Supplemental Site Investigation Report

RockGen Energy Center
Town of Christiana, Wisconsin

November 2024

BRRTS #02-13-587341

Prepared For:

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

Prepared By:

TRC
6737 West Washington Street, Suite 3460
West Allis, Wisconsin 53214

Scott Litwin
Project Geologist

Scott Rademaker, P.G. (WI)
Senior Hydrogeologist

Jeff Ramey
Principal Chemist

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EXECUTIVE SUMMARY

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

TRC conducted the second and third phases of site investigation activities between January 2022 and November 2023 which included collecting samples of soil, groundwater, surface water, and stormwater and analyzing these samples for 33 PFAS compounds.

The areas of the Site with the highest soil and groundwater PFAS concentrations have been remediated by capping and eliminating the infiltration pathway to groundwater. The extent of soil impacted by the release was constrained during this investigation and no further action is requested for additional future soil sampling. Additionally, no further action is requested for any future surface water or stormwater sampling due to the results of the sampling conducted during this investigation being below the applicable surface water criteria.

The groundwater monitoring well network was extended through two phases of investigation and well installations and now consists of eight (8) NR 141 compliant water table wells, eight (8) Westbay® multiport wells, one (1) piezometer. The monitoring wells in the network have been sampled in as few as three (3) and as many as nine (9) quarters. The current monitoring network adequately delineates the vertical and lateral extent of PFAS in groundwater at the site that is accessible for installing groundwater monitoring wells. Continued quarterly groundwater monitoring of the existing network for a period of one (1) year is recommended before compiling another supplemental Site Investigation Report.

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. Hal Siegrist
240-242-5175
hal.siegrist@purenergyllc.com

Environmental Consultant

TRC Environmental Corporation (TRC)
6737 West Washington Street, Suite 3460
West Allis, WI 53214

Attention: Jeff Ramey, Principal Chemist
414-294-9247
jramey@trccompanies.com

1.2 Certified Hydrogeologist Certification

I, Scott Rademaker, 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	11/15/2024 Date

2.0 Introduction

2.1 Property Description and Information

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

A former limestone quarry is located on the northwest quadrant of the property and agricultural land is located on the southern portion of the property. A former homestead (house and barn) on the southern portion of the property is no longer present. A current property deed and certified survey map for the property at 2346 Clear View Road (parcel #061223285002 and parcel #061223290005) were provided in the previous SIR.

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

2.2 Background

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

- 1910 – Agricultural (dairy farm) use on southeast portion of property.
- 1945 – Limestone quarry operated by T&T Stone Co. Inc. on northwest portion of property.
- 2000 – A previous owner constructed of a natural gas- and fuel oil-fired power generation facility on the northeast portion of the property, which included three combustion turbines and generators, three aboveground storage tanks, and support structures.
- 2019 – Property transfer from the previous owner to a subsequent owner of RockGen Energy, LLC (RockGen).
- 2022 – Property transfer from RockGen to the current owner, Dairyland Power Cooperative (DPC).
- Current – The Site continues to operate as a natural gas- and fuel oil-fired power generation facility.

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

2.2.1 Investigation

TRC, on behalf of RockGen, prepared and submitted a site investigation work plan (SIWP) that was granted conditional approval by the WDNR on April 9, 2021. TRC conducted the initial phases of the site investigation from April through July 2021 in accordance with the SIWP and conditional approval letter. TRC submitted a Supplemental SIWP on August 6, 2021, for a second phase of investigation to further define the degree and extent of PFAS in groundwater that received WDNR approval on August 13, 2021. A site investigation report (SIR) summarizing the first phase of site investigation in the SIWP was submitted on September 24, 2021, and approved by the WDNR on April 11, 2022. The supplemental SIWP for a third phase of investigation was amended on March 13, 2023, and was approved by the WDNR on March 23, 2023.

2.2.2 Remediation

Based on the results from the initial site investigation activities, TRC submitted an Interim Action Workplan on July 23, 2021, describing proposed interim source control actions that received WDNR approval on July 30, 2021. A 100% design for the remediation was completed on October 29, 2021, and the technical specifications plan set was completed on December 10, 2021. Remedial construction was conducted from April through June of 2022 and documented in an NR 708 PFAS soil interim action and construction documentation report that was submitted on September 21, 2022, and approved by the WDNR on January 22, 2023. A cover system maintenance plan was submitted to the WDNR on March 10, 2023.

2.3 Purpose of Supplemental Site Investigation

The purpose of this site investigation is to:

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

2.4 Scope of Report

The purpose of this supplemental SIR is to provide a summary of the second and third phases of site investigation activities, investigation results, conclusions, and recommendations as scoped in the August 2021 Supplemental SIWP and March 2023 Supplemental SIWP Addendum completed through the end of the 2023 calendar year. The site investigation is not yet complete, as additional groundwater sampling of the existing monitor well network is recommended to monitor the extent of PFAS in groundwater over the four quarters of the 2024 calendar year.

3.0 Site Conditions

3.1 Topography

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

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

3.2 Site Features

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

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

Two high-capacity wells are currently in service and provide water for the power generation processes with the southernmost well, Well #1, also provides potable water at the Site. Potable water was routed to this well in the summer of 2022 as part of the remedial construction and the impacted potable well was abandoned, which is further detailed in the NR 708 PFAS soil interim action and construction documentation report. Well construction records for these wells indicate that the two deep production wells are both cased to 514 feet below ground surface (ft bgs) and installed to total depths of 982 and 1043 ft bgs, respectively.

