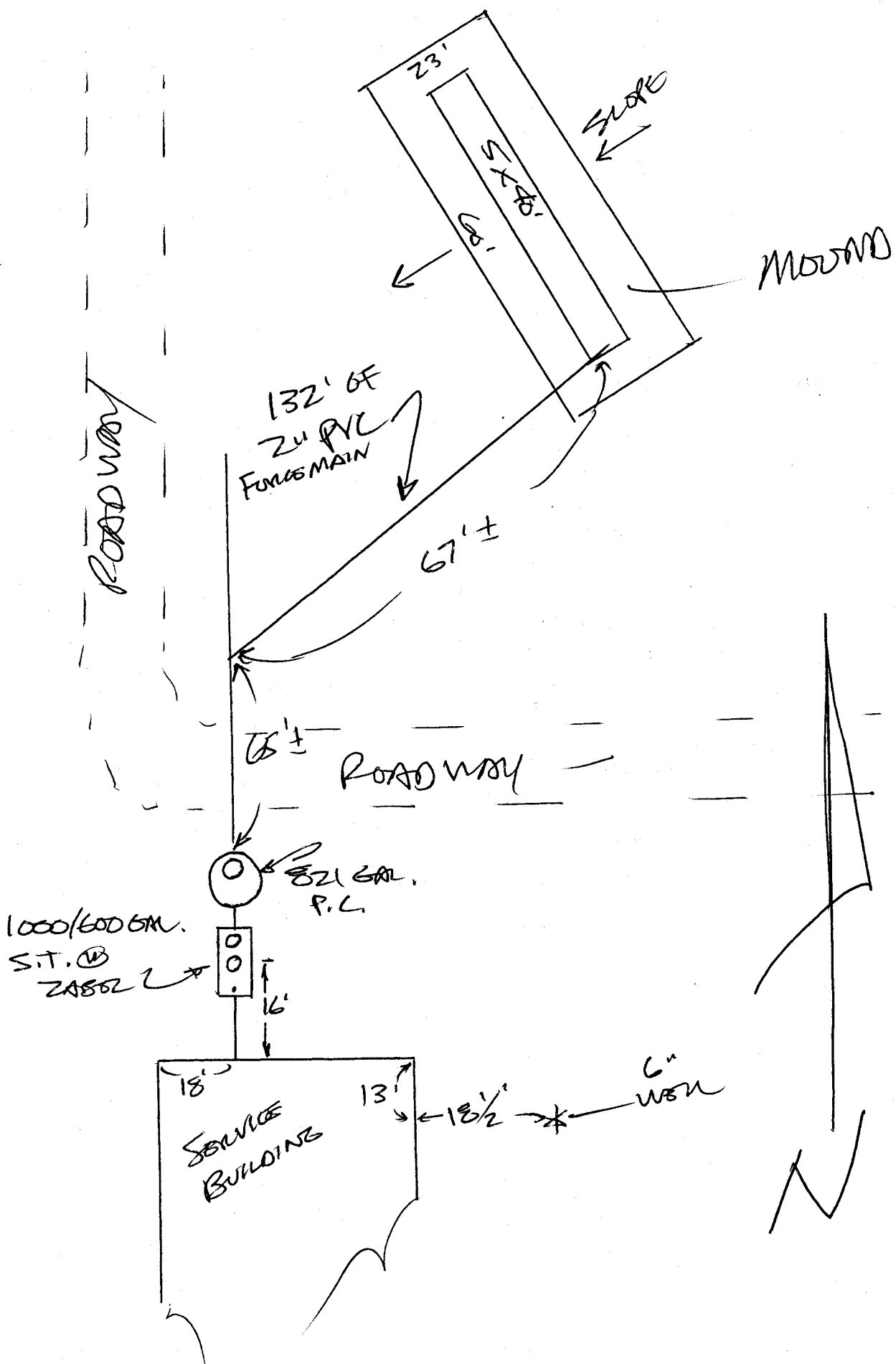
COMMENTS: (Sketch System On Reverse Side)

ROGER FANNING MPRS
DON FANNING MPRS

13.72' LIFT
2.5 SYSTEM
2.4 F.L.
18.62 TDH @ 38' ELEV
OK

[Handwritten signature]

[Handwritten signature] R.S.



SANITARY PERMIT APPLICATION

In accord with ILHR 83.05, Wis. Adm. Code

Safety and Buildings Division
201 W. Washington Avenue
P O Box 7302
Madison, WI 53707-7302

- Attach complete plans (to the county copy only) for the system, on paper not less than 8 1/2 x 11 inches in size.
- See reverse side for instructions for completing this application

Personal information you provide may be used for secondary purposes
(Privacy Law, s. 15.04 (1) (m)).

Renee

County Dane 99-0431
State Sanitary Permit Number 346490
 Check if revision to previous application
State Plan I.D. Number
Trns # 236094, Site # 176744

I. APPLICATION INFORMATION - PLEASE PRINT ALL INFORMATION

Property Owner Name <u>GE Power Systems</u>		Property Location <u>N 77.7, XX NW 1/4, S 23 T 6 N, R 12 E (or) W XXXX</u>	
Property Owner's Mailing Address <u>20 Technology Parkway</u>		Lot Number <u>-</u>	Block Number <u>-</u>
City, State <u>Norcross, GA.</u>	Zip Code <u>30092</u>	Phone Number <u>(770) 662-7031</u>	Subdivision Name or CSM Number <u>77.7 Acre Parcel</u>

II. TYPE OF BUILDING: (check one) State Owned
 Public 1 or 2 Family Dwelling - No. of bedrooms _____
 City Village Town OF Christiana Nearest Road Koshonong Road

III. BUILDING USE: (If building type is public, check all that apply)
 1 Apartment / Condo
 2 Assembly Hall
 3 Campground
 4 Church / School
 5 Hotel / Motel
 6 Medical Facility / Nursing Home
 7 Merchandise: Sales / Repairs
 8 Mobile Home Park
 9 Office / Factory
 10 Outdoor Recreational Facility
 11 Restaurant / Bar / Dining
 12 Service Station / Car Wash
 13 Other: specify _____
 Parcel Tax Number(s)
~~03-0612-232-4000-2~~
08-0612-232-8500-2

IV. TYPE OF PERMIT: (Check only one box on line A. Check box on line B, if applicable)
 A) 1. New System 2. Replacement System 3. Replacement of Tank Only 4. Reconnection of Existing System 5. Repair of an Existing System
 B) A Sanitary Permit was previously issued. Permit Number _____ Date Issued _____

V. TYPE OF SYSTEM: (Check only one)
 Non-Pressurized Distribution Pressurized Distribution Experimental Other
 11 Seepage Bed 21 Mound 30 Specify _____ 41 Holding Tank
 12 Seepage Trench 22 In-Ground Pressure 42 Pit Privy
 13 Seepage Pit Vault Privy
 14 System-In-Fill 23'x60' HGW Mound.

VI. ABSORPTION SYSTEM INFORMATION:

1. Gallons Per Day <u>220</u>	2. Absorp. Area Required (sq. ft.) <u>183</u>	3. Absorp. Area Proposed (sq. ft.) <u>200</u>	4. Loading Rate (Gals/day/sq. ft.) <u>1.1</u>	5. Perc. Rate (Min./in.) <u>---</u>	6. System Elev. Feet <u>94.75</u>	7. Final Grade Elevation Feet <u>---</u>
----------------------------------	--	--	--	--	--------------------------------------	---

VII. TANK INFORMATION

	Capacity in gallons		Total Gallons	# of Tanks	Manufacturer's Name	Prefab. Concrete	Site Constructed	Steel	Fiber-glass	Plastic	Exper. App.
	New Tanks	Existing Tanks									
Septic Tank <u>23000 gallon</u>	<u>1600</u>	<u>---</u>	<u>1600</u>	<u>1</u>	<u>Crest (Dual)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lift Pump Tank <u>5000 gallon</u>	<u>821</u>	<u>---</u>	<u>821</u>	<u>1</u>	<u>Crest</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VIII. RESPONSIBILITY STATEMENT
 I, the undersigned, assume responsibility for installation of the onsite sewage system shown on the attached plans.

Plumber's Name: (Print) <u>William T. Steinke</u>	Plumber's Signature: (No Stamps) <i>William T. Steinke</i>	M/M/PRSW No.: <u>227999</u>	Business Phone Number: <u>(608) 754-6100</u>
Plumber's Address (Street, City, State, Zip Code): <u>2930 N. Harmony Townhall Road Janesville, Wis. 53546</u>			

IX. COUNTY / DEPARTMENT USE ONLY

<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Owner Given Initial Adverse Determination	Sanitary Permit Fee (Includes Groundwater Surchage Fee) <u>619⁰⁰</u>	Date Issued <u>7-23-99</u>	Issuing Agent Signature (No Stamps) <i>[Signature]</i>
--	--	-------------------------------	---

X. CONDITIONS OF APPROVAL / REASONS FOR DISAPPROVAL:

FANNING EXCAVATING, INC.

2930 NORTH HARMONY TOWN HALL ROAD • JANESVILLE, WISCONSIN 54546 • OFFICE PHONE (608) 754-6100

ROGER W. FANNING - MPRS 2961
WILLIAM W. FANNING - MPRS 3480



RECEIVED
JUL 09 1999
SAFETY & BLDGS. DIV.

GE Power Systems Property
NW¹/₄, NW¹/₄, S 23, T 6N, R 12E
Christiana Township - Dane County
77.7 Acre Parcel

COPY

I. SEPTIC TANK SIZING:

- | | | |
|---|-----------------------------|-------------|
| 1. 6 ea. employees @ 20 Gal ea. | | 120 Gallons |
| 2. 2 ea. Floor Drains @ 50 Gal. ea. | | 100 Gallons |
| 3. Minimum Tank Size for Commerical Applications. | | 750 Gallons |
| | MINIMUM TANK SIZE REQUIRED: | 970 Gallons |

1600 Gallon Dual Compartment Septic Tank with Zabel Filter to be Installed.

II. LIFT TANK SIZING:

- | | | |
|-----------------------------------|-----------------------------|-------------|
| 1. Minimum Dose Volume (220 ÷ 4) | = | 55 Gallons |
| 2. One (1) Days Reserve Volume | = | 220 Gallons |
| 3. Bottom 6" of Tank Volume | = | 137 Gallons |
| 4. Flow Back (150' x .164'.) | = | 25 Gallons |
| | MINIMUM LIFT TANK REQUIRED: | 437 Gallons |

821 Gallon Lift Tank to be Installed.

III. SOIL ABSORPTION SIZING:

- | | | | |
|--------------------------------|---|-----------------------|--------------|
| 1. Total Daily Wastewater Load | = | 220 ÷ 1.2 | |
| Gallons per Day per sq' | = | Minimum Absorp. Area. | 183 sq feet. |

To be Installed 200 sq'

5' x 40' Bed
23' x 60' HGW Mound.

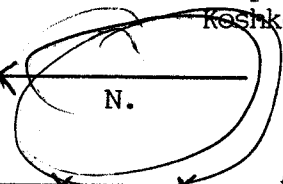
SIGNED: William W. Fanning
LICENSE NUMBER: 227999
DATE: 7/6/99

P.O.W.T.S.
ditionally
PROVED
TMENT OF COMMERCE
OF SAFETY AND BUILDINGS

CORRESPONDENCE

Carpenter - Swan Lane Road.

700'± to
Property Line along
Koshkonong Road.



BM.
↻

Proposed Fence.
around Property.

GE Power Systems Property
N ~~W~~ NW¹/₄, S 23, T 6N, R 12E
Christiana Township - Dane County
77.7 Acre Parcel

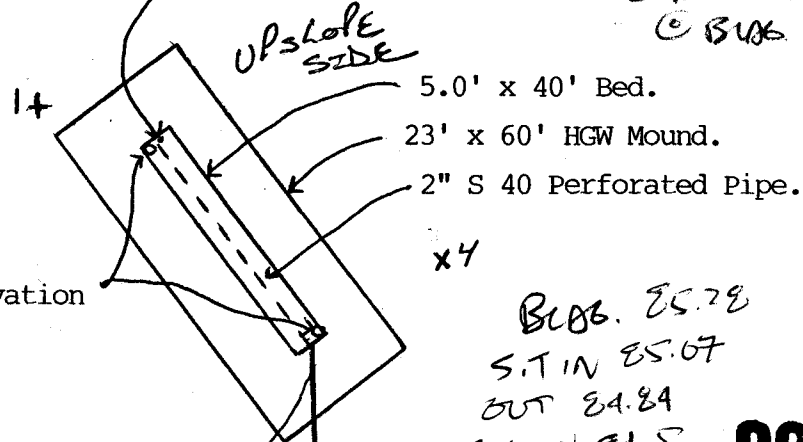
93.1'

GRADE	3.84	
TOP P.C. M.H.	7.40	89.54
"	8.10	
GRADE	4.54	93.1
BSD	3.54	94.1
LOT	2.84	94.8
F.M.	1.34	96.3

65'
67' 2"
132' 2" F.M. ±

Permanent Marker.

BOTH SIDING E. 2 89.44
© BUB



Observation
Pipes.

BLOB. 85.78
S.T. IN 85.07
BOT 84.84
P.C. IN 84.5
PUMP 81.08
BOTH SIDING

COPY

13.72' LIFT
FL.

POWER
SYSTEMS.

2.50
16.96 TDH. ©
356PM ±

2" S 40 PVC Pipe
Force Main.

Blacktop Roadway.

Force Main to be
Insulated under Roadway.

POWER
SYSTEMS.

821 Gallon Lift Tank.

1600 Gallon Dual Compartment
Septic Tank with Zabel Filter.

4" S 40 PVC Pipe in / out of Tanks.

Maintenance/Control Building.

Proposed Well.

Parking Area.

BM = Bench Mark 100.00
Nail in Power Pole
X = Bore Holes

SITE PLAN / PLAN VIEW

Scale 1" = 30'

23' x 60' HGW Mound.

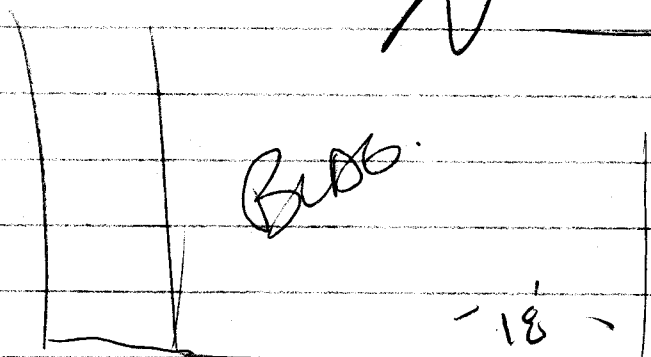
SIGNED: William J. Steuber

LICENSE NUMBER: 227999

DATE: 7/6/99

Driveway to Koshonong Road.

fid



BUDG.