Sanitary wastewater from the facility is routed to the newly constructed in spring/ summer of 2022 on-site septic system and mound drain field located in the grassy area east of the buildings, as shown on **Figure 4**. The design of the mound drain field is included in the NR 708 PFAS soil interim action and construction documentation report.

Newly capped areas of the Site, as of summer 2022, include a 5” asphalt cover near the fire suppression building and a geosynthetic membrane in the nearby piping infrastructure area and

western swale as shown in **Figure 2**. Design parameters for the cover system are included in the NR 708 PFAS soil interim action and construction documentation report.

3.3 Historical and Current PFAS Use

The historical use and release of PFAS is documented in detail in the previous SIR. In summary, Ansulite 3% AFFF (AFC-3A), a PFAS-based aqueous film forming foam (AFFF), was released by J.F. Ahern Co, a third-party vendor, who was conducting fire suppression and testing inspections on behalf of the previous owner of the facility starting in at least the year 2008 and ending in 2018. In December of 2021, the entire existing fire suppression system was removed from the facility, disposed of offsite, and replaced with a new system containing a non-fluorinated foam (Ansul NFF 3x3 UL201) as detailed in the NR 708 PFAS soil interim action and construction documentation report.

Since the initiation of this site investigation in April of 2021, no additional AFFF or PFAS has been released at the Site.

3.4 Potential Migration Pathways

The previously identified potential migration pathways discussed in the SIR included surface water runoff and the utility corridor in the AFFF inspection testing area, the drain field of the on-site septic mound, and the open borehole in the original potable well. All of these potential migration pathways no longer exist and have been mitigated by the remedial construction of the interim actions documented in the NR 708 PFAS soil interim action and construction documentation report.

3.5 Regional Geology and Hydrogeology

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

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

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

The nearest mapped surface water is an intermittent stream to the west of the Site located at an approximate elevation between 880 and 890 ft amsl. The intermittent nature of the stream indicates that it is located above the water table and is therefore not interpreted to be the nearest groundwater discharge point. The next closest surface water body is Koshkonong Creek, located to the east at an elevation of approximately 815 ft amsl and to the southeast at an elevation of approximately 810 ft amsl. Therefore, the shallowest groundwater at the Site is expected to flow to the east or southeast and discharge to Koshkonong Creek. This interpretation is supported by the 2016 Dane County Groundwater Flow Model, which predicts flow to the east/southeast in the vicinity of the Site (Parsen et al., 2016).

4.0 Site Investigation Methods

The investigation was completed in accordance with the August 2021 supplemental SIWP and March 2023 supplemental SIWP addendum.

4.1 Soil Investigation

Soil sampling was conducted in accordance with the supplemental SIWP addendum on August 29, 2023, with a modification. TRC completed soil sampling in and around the Site's stormwater basin using a rotary auger powered by a hand drill to advance soil borings from 0-1.5 ft bgs. The sampling included eight (8) soil borings (SB-27 through SB-34) at the locations shown on **Figure 5**, along with associated QC samples. The auger was decontaminated between soil borings by removing any soil from the auger using a paper towel followed by triple rinsing with PFAS-free water. An equipment blank, EB-01-20308 was collected as a rinsate of the auger following decontamination between soil borings SB-27-202308 and SB-28-202308. A field blank, FB-01-202308, was collected immediately prior to collecting the equipment blank.

Each of the samples were collected by donning a new pair of gloves and grabbing handfuls of soil from the soil boring to approximately halfway fill a gallon-sized Ziploc bag. The soil in the bag was homogenized by rotating and shaking the bag for approximately 30 seconds. Following homogenization, the soil was poured from the bag into a four-ounce glass jar which was closed with a lid and immediately placed in a cooler on ice. The soil borings were abandoned by pouring the remaining soil in the bag into the boring and the loose soil around the boring was pushed by hand into the boring. Soil boring logs are included in **Appendix A**.

4.2 Groundwater Investigation

The previous SIR documented the first phase of groundwater well installation and development which included seven (7) water table monitoring wells (MW-01 - MW-07) and one (1) piezometer (PZ-01) located onsite as depicted on **Figure 5**. Note, PZ-01 was constructed with a 10-foot screen screened from 290 feet bgs to 300 bgs, rather than the 5-foot screened interval for piezometers identified in NR 141.09. As a result the piezometer was not used to determine hydraulic gradients in this investigation. This supplemental SIR documents two additional phases of groundwater well installation. Two different types of monitoring wells were installed during these phases.

Two phases of Westbay® multiport monitoring well installation were conducted in accordance with the supplemental SIWP and supplemental SIWP addendum along with the installation of one more NR 141 compliant well. Westbay® multiport wells allow for a single bored well to be sampled at multiple discrete depth intervals. The Westbay® MP-38 System method for installation was followed and completed with stick-up covers for the multiport wells.

4.2.1 Phase 2 Groundwater Investigation – Fall/ Winter 2021

4.2.1.1 Multiport Well Installation and Development

Prior to the installation of multiport wells at the Site, Westbay®, the manufacturer of the wells was contacted to confirm that their wells and components were PFAS-free. Five (5) Westbay® multiport wells (MP-01 - MP-05) were installed onsite from October 2021 through December 2021. Cascade Environmental (Cascade) was subcontracted to conduct the drilling and assist with well

installation. The design of each multiport well was to create eight (8) depth intervals from the top of the water table (approximately 50 ft bgs) to 300 ft bgs with packers isolating and separating the different strata expected to be present in the subsurface based on the regional geology.

Two drill rigs, one full-sized rotosonic rig and one mini-sonic rig, were mobilized by Cascade to expedite the drilling and well installation schedule. Drilling commenced with each crew conducting mud rotary drilling with a 6" rotary drill bit and removing the top 1.5'x1.5' area of soil as specified in the supplemental SIWP. Difficulties with the rotary drill bit becoming stuck in sandstone was experienced in the drilling of the first well at a depth of 210 ft bgs and over-drilling an 8" borehole was required. This well (MP-01X) had to be abandoned as the 8" borehole is too wide for the packers in the Westbay® well system to be able to seal. The well abandonment form is provided in **Appendix A**.

Soil boring logs for the abandoned well and multiport wells MP-01 – MP-05 are located in **Appendix A** and the location of the wells are depicted on **Figure 5**. The relocated MP-01 and the beginning of MP-02 were drilled using the mud rotary technique. At 98 ft bgs at MP-02, the Cascades mini-sonic crew switched to a hammer drilling technique to lessen the likelihood of getting stuck in sandstone. The drilling returns from hammer drilling were poor compared to the mud rotary method and gamma ray logging was conducted on the boreholes for all wells immediately prior to installing the multiport wells. Earth Data Northeast (EDN) was subcontracted to lead well design and installation and issued the Westbay® completion report in **Appendix B**.

The borehole for MP-02 was successfully drilled to the design depth but the 6" casing got stuck in the sandstone at 167 ft bgs which ultimately resulted in the over-drilling of the upper portion of this well and loss of the three uppermost depth intervals, which were combined into one interval. The mini-sonic rig was then demobilized from the site and the remaining multiport wells MP-03, MP-04, and MP-05 were all drilled using the full-sized rig and hammer drilling technique. Wells MP-03 and MP-04 were drilled and installed as designed. On December 2, 2021, Luke Lampo of the WDNR, was onsite to observe the installation of MP-04. The process for installing and developing a Westbay® multiport well at the Site was as follows:

- After the borehole was completed and with the 6" casing in place, approximately 200 gallons of water was purged from the well using a Waterra pump.
- The components of the Westbay® multiport well would be laid out in sequential order starting with the bottom of the well.
- Each well component (casing, uninflated packer, coupling, pumping port, measurement port, and magnetic collar) would be assembled on the drill rig and lowered through the drill casing.
- After the entire well was built and lowered in place, the drill casing would be lifted from the borehole until it was just above the deepest uninflated packer and the packer would be inflated and pressure tested.
- The drill casing would then be lifted to just above the next deepest packer and this process was repeated until all of the packers were inflated and the drill casing was removed from the borehole.

During the inflation of the upper most packer for multiport well MP-05, it is suspected that this packer came into contact with the drill casing when the drill casing was lifted resulting in bending the well and rendering the ports below the uppermost interval inaccessible to the sampling tool

used to collect samples from a Westbay® multiport well. A down hole fiberoptic camera was used to record a video inspecting MP-05. Magnetic coupling was observed from 55 ft bgs to the damaged coupling at 63 ft bgs which cannot be advanced by the Westbay® sampling tool.

4.2.1.1.1 Gamma Ray Logging

Gamma ray logging was conducted using a QL40-GR – Natural Gamma logger with LoggerSuite V 13.5.2 software before installing wells MP-01 to MP-05. Gamma logging helped identify and characterize stratigraphic formations from ground surface to the borehole base. Westbay System packers were then used to prevent water infiltration from other formations by inflating them at identified formation boundaries. The LoggerSuite software used an antiquated file format that could not be digitally resolved into a usable file, however, screenshots of the field monitor were taken to capture the gamma ray log data from each of the multiport wells. This data is included in **Appendix C**. The gamma ray logs depict two responses of gamma counts per second (cps) and dead-time corrected (dtc) gamma cps on the X-axis plotted against distance in feet on the Y-axis (this distance is approximately ft bgs as the logger descends through the drilling casing of the borehole).

Two runs of data were collected from multiport wells MP-01 and MP-02 with the first run being collected by lowering the logging tool down through the hollow drilling casing and recording data from the ground surface to the bottom of the wells. The second run from wells MP-01 and MP-02 was recorded from raising the logging tool from the bottom of the wells to the ground surface. After determining the same response from each method of logging data, wells MP-03 – MP-05 were gamma ray logged in one run by lowering the logging tool from the surface to the bottom of the respective well.

4.2.2 Phase 3 Groundwater Investigation – Spring 2023

Prior to the mobilization for the third phase of groundwater monitoring well installation, an access agreement was signed with the owner of two adjacent offsite parcels. The location of the wells on these parcels were contingent on meeting the following conditions: any well on Parcel 061215495005 shall be located within forty feet (40') of the edge of the right of way for Koshkonong Road; and any well on Parcel 061223281000 or Parcel 061223295010 shall be located within twenty feet (20') of the edge of the right of way for Carpenter Swain Road.