BUDG 5.56
BOY PUMP 1.4
IN 5.77
OUT 6.0
IN P.C. 6.34
PUMP 9.76

DRIVE

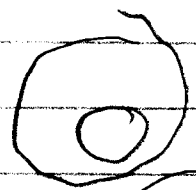
5 1/2"



16'

1000/600
GROSS

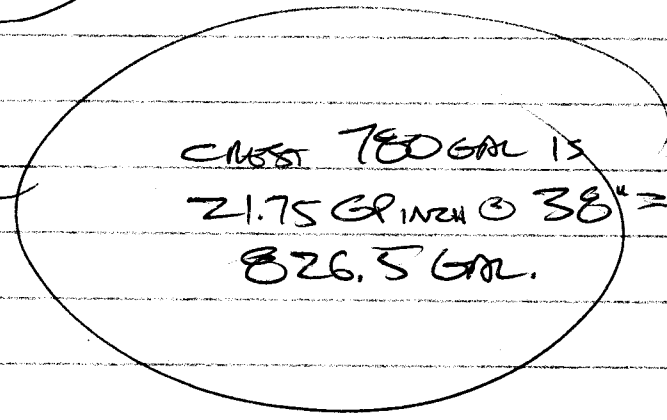
2000



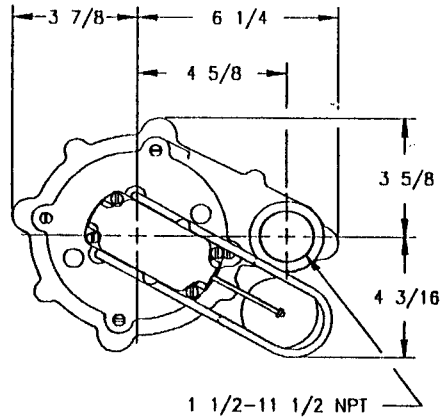
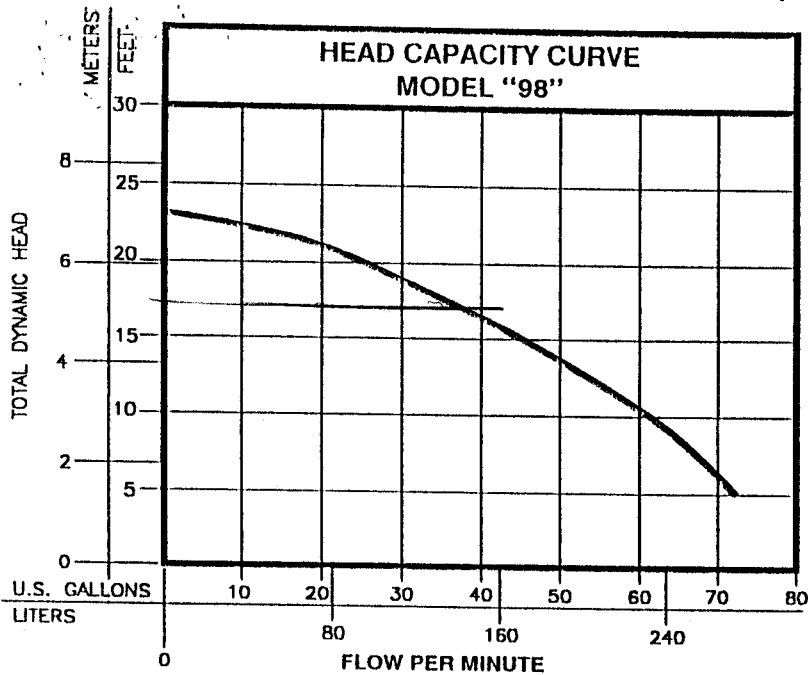
CROSS 884
705

ROTOR FANNING MPRS
DON FANNING MPRS

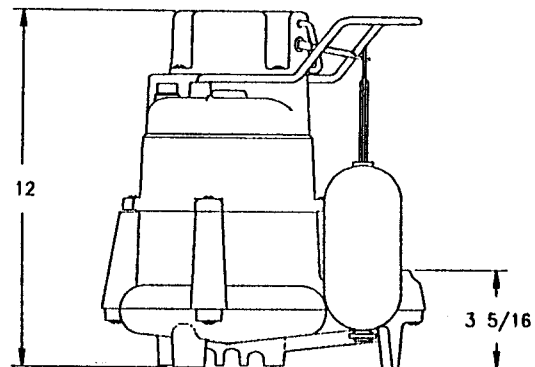
ZUCOR N98



CROSS TOTAL IS
21.75 G INCH @ 38" =
826.5 GAL.



TOTAL DYNAMIC HEAD/FLOW PER MINUTE EFFLUENT AND DEWATERING			
HEAD		CAPACITY UNITS/MIN	
FEET	METERS	GALS	LTRS
5	1.52	72	273
10	3.05	61	231
15	4.57	45	170
20	6.10	25	95
Lock Valve			23'



D. J. MORIVA COMPANY, INC.
 Pumps • Construction Fabric • Bentonite
 5555 Irish Ln. Madison, WI 53711
 (608) 271-1770 CONSULT FACTORY FOR SPECIAL APPLICATIONS

- Electrical alternators, for duplex systems, are available and supplied with an alarm.
- Mechanical alternators, for duplex systems, are available with or without alarm switches.

- Mercury float switches are available for controlling single and three phase systems.
- Double piggyback mercury float switches are available for variable level long cycle controls.

SELECTION GUIDE

1. Integral float operated 2 pole mechanical switch, no external control required.
2. Single piggyback mercury float switch or double piggyback mercury, float switch. Refer to FM0477.
3. Mechanical alternator 10-0072 or 10-0075.
4. See FM0712, for correct model of Electrical Alternator, "E-Pak".
5. Mercury sensor float switch 10-0225 used as a control activator, specify duplex (3) or (4) float system.
6. Four (4) hole "J-Pak", junction box, for watertight connection or wired-in simplex or duplex operation, 10-0002.
7. Two (2) hole "J-Pak", for watertight connection or splice.

Standard all models - Weight 39 lbs. - 1/2 H.P.

Model	98 Series			Control Selection	
	Volts-Ph	Mode	Amps	Simplex	Duplex
M98	115	1	Auto	9.0	1 or 1 & 7
N98	115	1	Non	9.0	2 or 2 & 6
D98	230	1	Auto	4.5	1 or 1 & 7
E98	230	1	Non	4.5	2 or 2 & 6

For information on additional Zoeller products refer to catalog on Combination Starter, FM0514; Piggyback Mercury Switches, FM0477; Electrical Alternator, FM0486; Mechanical Alternator, FM0495; Alarm Package, FM0513; Sump/Sewage Basins, FM0487; and Simplex Control Box, FM0732.

CAUTION
 All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.



MAIL TO: P.O. BOX 16347
 Louisville, KY 40256-0347
 SHIP TO: 3280 Old Millers Lane
 Louisville, KY 40218
 (502) 778-2731 • 1(800) 928-7111
 FAX (502) 774-3624

Manufacturers of ...
 "QUALITY PUMPS SINCE 1939"

"QUALITY PUMPS SINCE 1939"

Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

ZOELLER



SECTION: 2.20.035
FM0973
0392
Supersedes
1090

MAIL TO: P.O. BOX 16347 • Louisville, KY 40258-0347
SHIP TO: 3280 Old Millers Lane • Louisville, KY 40216
(502) 778-2731 • 1(800) 928-PUMP • FAX (502) 774-3624

COMPARE THESE FEATURES

- Non-clogging vortex impeller design
- Durable cast construction. Cast switch case, motor and pump housing, base and impeller. No sheet metal parts to rust or corrode.
- Stainless steel screws, float rod, guard, handle and arm and seal assembly.
- Float operated submersible (NEMA 6) 2 pole mechanical switch.
- Oil filled motor--hermetically sealed.
- Permanent split capacitor motor
- Entire unit pressure tested after assembly.
- Automatic reset thermal overload protection.
- Carbon and ceramic shaft seal.
- Water tight neoprene "□" ring between motor and pump housing.
- Maximum temperature for effluent or dewatering 130° F. - 54° C.
- 60 cycles, 1725 RPM.
- Passes ½ inch solids (sphere).
- No screens to clog.
- Standard cord length 15' (UL listed).
- 1½" NPT Discharge.
- On point - 9½"
- Off point - 2½"
- Major width - 10"
- Height - 12"