4.2.2.1 Multiport Well Installation and Development

In April and May of 2023, three Westbay® multiport wells (MP-06 – MP-08) were drilled by Cascade using a full-sized track mounted rotosonic drill rig with a hammer drill and the wells were designed and installed by EDN. MP-06 was installed immediately downgradient of the stormwater basin and on the northwest corner of the RockGen property. MP-07 and MP-08 were installed down gradient of the Site at locations as far east into Parcel 0612232950 as allowable in the access agreement. The locations of these multiport wells are depicted in **Figure 5**. Multiport wells MP-06, MP-07, and MP-08 were drilled to depths of 250 ft bgs and consist of six sample intervals oriented to capture the same lithographic layers as multiport wells MP-01 through MP-05. The design of the new wells are located in the Westbay® completion report in **Appendix B**.

4.2.2.2 NR 141 Monitoring Well Installation and Development

In April of 2023, one Site upgradient NR 141 compliant monitoring well (MW-08) was installed to intersect the water table in the off-site farm field immediately north of Koshkonong Road (parcel 061215495005) and the Site stormwater basin, as depicted in **Figure 5**. The borehole for the monitoring well was installed using a water hammer drilling method. The well was constructed with schedule 40 PVC and 10-ft screen. Boring log and well construction forms are provided in **Appendix A**.

The monitoring well was developed in accordance with NR 141 by bailing with disposable HDPE bailers and then pumping with a submersible pump if the well did not bail dry. Well development forms are provided in **Appendix A**.

4.2.3 Site Groundwater Monitoring

Two groundwater monitoring events were conducted in May and July 2021 on the first phase/orientation of the monitoring well network (MW-01 – MW-07 and PZ-01) and the results were included in the previous SIR. A total of seven additional quarterly groundwater sampling events were conducted across two different orientations of the monitoring well network as follows:

- Phase 2: MW-01 – MW-07; PZ-01; MP-01 – MP-05. January, April, July, October 2022
- Phase 3: MW-01 – MW-08; PZ-01; MP-01 – MP-08. June, August, November 2023

The gaps in quarterly sampling for the third and fourth quarter of 2022 and first quarter of 2023 were established in the supplemental SIWP and supplemental SIWP addendum to allow for the installation of the next phases of the groundwater monitoring well network and to allow adequate time for the multiport wells to equilibrate with the groundwater since these wells are not developed by pumping.

For each of the sampling events, all intervals (capable of being sampled) within the multiport wells, all water table wells (that were not dry), and the piezometer were sampled. The water table monitoring well sampling was conducted using a portable bladder pump. Piezometer sampling was conducted using the dedicated bladder pump. Multiport wells were sampled using Westbay's® MOSDAX Sampler Probe. Water levels in the NR 141 compliant water table wells and piezometer were all measured within the same day during the quarterly monitoring events. Pressure readings from the multiport wells were collected over a two- or three-day period during each quarterly monitoring event which were used to calculate groundwater elevations in the multiport wells. Groundwater elevation and pressure measurements are provided in **Tables 1-3**.

4.3 Surface Water Sampling

Surface water sampling of the stormwater basin in the northwest corner of the Site on was conducted on April 12 and 13, 2023. TRC staff wearing waders walked near to the center of the basin and located an area with visibly clear water for each sample. The depth of water in the basin at the time of sampling was approximately three feet. The April 12th sample was collected from the surface of the water by removing the cap from the 250-mL and 1-L bottles and filling them using a sweeping motion across the surface of the water, being careful to not create turbid conditions and re-suspend solids that had settled in the basin. The April 13th sample was collected

approximately 6-inches below the surface of the water by suspending the 250-mL and 1-L bottles by hand below the surface with the cap on the bottle and then removing the cap.

4.4 Stormwater Sampling

A post-remedial construction stormwater sample was collected from the storm sewer outlet (as shown on **Figure 2**) during a rain event on March 14, 2024. Precipitation started several hours prior to the arrival of TRC field staff and the exact time of the start of flow at the outlet is unknown. The sample was collected from the flow of the storm sewer outlet by submerging laboratory provided 250-mL and 1-L plastic containers approximately 4-inches beneath the surface of the flowing water.

4.5 Sample Analysis

Soil and water samples were analyzed for 33 PFAS analytes using the Wisconsin PFAS Aqueous (Non-Potable Water) and Non-Aqueous Matrices Method Expectations by Eurofins West Sacramento, California under NR 149 certification number 998204680. Stormwater and surface water samples were also analyzed for total suspended solids (TSS) using EPA Method 2540D.

4.6 Investigation-Derived Waste

Investigation-derived waste (IDW) generated during this investigation included decontamination fluids, soil cuttings/excess sample material, rock cuttings and mud tub cuttings from rotosonic drilling, cuttings from mud rotary drilling, purge water and development water from the monitoring wells, and general refuse (e.g., used personal protective equipment, single-use sampling equipment, and trash). IDW was brokered on behalf of RockGen by Sustain, LLC (Sustain). The IDW generated during the first phase of groundwater investigation and soil investigation from April through July of 2021 remained containerized in polytanks and drums at the Site at the beginning of this investigation.

4.6.1 Aqueous IDW

Nine (9) 1,500-gallon polytanks are staged at the Site for the containment of aqueous IDW generated during the three phases of the investigation and groundwater monitoring. A temporary 22,000-gallon frac tank with secondary containment and two sumps was installed onsite in November of 2021 and removed in April of 2022. The polytanks are used to contain aqueous IDW generated during conditions when daily temperatures were generally above freezing and the temporary frac tank was used during the second phase of groundwater monitoring well installation that occurred when the general daily temperatures were below freezing. Sustain coordinated disposal using 5,000-gallon vac trucks to transport aqueous IDW to Valicor's permitted centralized wastewater treatment (CWT) facility in Dearborn, Michigan. A waste profile for the material was prepared using the soil analytical data generated from the initial site investigation in April and May 2021 and is included in **Appendix D**. From October 2021 through November 2023, approximately 60,000-gallons of aqueous IDW was disposed of at Valicor's facility. A copy of the most recent waste manifest is included in **Appendix D** and hard copies of waste manifests are stored on Site.