**SIMPLEX AND DUPLEX
SYSTEMS AVAILABLE**

**PACKAGED SYSTEMS
AVAILABLE**

ZOELLER

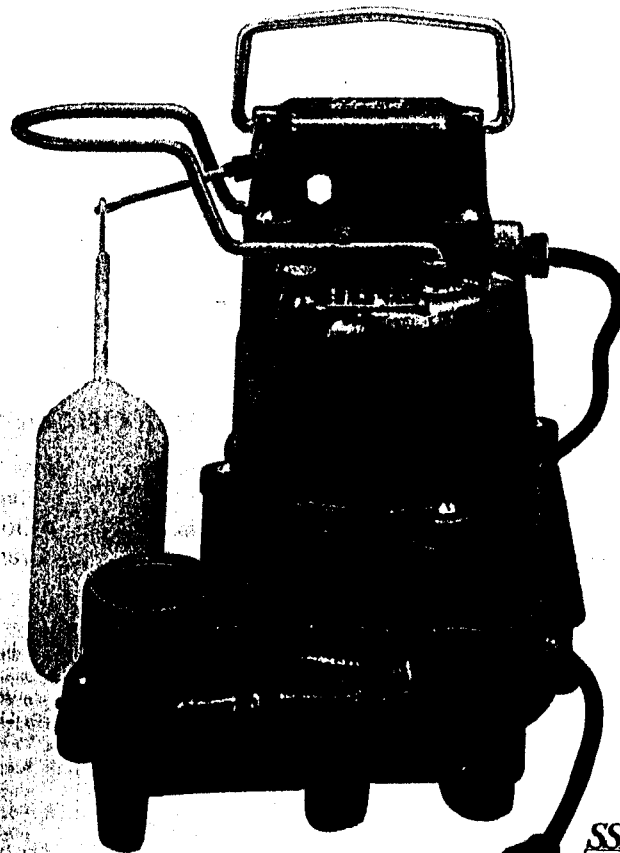
MAIL TO: P.O. BOX 16347 • Louisville, KY 40258-0347
SHIP TO: 3280 Old Millers Lane • Louisville, KY 40216
(502) 778-2731 • 1(800) 928-PUMP • FAX (502) 774-3624



Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

COPY "98" Cast Iron Series **"FLOW MATE"** FOR SEPTIC TANK SYSTEMS **EFFLUENT** OR DEWATERING PUMP SUBMERSIBLE 1½" NPT DISCHARGE

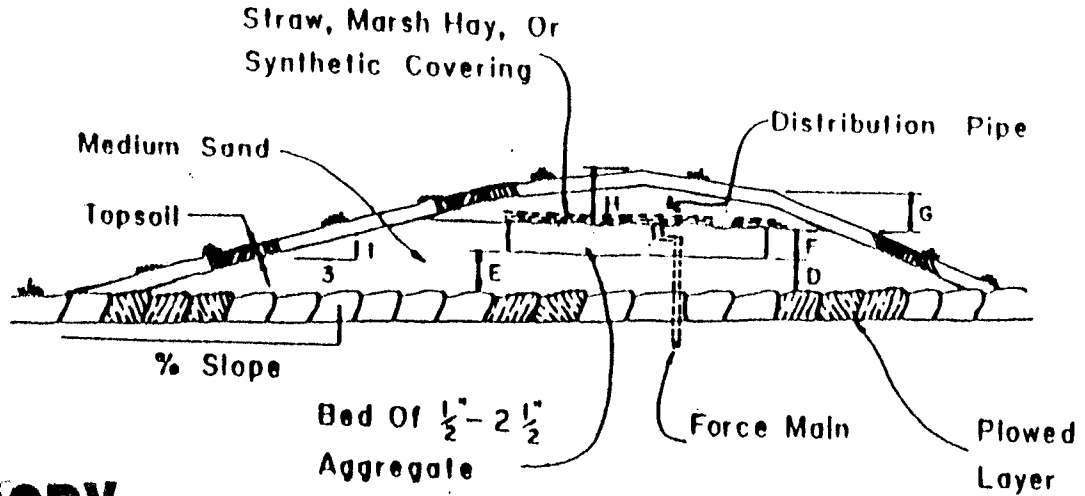


Sump & Sewage Pump Mfg. Assoc.
SSPMA Specification
Number
98 Series SC-2225

MODELS AVAILABLE

- Automatic or Non-Automatic
- ½ H.P., 1 Ph., 115V or 230V
- Available with Piggyback Mercury Float Switch.

GE Power System Property
 NW $\frac{1}{4}$, NW $\frac{1}{4}$, S 23, T 6N, R 12E
 Christiana Township - Dane County
 77.7 Acre Parcel