4.6.2 Solid IDW

55-gallon drums were used to contain cuttings and solid material from drilling. US Ecology's Wayne Disposal facility, a permitted hazardous waste landfill located in Belleville, Michigan, was

selected for transportation and disposal of PFAS impacted cuttings and rock from RockGen. A waste profile for the material was prepared using the soil analytical data generated from the initial site investigation in April and May 2021 and this waste profile was provided in the NR 708 Construction Report. On December 8, 2021, eighty-eight (88) 55-gallon drums were transported from the Site to the Wayne Disposal facility for landfilling.

General refuse was collected in trash bags and placed in a waste dumpster.

4.7 Deviations from SIWPs

Site conditions and/ or opportunities for efficiencies warranted deviating from the supplemental SIWP and supplemental SIWP addendum. These deviations are noted previously and/ or below:

- The first multiport well, MP-01X, was abandoned due to issues drilling in the subsurface.
- Drilling techniques changed from mud rotary to hammer drilling partway during phase 2 and for all of the phase 3 groundwater monitoring well investigation.
- Multiport wells MP-02 and MP-05 function with only six and two depth intervals, respectively, due to issues drilling and well installation.
- The surface soil sampling methodology was changed from direct push to rotary powered auguring for the third phase of investigation.
- MW-02 was dry during the January and April 2022 groundwater monitoring events and a sample was not collected. It appears that the well screen may not extend into the water table when groundwater levels at the Site are low.
- Two surface water samples from the stormwater basin were collected rather than one to determine if the sampling techniques of surface collection and submerged collection would affect the PFAS results.

5.0 Results

5.1 Geology and Hydrogeology

5.1.1 Soil and Bedrock Units

In the previous SIR, the depth to bedrock was observed to range from approximately 1 to 16 feet bgs. The uppermost carbonate bedrock interpreted as dolomite to extend to approximately 51-56 feet bgs at the Site. Sandstone was observed from 54-86 feet bgs, dolomite from 86-158 feet bgs, and sandstone from 158-300 feet bgs. Boring logs from MP-01 through MP-05 largely confirmed this stratigraphy, with the exception of MP-01 and MP-04 which contained varying degrees of dolomitic stratigraphy. MP-01 exhibited a dolomitic composition from 170 to 210 feet and MP-04 exhibited dolomitic composition from 104 to 240 feet. Boring logs are included in **Appendix A**.

5.1.2 Hydrogeology

Groundwater elevations measured in the water table wells and piezometers from May 2021 through the 2023 calendar year are summarized in **Table 1**. The multiport wells measured in the 2022 and 2023 calendar years are summarized in **Tables 2-3**. The groundwater elevations measured in the NR 141 compliant water table wells and piezometer were measured using a water level indicator that was lowered into the well. All measurements were taken on the same day during a quarterly sampling event within approximately a two-hour time period. The groundwater elevations in the multiport wells were calculated from pressure readings on the Westbay® sampling tool collected over two- to three- days of sampling during each quarterly sampling event. Because of this difference, the groundwater elevations for the water table wells only were used to estimate the groundwater flow direction. Water table contour data was used to calculate a southeasterly groundwater flow direction. A groundwater flow direction figure from the November 2023 sampling event is shown as **Figure 6**. This flow direction is concurrent with the groundwater flow direction at the water table was generally to the southeast based on the May and July 2021 measurements as noted in the previous SIR. Water table contours and flow direction depicted from the November 2023 sampling event shown on **Figure 6** also indicate that groundwater at Site generally flows to the southeast.

5.2 Analytical Results

Analytical results are provided in **Tables 4-7**. Laboratory reports were previously submitted to the WDNR in interim submittals and are available on BRRTS. As such, copies of these laboratory reports are not included with this report. All analytical testing was conducted using the Eurofins West Sacramento, California laboratory and their NR 149 certification for the Wisconsin PFAS Aqueous (Non-Potable Water) and Non-Aqueous Matrices Method Expectations and list of 33 PFAS compounds.

5.2.1 Data Usability Review

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

- sample receipt, as noted in the cover page or case narrative;

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

All data were determined to be usable for the purpose of this report. Data validation qualifiers assigned are listed in **Tables 4-7**.

5.2.2 Soil Results

Soil sample results are presented in **Table 4** and analytical results from equipment blank and field blank samples are presented in **Table 5**. Soil sample results from the upper four feet were evaluated against NR 720 direct contact residual contaminant levels (RCLs) and to generic and calculated site-specific criteria for the protection of groundwater for the same compounds. These compounds include perfluorooctanoic acid (PFOA), perfluorobutane sulfonic acid (PFBS), and perfluorooctane sulfonic acid (PFOS). The previous SIR established a narrative assumption that the actual residual contaminant levels for the protection of groundwater (GW-RCLs) for PFOS and PFOA are above the generic criteria provided using WDNR's guidance document PUB-RR-890 (WDNR, 2014) and the proposed NR 140 enforcement standards (ESs) and below the site-specific criteria calculated using GSI Environmental's *Risk-Based Corrective Action (RBCA) Tool Kit for Chemical Releases, version 2.6* (GSI Environmental, 2013).