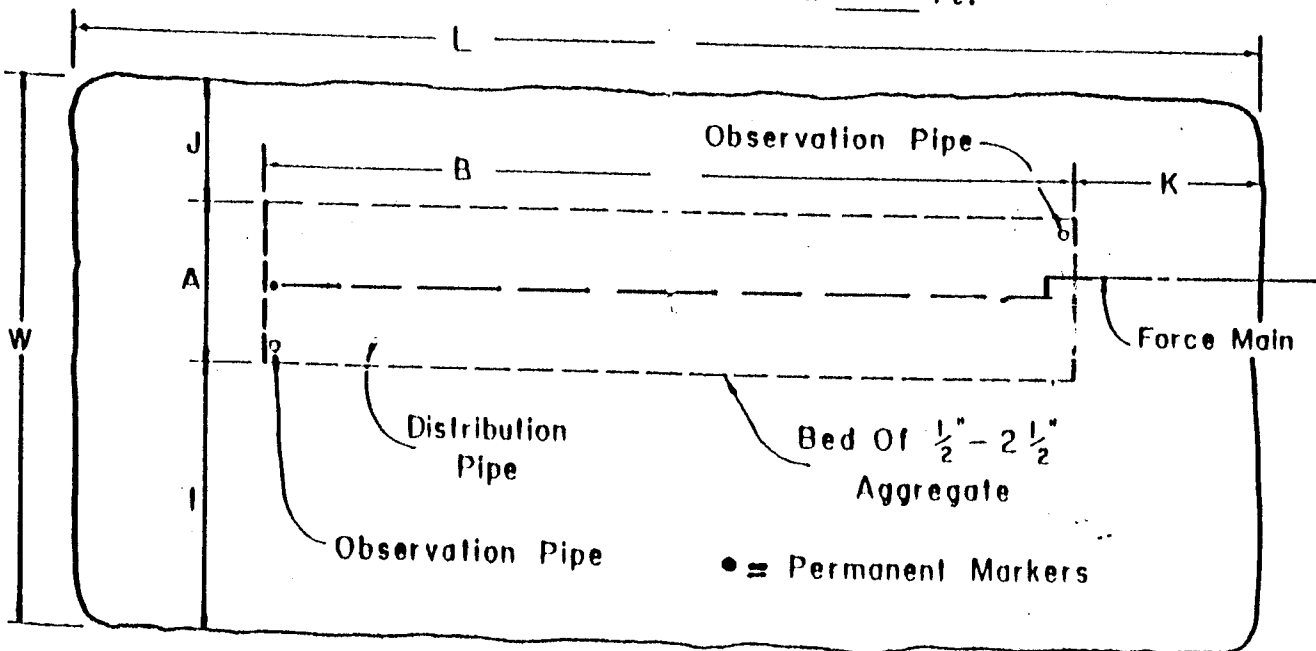
COPY

Cross Section Of A Mound System Using
 A Bed For The Absorption Area

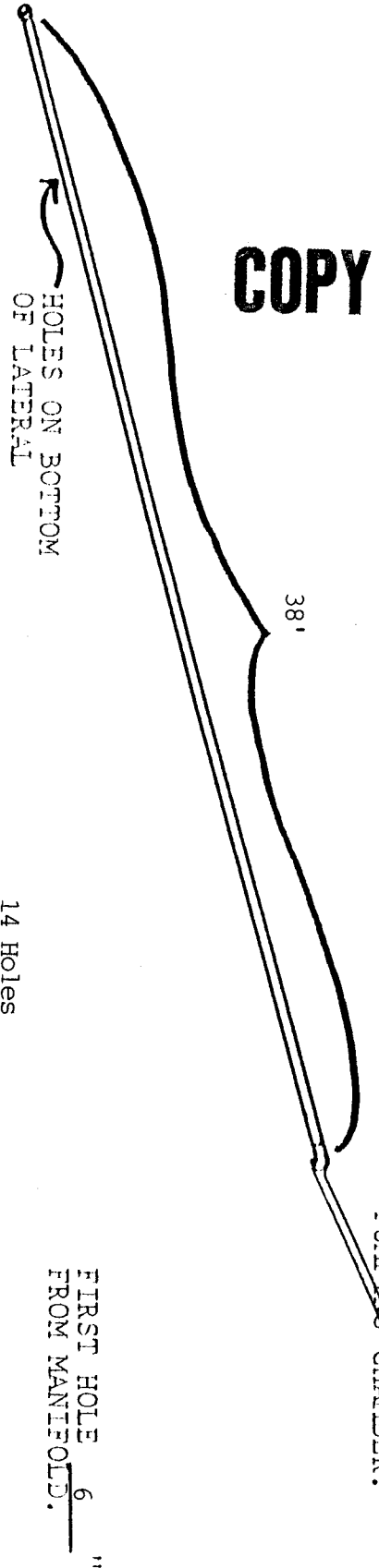
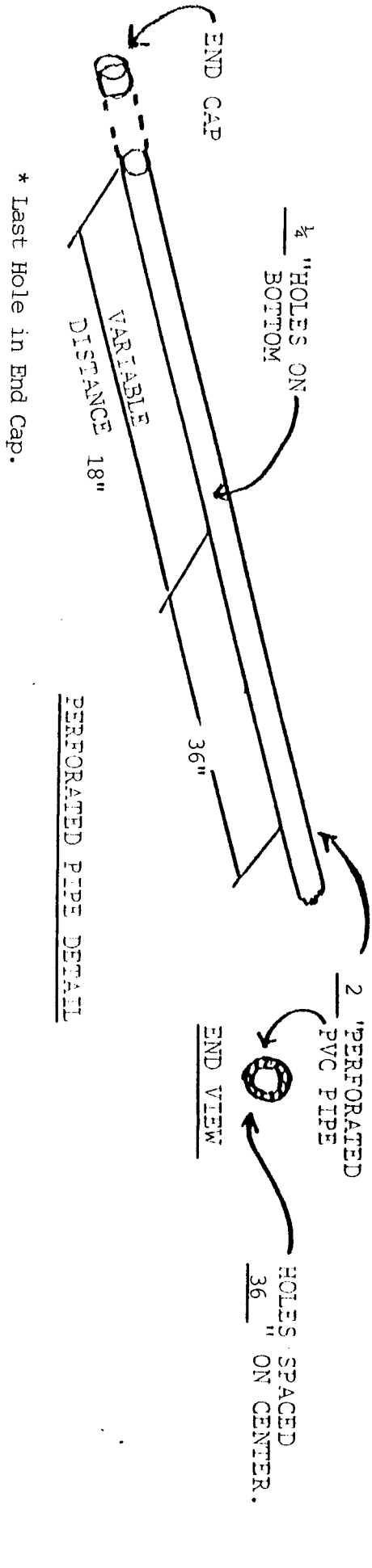
- D 1.0 Ft.
- E 1.13 Ft.
- F .83 Ft.
- G 1.0 Ft.
- H 1.5 Ft.

Signed: William J. Stambaugh
 License Number: 227999
 Date: 7/6/99

- A 5.0 Ft.
- B 40.0 Ft.
- K 10.0 Ft.
- L 60.0 Ft.
- J 8.0 Ft.
- I 10.0 Ft.
- W 23.0 Ft.



Plan View Of Mound Using A Bed For The Absorption Area.

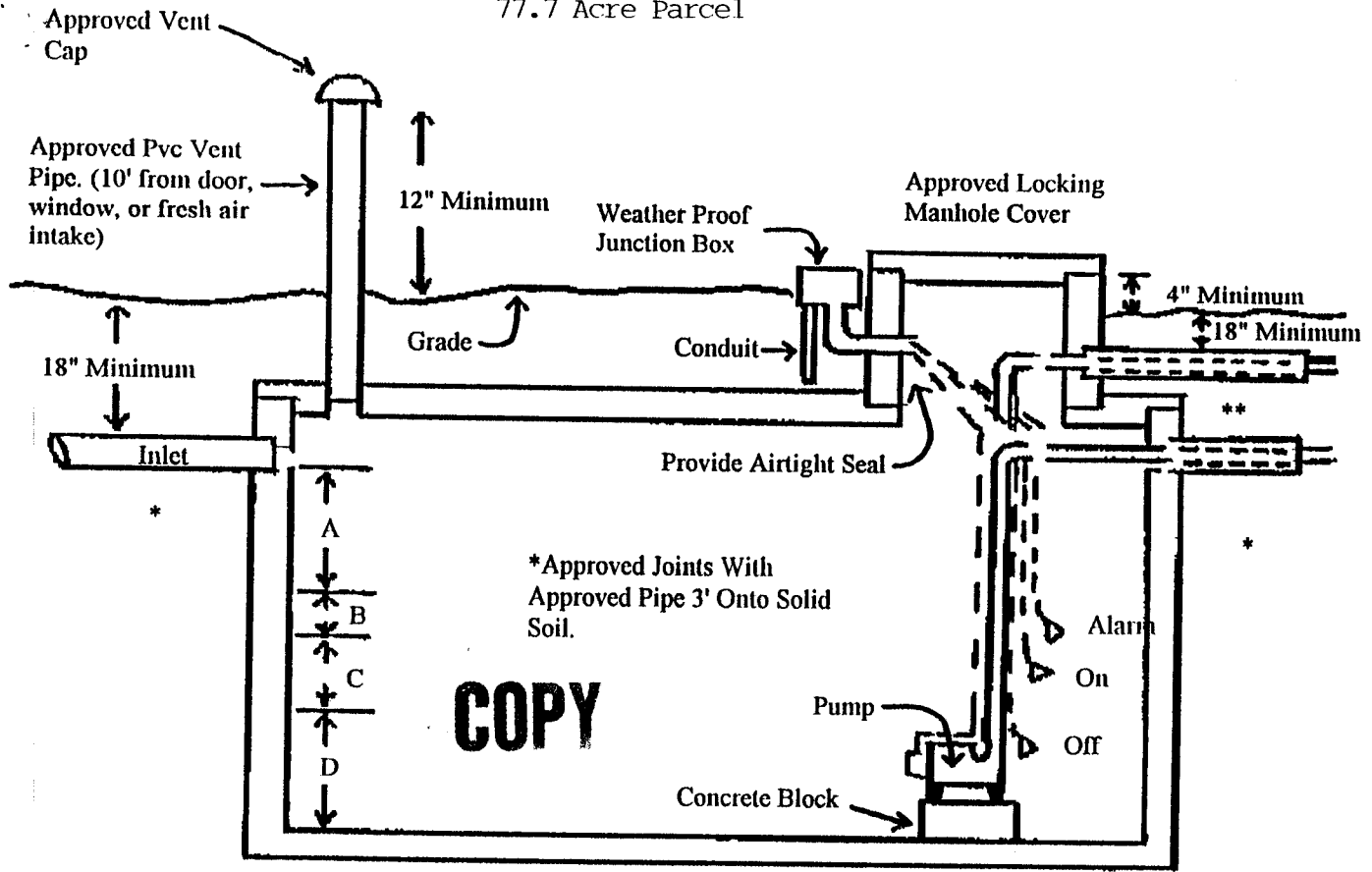


14 Holes
 x 1 Lateral
 14
 x 1.17 GPH
 16.38 GPM

SIGNED: William J. Stahl
 LICENSE NUMBER: 227999
 DATE: 7/6/99

PIPE LATERAL LAYOUT

GE Power Systems Property
 W¹/₂, NW¹/₄, S 23, T 6N, R 12E
 Christiana Township - Dane County
 77.7 Acre Parcel



**** RISER EXIT PERMITTED ONLY IF TANK MANUFACTURE HAS SUCH APPROVAL**

SPECIFICATIONS:

SEPTIC &

DOSE TANKS: Manufacturer: Crest
 Tank Size: 821 Gallons

Number of Doses 1.6 per day
 Dose Volume

ALARM: Manufacturer: S.J. Electrol
 Model Number: 101HW
 Switch Type: N.O.

Including Backflow 137 gallon
 Capacities:

PUMP: Manufacturer: Zoeller
 Model Number: 98
 Switch Type: 15PMD

A = 18 inches or 410 gallons
 B = 6 inches or 137 gallons
 C = 6 inches or 137 gallons
 D = 6 inches or 137 gallons

Minimum Discharge Rate 16.38GPM NOTE: Pump & alarm are to be installed on separate circuits.

Vertical Difference Between Pump Off and Distribution Pipe.... 12.0 feet
 + Minimum Network Supply Pressure..... 2.5 feet
 + 150 feet of Force Main X .56 ft/100 ft Friction Factor .84 feet

Total Dynamic Head = 15.34 feet

*22.80 Gallons Per Inch

Internal Dimension of Tank: Length 96" Width 67" Liquid Depth 36"

Signed: William J. Hensley

License Number: 227999 Date: 7/6/99



**Division of Public Health
Environmental Health Section**

Director – Susan Crowley
Division Administrator – Gareth R. Johnson

KATHLEEN M. FALK
DANE COUNTY EXECUTIVE

**PRELIMINARY OPINION OF SITE SUITABILITY
FOR A PRIVATE SEWAGE SYSTEM DISPOSAL SYSTEM**

The Dane County Department of Human Services (hereinafter the “Department”) has evaluated the site suitability of certain soils located in:

NW 1/4, NW 1/4, Sec. 23, City/Town of CHRISTIANA

Lot NA Subdivision/CSM_NA

Owner/Buyer TOM CARPENTER Property Address NYA.

for the installation of a private sewage system. The Department’s review based upon examination of (1) the “Soil and Site Evaluation report” as submitted by the Certified Soil Tester, WM. T. STEINKE CST# 227999 and (2) the results of an on-site inspection by the Department. Based upon such examination, it is the opinion of the Department that the exact areas inspected appear to meet the minimum requirements of Wisconsin Administrative Code ch Comm 83 for the installation of:

Conventional Soil Absorption System (COMM 83.12).

In-Ground Pressure Distribution System (COMM 83.14)

Mound System (COMM 83.23)

At-Grade System (COMM 83.22)

Holding Tank (COMM 83.18)

Other:

The above opinion is advisory only. Any disturbance to the exact area that was investigated, including compaction, excavation and filling or removal of soil, will invalidate this opinion. The Department reserves the right to require a new soil morphological evaluation as may become necessary to ensure compliance with all applicable codes prior to issuing a sanitary permit.

Date: JUNE 7, 1999

JAMES L. MEYERHOFER R.S.
SENIOR SANITARIAN

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and location and distance to nearest road.

County	Dane
Parcel I.D.#	08-0612-232-9000-2 08-0612-232-8500-2
Reviewed By	Date

APPLICANT INFORMATION - Please print all information.

Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04 (1) (m)).

Property Owner Carpenter, Tom	Property Location Govt. Lot <u>NW 1/4 S 23 T 6 N, R 12 E</u>
Property Owner's Mailing Address 2305 Carpenter - Swan Lane Road	Lot # <u>--</u> Block # <u>--</u> Subd. Name or CSM# 77.7 Acre Parcel
City Cambridge	State Zip Code Phone Number WI 53523 (608)423-3041
<input type="checkbox"/> City <input type="checkbox"/> Village <input checked="" type="checkbox"/> Town	Nearest Road Koshkonong Road

New Construction Use: Residential / Number of bedrooms _____ Addition to existing building _____
 Replacement Public or commercial describe General Electric Power Plant

Code Derived daily flow 220 gpd Recommended design loading rate 1.2 bed, gpd/ft² 1.2 trench, gpd/ft²
Absorption area required 183 bed, ft² 183 trench, ft² Maximum design loading rate 1.2 bed, gpd/ft² 1.2 trench, gpd/ft²
Recommended infiltration surface elevation(s) 94.75 ft (as referred to site plan benchmar
Additional design / site considerations HGW Mound, 550sq' of Basil Area Required.

Parent material RoB Rockton Soils Flood plain elevation, if applicable N/A ft

S=Suitable for system	Conventional	Mound	In-Ground Pressure	AT-Grade	System in Fill	Holding Tank
U=Unsuitable for system	<input type="checkbox"/> S <input checked="" type="checkbox"/> U	<input checked="" type="checkbox"/> S <input type="checkbox"/> U	<input type="checkbox"/> S <input checked="" type="checkbox"/> U	<input type="checkbox"/> S <input checked="" type="checkbox"/> U	<input type="checkbox"/> S <input checked="" type="checkbox"/> U	<input type="checkbox"/> S <input checked="" type="checkbox"/> U

SOIL DESCRIPTION REPORT

Boring#	Horizon	Depth in.	Dominant Color Munsell	Mottles Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	Roots	GPD/ft ²	
										Bed	Trench
1 Ground elev 93.10 ft Depth to limiting factor 50"	1	0-10	10YR2/3	---	sil	2mgr	mvfr	gs	1f	.5	.6
	2	10-22	10YR5/4	--	sil	2fsbk	mvfr	gs	1f	.5	.6
	3	22-37	10YR4/4	--	cl	1-2msbk	mfr	gs	1f	.3	.4
	4	37-45	10YR4/4	--	siel	1fsbk	mfr	gs	1f	.2	.3
	5	45-50	10YR3/4	--	grsl	1fsbk	mfr	gs	1f	.4	.5
	6	50-72	10YR6/4	10YR5/8 flf 10YR6/1 flf	grsl	1fsbk	mvfr(wet)	gs	1f	.4	.5
	7	72-	10YR7/4	-	lr	-	-	-	-	-	-

Remarks: Borings dug on 5/19/99.

2 Ground elev 91.80 ft Depth to limiting factor 40"	1	0-8	10YR2/2	--	sil	2mgr	mvfr	gs	1f	.5	.6
	2	8-12	10YR5/4	--	sil	2fsbk	mvfr	gs	--	.5	.6
	3	12-35	10YR4/4	--	cl	1-2msbk	mfr	gs	--	.3	.4
	4	35-40	10YR3/4	--	sl	1fsbk	mvfr(wet)	gs	--	.4	.5
	5	40-	10YR7/4	-	-	-	-	-	-	-	-

Remarks:

CST Name (Please Print) William T. Steinke	Signature: <i>William T. Steinke</i>	Date 5/19/99	Telephone 608-754-6100	Dane County Environmental Health Department
Address 2930 N. Harmony Townhall Rd., Janesville, WI 53546	CST Number 227999	Ref # 210		

FANNING EXCAVATING, INC.

2930 NORTH HARMONY TOWN HALL ROAD • JANESVILLE, WISCONSIN 54546 • OFFICE PHONE (608) 754-6100

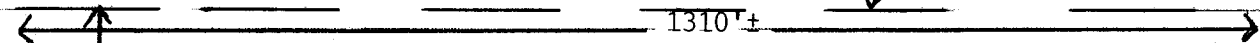
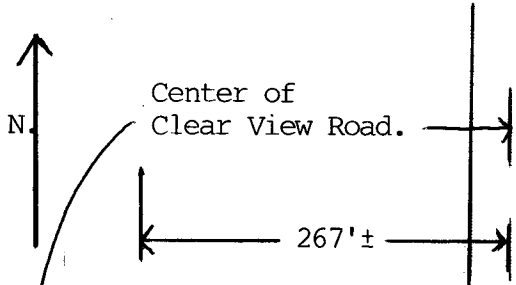


ROGER W. FANNING - MPRS 2961
WILLIAM W. FANNING - MPRS 3480

Page 3 of 4

Tom Carpenter Property
W $\frac{1}{2}$, NW $\frac{1}{4}$, S 23, T 6N, R 12E
Christiana Township - Dane County
77.7 Acre Parcel

Center of Koshkonong Road.