Figure 7 depicts the results of the soil sampling in and around the stormwater basin conducted during the third phase of the investigation in August 2023 and the previous sampling conducted in the drainage channel in the northwest forested area during the first phase of the investigation. Detections of PFOA, PFOS, and 8:2 fluorotelomer sulfonic acid (8:2 FTS) are shown on the figure. The highest concentration of PFOA at 2.6 micrograms per kilogram (ug/kg) (and other PFAS compounds) was detected at SB-34 which is located in the southeast corner of the stormwater basin directly where the drainage channel flows. The lowest point of the stormwater basin was sampled at SB-33 and no PFAS concentrations were detected above the direct contact or generic or site-specific GW-RCLs. The perimeter of the stormwater basin was sampled and with the

exception of SB-29 (which is near the drainage channel), all PFOA concentrations were well below the criteria. This is an indication that the soil around the perimeter of the basin is not impacted from the historical release of AFFF. This is further supported by the lack of detections of other AFFF indicator PFAS compounds associated with the source at the Site such as 8:2 FTS. Some low-level concentrations of PFOS were detected around the perimeter of the stormwater basin but this is likely associated with background and does not affect the surface water in the basin or the groundwater at the nearby downgradient multiport monitoring well (MP-06) as further discussed in this report.

5.2.3 Groundwater Results

Groundwater results collected from May 2021 through the end of the 2023 calendar year are summarized and compared to the WDNR Cycle 10 and 11 proposed NR 140 groundwater standards in **Table 6**. As observed in the groundwater and documented in the previous SIR, the PFAS compounds detected at the highest concentrations were 6:2 fluorotelomer sulfonic acid (6:2 FTS) and 8:2 FTS and the perfluorocarboxylic acids (PFCAs) of carbon chain lengths ranging from C4 - C8 [perfluorobutanoic acid (PFBA,) perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA), and PFOA]. The source of PFAS detected in the groundwater wells shows the same forensic signature documented in the previous SIR for Ansulite 3% AFFF (AFC-3A), the second generation AFFF released at the Site and characterized by high ratios of 6:2 and 8:2 FTS with distributions of PFCAs ranging from carbon chain lengths of C4 – C9. The highest concentrations of PFAS were detected in the now asphalt capped AFFF testing area well (MW-04) and immediately downgradient well (MP-01) located just southeast of the AFFF testing area on the other side of the water tank, as shown on **Figure 5**.

Of the PFAS compounds detected in the groundwater at the Site, PFOA is the contaminant of concern for characterizing the extent of contamination. Groundwater enforcement Standard (ES) and/or preventive action level (PAL) exceedances exist in select monitoring wells for perfluorononanoic acid (PFNA), PFOS, and perfluorohexane sulfonic acid (PFHxS) but in every instance there is also an ES or PAL co-located exceedance for PFOA as shown in **Table 6**. Thus, this SIR will characterize the nature and extent of the groundwater plume in terms of PFOA concentrations.

In December of 2022, TRC conducted a technical assistance meeting with the WDNR to discuss the site investigation progress, conceptual site model (CSM), and proposed next steps for the site investigation. At the time of this meeting, groundwater data was available from Phase 2 of the investigation (water table wells MW-01 – MW-07, multiport wells MP-01 – MP-05, and the piezometer PZ-01). The dynamic format of the meeting allowed for the CSM to be visualized through the use of an interactive 3-D model using Earth Volumetric Studio (EVS) to show the vertical and lateral extent of the PFOA groundwater plume. The model was utilized to determine the location of the two downgradient multiport wells that would be installed in Phase 3 of the investigation. MP-07 was selected to be located where the modeled PFOA concentration in select interval(s) would be near the proposed NR 140 ES of 20 nanograms per liter (ng/L). MP-08 was selected to be located where the PFOA modeled concentration in a single interval would be detected above the laboratory's reporting limit of 0.5 ng/L and near the proposed PAL of 2 ng/L.

A PFOA groundwater isoconcentration map using the groundwater data from the November 2023 sampling event is attached as **Figure 8**. The isoconcentration map shows a continuous PFOA groundwater plume with two separate areas in which the concentration of PFOA is an order of magnitude above the proposed ES. **Figures 9 and 10** depict cross-sectional views of the Site's

PFOA groundwater plume from the upgradient monitoring well (MW-08) through the entirety of the Site to MP-08 using the November 2023 quarterly groundwater monitoring data.

The 1,000 ng/L PFOA isocontour is isolated to the groundwater in and around the AFFF testing area. This plume extends southeast, concurrent with the directional flow of groundwater. The PFOA concentration in the groundwater decreases with distance from the source area to below the PAL at 1.4 ng/L in the 80 – 112 ft bgs interval in MP-08, which is approximately 700 ft away from AFFF testing area. The maximum vertical extent of the PFOA plume is approximately 220 ft bgs as evidenced by non-detections of PFOA in deeper intervals in the source area well (MP-01) and nearby downgradient wells (MP-02 and MP-04). As shown in **Figures 9 and 10**, the vertical extent of the PFOA groundwater plume decreases and thins out from the top of the water table (59.81 ft bgs in November of 2023) to a point near MP-08 at a depth of 80 – 112 ft bgs.