700'

Bench Mark.

2 x x1
3 x x4

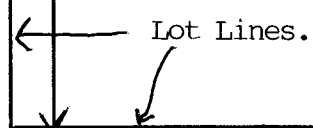
See Enlarged Drawing.

Carpenter - Swain Road.

2563'±.

William T. Steinke
#227999

SITE PLAN
No Scale



FANNING EXCAVATING, INC.

2930 NORTH HARMONY TOWN HALL ROAD • JANESVILLE, WISCONSIN 54546 • OFFICE PHONE (608) 754-6100

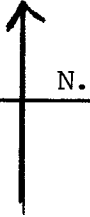


ROGER W. FANNING - MPRS 2961
WILLIAM W. FANNING - MPRS 3480

Tom Carpenter Property
W $\frac{1}{2}$, NW $\frac{1}{4}$, S 23, T 6N, R 12E
Christiana Township - Dane County
77.7 Acre Parcel

Page 4 of 4

Koshkonong Road



Carpenter - Swan
Lane Road.

BM = Bench Mark 100.00
Nail in Power Pole
X = Bore Holes

* All Borings are Greater than
5' from property Lines.

Borings are scaled from bench mark.

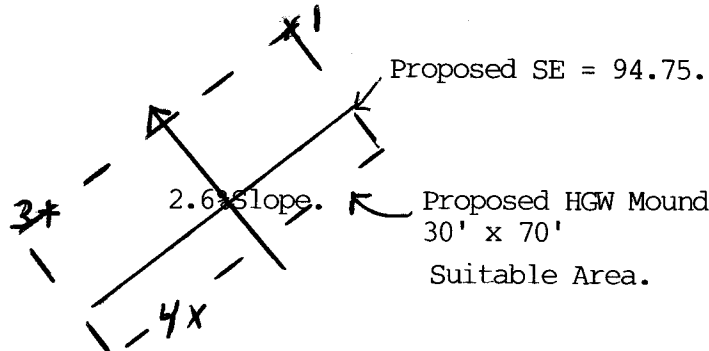
William T. Steinke

William T. Steinke
#227999

700'±.

BM.

2 X



SITE PLAN

Scale 1" = 40'

Appendix F: Laboratory Method Detection Limits

Analysis Group	Method Description	Method Code	Prep Method	Analyte Description	CAS Number	RL	MDL	LOD	Units	LCS - Low	LCS - High	LCS - RPD %	MS - Low	MS - High	MS - RPD %	Surrogate Low	Surrogate High
Soil	Fluorinated Alkyl Substances	PFC_IDA_WI	Shake_Bath_14D	Perfluorobutanoic acid (PFBA)	375-22-4	0.200	0.0280		ug/Kg	60	135	30	70	130	30		
				Perfluoropentanoic acid (PFPeA)	2706-90-3	0.200	0.0770		ug/Kg	60	135	30	70	130	30		
				Perfluorohexanoic acid (PFHxA)	307-24-4	0.200	0.0420		ug/Kg	60	135	30	70	130	30		
				Perfluoroheptanoic acid (PFHpA)	375-85-9	0.200	0.0290		ug/Kg	60	135	30	70	130	30		
				Perfluorooctanoic acid (PFOA)	335-67-1	0.200	0.0860		ug/Kg	60	135	30	70	130	30		
				Perfluorononanoic acid (PFNA)	375-95-1	0.200	0.0360		ug/Kg	60	135	30	70	130	30		
				Perfluorodecanoic acid (PFDA)	335-76-2	0.200	0.0220		ug/Kg	60	135	30	70	130	30		
				Perfluoroundecanoic acid (PFUnA)	2058-94-8	0.200	0.0360		ug/Kg	60	135	30	70	130	30		
				Perfluorododecanoic acid (PFDoA)	307-55-1	0.200	0.0670		ug/Kg	60	135	30	70	130	30		
				Perfluorotridecanoic acid (PFTriA)	72629-94-8	0.200	0.0510		ug/Kg	60	135	30	70	130	30		
				Perfluorotetradecanoic acid (PFTeA)	376-06-7	0.200	0.0540		ug/Kg	60	135	30	70	130	30		
				Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	0.200	0.0440		ug/Kg	60	135	30	70	130	30		
				Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	0.200	0.0280		ug/Kg	60	135	30	70	130	30		
				Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.200	0.0250		ug/Kg	60	135	30	70	130	30		
				Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	0.200	0.0200		ug/Kg	60	135	30	70	130	30		
				Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.200	0.0310		ug/Kg	60	135	30	70	130	30		
				Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.200	0.0350		ug/Kg	60	135	30	70	130	30		
				Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.500	0.200		ug/Kg	60	135	30	70	130	30		
				Perfluorononanesulfonic acid (PFNS)	68259-12-1	0.200	0.0200		ug/Kg	60	135	30	70	130	30		
				Perfluorodecanesulfonic acid (PFDS)	335-77-3	0.200	0.0390		ug/Kg	60	135	30	70	130	30		
				Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	0.200	0.0600		ug/Kg	60	135	30	70	130	30		
				Perfluorooctanesulfonamide (FOSA)	754-91-6	0.200	0.0820		ug/Kg	60	135	30	70	130	30		
				NEtFOSA	4151-50-2	0.200	0.0240		ug/Kg	60	135	30	70	130	30		
				NMeFOSA	31506-32-8	0.200	0.0410		ug/Kg	60	135	30	70	130	30		
				NMeFOSAA	2355-31-9	2.00	0.390		ug/Kg	60	135	30	70	130	30		
				NEtFOSAA	2991-50-6	2.00	0.370		ug/Kg	60	135	30	70	130	30		
				NMeFOSE	24448-09-7	0.200	0.0710		ug/Kg	60	135	30	70	130	30		
				NEtFOSE	1691-99-2	0.200	0.0360		ug/Kg	60	135	30	70	130	30		
				4:2 FTS	757124-72-4	2.00	0.370		ug/Kg	60	135	30	70	130	30		
				6:2 FTS	27619-97-2	2.00	0.150		ug/Kg	60	135	30	70	130	30		
				8:2 FTS	39108-34-4	2.00	0.250		ug/Kg	60	135	30	70	130	30		
				10:2 FTS	120226-60-0	0.200	0.0500		ug/Kg	60	135	30	70	130	30		
				DONA	919005-14-4	0.200	0.0180		ug/Kg	60	135	30	70	130	30		
				HFPO-DA (GenX)	13252-13-6	0.250	0.110		ug/Kg	60	135	30	70	130	30		
				F-53B Major	756426-58-1	0.200	0.0270		ug/Kg	60	135	30	70	130	30		
				F-53B Minor	763051-92-9	0.200	0.0220		ug/Kg	60	135	30	70	130	30		
				13C4 PFBA	STL00992				ug/Kg	25	150			25	150		
				13C5 PFPeA	STL01893				ug/Kg	25	150			25	150		
				13C2 PFHxA	STL00993				ug/Kg	25	150			25	150		
				13C4 PFHpA	STL01892				ug/Kg	25	150			25	150		
				13C4 PFOA	STL00990				ug/Kg	25	150			25	150		
				13C5 PFNA	STL00995				ug/Kg	25	150			25	150		
				13C2 PFDA	STL00996				ug/Kg	25	150			25	150		
				13C2 PFUnA	STL00997				ug/Kg	25	150			25	150		
				13C2 PFDoA	STL00998				ug/Kg	25	150			25	150		
				13C2 PFTeDA	STL02116				ug/Kg	25	150			25	150		
				13C2 PFHxDA	STL02115				ug/Kg	25	150			25	150		
				13C3 PFBS	STL02337				ug/Kg	25	150			25	150		
				18O2 PFHxS	STL00994				ug/Kg	25	150			25	150		
				13C4 PFOS	STL00991				ug/Kg	25	150			25	150		
13C8 FOSA	STL01056				ug/Kg	10	150			10	150						
d3-NMeFOSAA	STL02118				ug/Kg	25	150			25	150						
d5-NEtFOSAA	STL02117				ug/Kg	25	150			25	150						
d-N-MeFOSA-M	STL02275				ug/Kg	10	150			10	150						
d-N-EtFOSA-M	STL02282				ug/Kg	10	150			10	150						
d7-N-MeFOSE-M	STL02277				ug/Kg	10	150			10	150						
d9-N-EtFOSE-M	STL02278				ug/Kg	10	150			10	150						
M2-4:2 FTS	STL02395				ug/Kg	25	150			25	150						
M2-6:2 FTS	STL02279				ug/Kg	25	150			25	150						
M2-8:2 FTS	STL02280				ug/Kg	25	150			25	150						
13C3 HFPO-DA	STL02255				ug/Kg	25	150			25	150						
13C2 10:2 FTS	STL02814				ug/Kg	25	150			25	150						