The Site upgradient well (MW-08) was absent of PFOA detections in all but one of the quarterly sampling events where there was a detection slightly above the PAL. In the northwest corner of the Site where the stormwater basin is located, the source of PFAS is suspected to be the AFFF used when testing the fire suppression system that flowed through the storm sewer and discharged to the swale in the forested area that ultimately leads to the basin. **Figures 9 and 10** show the highest concentration of PFOA at the water table immediate downgradient from the stormwater basin and only extending to a depth of approximately 70 ft bgs (the second interval in MP-06).

Occasionally, trace detections of select PFAS compounds occur in the deepest intervals of select multiport wells, including PFOA in MP-06 during the November 2023 quarterly groundwater sampling event. These detections do not occur on a consistent basis and were observed more frequently during the quarterly sampling events conducted soonest after well installation. When these detections occur, at least the two depth intervals above the lowest interval are non-detect for PFOA. It is possible that these detections could be the result of well construction and they do not appear to be hydraulicly connected to the rest of the PFOA groundwater plume. For this reason, the plume modeled in **Figures 9 and 10** are depicted without a PFOA detection in the lowest interval of MP-06.

5.2.4 Gamma Ray Logging Results

Gamma ray logs for borings MP-01 through MP-04 were analyzed to identify consistent stratigraphy across the site. Variations in gamma counts per second (cps) at specific depths signal potential changes in the subsurface layers. Compared to field observations from drill cuttings, gamma ray logs provide a more precise method for determining stratigraphic boundaries. The gamma cps variations observed in each borehole occur at similar depths, suggesting a consistent stratigraphy throughout the site. The general stratigraphy includes:

- Sinnipee Group (dolomite): 10 to 57 feet below ground surface (bgs)
- Ancell Group (sandstone): 57 to 125 feet bgs
- Prairie du Chien Group (dolomite): 125 to 156 feet bgs
- Trempealeau Group (sandstone): 156 to 300 feet bgs

Changes in cps (counts per second) were analyzed in relation to regional geology to determine optimal packer placement in each multiport well, allowing for isolation of specific geologic layers. For example, in MP-01 and MP-04, packers were installed from 152 to 155 ft bgs to separate interval three from interval four. This placement effectively isolates the dolomite of the Prairie du

Chien Group from the underlying sandstone of the Trempealeau Group. Gamma ray logging results are presented in **Appendix D**.

5.2.5 Surface Water Results

Surface water sampling results are presented in **Table 7** and compared to the existing NR 102, 105, and 106 non-drinking water source surface water standards for PFOA and PFOS. The two surface water samples collected with the slightly different sampling techniques described in Section 4.3 had statistically similar results. PFOA in each sample was detected at a concentration of 13 ng/L, which is below the non-drinking water source surface water standard of 95 ng/L and PFOS was not detected in either of the samples.

5.2.6 Stormwater Results

The previous SIR included stormwater sampling prior to remedial construction and the results indicated that PFAS matching the forensic signature of the AFFF released at the Site were present in the stormwater. The results from the pre- and post-remediation stormwater samples are included in **Table 7**. Trace concentrations of PFAS compounds included in the AFFF signature were detected in the post-remediation sample. PFOA was detected at 1.9 ng/L and the PFAS compound detected with the highest concentration was 8:2 FTS at 4.1 ng/L; this was a significant reduction from the pre-remediation stormwater samples that had concentrations of 8:2 FTS at 130 ng/L and 180 ng/L in the first flush and post flush samples, respectively. The PFAS concentrations detected in the post-remediation sample are below surface water criteria and indicate that the areas capped in the remediation of the Site are no longer migration pathways for PFAS runoff or migration to groundwater.

5.3 Potential Groundwater Receptors

Potential off-Site impacts to water supply wells were evaluated within a 1,200 ft radius of the Site in the previous SIR and potential impacts to off-site receptors were determined to not exist. Potential impacts to on-site receptors were eliminated in the summer of 2022 when the on-site impacted potable well was abandoned and the Site potable water source was rerouted to the clean deep industrial Well #1 as documented in the NR 708 PFAS soil interim action and construction documentation report.

5.4 Vapor and Emerging Contaminants

As stated in the previous SIR, the investigated contaminants of concern continue to not pose a vapor pathway risk or concern for the presence of 1,4-dioxane or other emerging contaminants.

6.0 Conclusions and Recommendations

6.1 Conclusions

The results of the second and third phases of soil, groundwater, stormwater, and surface water investigation at the Site still indicate that a single source of PFAS, the AFFF released when testing the fire suppression system, exists.

The areas of highest soil contamination at the Site are located within the AFFF testing area, which is above the area of highest groundwater contamination and has already been remediated by capping to end the infiltration pathway of PFAS to groundwater. The extent of soil contamination at the Site appears to be delineated with the soil sampling event conducted in August of 2023 that shows the extent of soil impact to be constrained to the low point of the southeast corner of the storm water basin and not extending beyond the berms of the basin.

The reduction of PFAS concentrations from the pre- and post-remediation stormwater samples indicate that the asphalt capping of the fire inspection area and the geosynthetic membrane cover of the western swale are effective remedies for eliminating the stormwater migration pathway of PFAS at the Site.

The results of the surface water sampling indicate that the stormwater basin is not impacted by the source at PFOA or PFOS concentrations above the surface water criteria.