Analysis Group	Method Description	Method Code	Prep Method	Analyte Description	CAS Number	RL	MDL	LOD	Units	LCS - Low	LCS - High	LCS - RPD %	MS - Low	MS - High	MS - RPD %	Surrogate Low	Surrogate High
Waters / Equipment Blanks	Fluorinated Alkyl Substances	PFC_IDA_WI	3535_PFC	Perfluorobutanoic acid (PFBA)	375-22-4	5.00	2.40		ng/L	60	135	30	70	130	30		
				Perfluoropentanoic acid (PFPeA)	2706-90-3	2.00	0.490		ng/L	60	135	30	70	130	30		
				Perfluorohexanoic acid (PFHxA)	307-24-4	2.00	0.580		ng/L	60	135	30	70	130	30		
				Perfluoroheptanoic acid (PFHpA)	375-85-9	2.00	0.250		ng/L	60	135	30	70	130	30		
				Perfluorooctanoic acid (PFOA)	335-67-1	2.00	0.850		ng/L	60	135	30	70	130	30		
				Perfluorononanoic acid (PFNA)	375-95-1	2.00	0.270		ng/L	60	135	30	70	130	30		
				Perfluorodecanoic acid (PFDA)	335-76-2	2.00	0.310		ng/L	60	135	30	70	130	30		
				Perfluoroundecanoic acid (PFUnA)	2058-94-8	2.00	1.10		ng/L	60	135	30	70	130	30		
				Perfluorododecanoic acid (PFDoA)	307-55-1	2.00	0.550		ng/L	60	135	30	70	130	30		
				Perfluorotridecanoic acid (PFTriA)	72629-94-8	2.00	1.30		ng/L	60	135	30	70	130	30		
				Perfluorotetradecanoic acid (PFTeA)	376-06-7	2.00	0.730		ng/L	60	135	30	70	130	30		
				Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	2.00	0.890		ng/L	60	135	30	70	130	30		
				Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	2.00	0.940		ng/L	60	135	30	70	130	30		
				Perfluorobutanesulfonic acid (PFBS)	375-73-5	2.00	0.200		ng/L	60	135	30	70	130	30		
				Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	2.00	0.300		ng/L	60	135	30	70	130	30		
				Perfluorohexanesulfonic acid (PFHxS)	355-46-4	2.00	0.570		ng/L	60	135	30	70	130	30		
				Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2.00	0.190		ng/L	60	135	30	70	130	30		
				Perfluorooctanesulfonic acid (PFOS)	1763-23-1	2.00	0.540		ng/L	60	135	30	70	130	30		
				Perfluorononanesulfonic acid (PFNS)	68259-12-1	2.00	0.370		ng/L	60	135	30	70	130	30		
				Perfluorodecanesulfonic acid (PFDS)	335-77-3	2.00	0.320		ng/L	60	135	30	70	130	30		
				Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	2.00	0.970		ng/L	60	135	30	70	130	30		
				Perfluorooctanesulfonamide (FOSA)	754-91-6	2.00	0.980		ng/L	60	135	30	70	130	30		
				NEtFOSA	4151-50-2	2.00	0.870		ng/L	60	135	30	70	130	30		
				NMeFOSA	31506-32-8	2.00	0.430		ng/L	60	135	30	70	130	30		
				NMeFOSAA	2355-31-9	5.00	1.20		ng/L	60	135	30	70	130	30		
				NEtFOSAA	2991-50-6	5.00	1.30		ng/L	60	135	30	70	130	30		
				NMeFOSE	24448-09-7	4.00	1.40		ng/L	60	135	30	70	130	30		
				NEtFOSE	1691-99-2	2.00	0.850		ng/L	60	135	30	70	130	30		
				4:2 FTS	757124-72-4	2.00	0.240		ng/L	60	135	30	70	130	30		
				6:2 FTS	27619-97-2	5.00	2.50		ng/L	60	135	30	70	130	30		
				8:2 FTS	39108-34-4	2.00	0.460		ng/L	60	135	30	70	130	30		
				10:2 FTS	120226-60-0	2.00	0.670		ng/L	60	135	30	70	130	30		
				DONA	919005-14-4	2.00	0.400		ng/L	60	135	30	70	130	30		
				HFPO-DA (GenX)	13252-13-6	4.00	1.50		ng/L	60	135	30	70	130	30		
				F-53B Major	756426-58-1	2.00	0.240		ng/L	60	135	30	70	130	30		
				F-53B Minor	763051-92-9	2.00	0.320		ng/L	60	135	30	70	130	30		
				13C4 PFBA	STL00992				ng/L	25	150			25	150		
				13C5 PFPeA	STL01893				ng/L	25	150			25	150		
				13C2 PFHxA	STL00993				ng/L	25	150			25	150		
				13C4 PFHpA	STL01892				ng/L	25	150			25	150		
				13C4 PFOA	STL00990				ng/L	25	150			25	150		
				13C5 PFNA	STL00995				ng/L	25	150			25	150		
				13C2 PFDA	STL00996				ng/L	25	150			25	150		
				13C2 PFUnA	STL00997				ng/L	25	150			25	150		
				13C2 PFDoA	STL00998				ng/L	25	150			25	150		
				13C2 PFTeDA	STL02116				ng/L	25	150			25	150		
				13C2 PFHxDA	STL02115				ng/L	25	150			25	150		
				13C3 PFBS	STL02337				ng/L	25	150			25	150		
				18O2 PFHxS	STL00994				ng/L	25	150			25	150		
				13C4 PFOS	STL00991				ng/L	25	150			25	150		
13C8 FOSA	STL01056				ng/L	10	150			10	150						
d3-NMeFOSAA	STL02118				ng/L	25	150			25	150						
d5-NEtFOSAA	STL02117				ng/L	25	150			25	150						
d-N-MeFOSA-M	STL02275				ng/L	10	150			10	150						
d-N-EtFOSA-M	STL02282				ng/L	10	150			10	150						
d7-N-MeFOSE-M	STL02277				ng/L	10	150			10	150						
d9-N-EtFOSE-M	STL02278				ng/L	10	150			10	150						
M2-4:2 FTS	STL02395				ng/L	25	150			25	150						
M2-6:2 FTS	STL02279				ng/L	25	150			25	150						
M2-8:2 FTS	STL02280				ng/L	25	150			25	150						
13C3 HFPO-DA	STL02255				ng/L	25	150			25	150						
13C2 10:2 FTS	STL02814				ng/L	25	150			25	150						