The nature and extent of PFAS and PFOA in groundwater is established by the existing monitoring well network of NR 141 compliant and multiport monitoring wells. The Site's upgradient well indicates that there is not a source of PFAS that extends from the northwestern corner of the Site from the stormwater basin. The downgradient extent of the PFOA plume is constrained by the furthest downgradient well to a concentration below the respective PAL. The predictive model used to determine the location of the downgradient monitoring wells MP-07 and MP-08 proved to be accurate and would be a possible viable option to be used to model PFOA groundwater concentrations in areas of the Site where the installation of groundwater monitoring wells is inaccessible.

6.2 Recommendations

6.2.1 No Further Action

Based on this and the previous SIRs, no further action is recommended and requested for any additional future sampling of the following media:

- Soil
- Surface Water
- Stormwater

6.2.2 Supplemental Site Investigation

The Site upgradient monitoring well (MW-08) and the two furthest downgradient monitoring wells (MP-07 and MP-08) have only been sampled for three quarters. Continued quarterly sampling of the entire groundwater monitoring well network is recommended to be conducted for the four quarters of the 2024 calendar year. The analytical method for PFAS testing should be the Wisconsin PFAS Aqueous (Non-Potable Water) and Non-Aqueous Matrices Method Expectations or EPA Method 1633 if a final approved standard operating procedure is available from a NR 149 certified laboratory. One round of method 1633 groundwater testing results may be adequate for the site investigation given the robustness of the dataset available for comparison. After completion of the four quarters of groundwater sampling, another supplemental SIR will be prepared and submitted to the WDNR.

7.0 References

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Table 1 - Water Table Well and Piezometer Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MW-01		MW-02		MW-03		MW-04		MW-05		MW-06		MW-07		MW-08		PZ-01	
Top of Casing Elevation (ft amsl)	930.73		941.55		942.03		943.25		945.48		941.84		941.63		889.23		944.95	
Ground Surface Elevation (ft amsl)	928.28		938.88		939.53		940.77		942.92		939.40		939.14		886.76		942.57	
Top of Screen Elevation (ft amsl)	893.7		891.4		889.9		891.1		889.4		889.5		890.7		833.7		652.6	
Bottom of Screen Elevation (ft amsl)	878.7		881.4		874.9		876.1		874.4		874.5		875.7		818.7		642.6	
Screen Length (ft)	15		10		15		15		15		15		15		15		10	
Date	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
5/17/2021	44.88	885.85	56.77	884.78	57.92	884.11	58.45	884.80	60.95	884.53	57.44	884.40	57.45	884.18	--	--	--	--
5/27/2021	45.37	885.36	57.15	884.40	58.32	883.71	58.82	884.43	61.41	884.07	57.77	884.07	58.04	883.59	--	--	--	--
7/14/2021	44.98	885.75	56.83	884.72	58.04	883.99	58.52	884.73	60.98	884.50	57.67	884.17	58.30	883.33	--	--	99.97	844.98
1/18/2022	48.76	881.97	59.85	881.70	61.30	880.73	61.74	881.51	64.44	881.04	60.56	881.28	60.62	881.01	--	--	100.80	844.15
4/12/2022	46.82	883.91	58.92	882.63	60.93	881.10	60.41	882.84	63.49	881.99	59.77	882.07	62.60	879.03	--	--	100.64	844.31
7/26/2022	44.94	885.79	57.32	884.23	59.20	882.83	58.52	884.73	61.71	883.77	59.14	882.70	60.16	881.47	--	--	101.12	843.83
10/11/2022	45.57	885.16	57.59	883.96	59.63	882.40	59.47	883.78	62.35	883.13	59.04	882.80	59.91	881.72	--	--	100.07	844.88
6/13/2023	43.51	887.22	55.53	886.02	56.54	885.49	57.06	886.19	59.53	885.95	56.10	885.74	56.02	885.61	4.94	884.29	99.35	845.60
8/29/2023	45.75	884.98	57.93	883.62	58.59	883.44	59.01	884.24	61.72	883.76	58.01	883.83	57.63	884.00	6.81	882.42	100.73	844.22
11/7/2023	46.85	883.88	58.15	883.40	59.79	882.24	59.81	883.44	62.72	882.76	59.18	882.66	59.40	882.23	7.78	881.45	100.35	844.60

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

Prepared by: L. Auner 5/27/21
Checked by: Steve Sellwood 5/27/2021
Updated by: W. Braga / L. Auner 7/29/2021
Checked by: A. Enright 7/29/2021
Updated by: S. Litwin 3/21/2024

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-01																		
Top of Casing Elevation (ft amsl)	943.88							943.88							943.88						
Ground Surface Elevation (ft amsl)	941.47							941.47							941.47						
Date	1/21/2022							4/12/2022							7/27/2022						
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	051-088	14.45	19.52	11.7	60.3	883.58	-	051-088	14.12	20.11	13.82	58.18	885.70	-	051-088	14.21	20.53	14.58	57.42	886.46	2.20
2	091-118	14.45	32.5	41.64	60.36	883.52	-	091-118	14.12	32.96	43.46	58.54	885.34	-	091-118	14.21	33.38	44.22	57.78	886.10	34.80
3	121-152	14.45	45.3	71.16	60.84	883.04	-	121-152	14.12	45.73	72.92	59.08	884.80	-	121-152	14.21	46.26	73.93	58.07	885.81	1.90
4	155-195	14.45	64.3	114.99	61.01	882.87	-	155-195	14.12	64.71	116.7	59.3	884.58	-	155-195	14.21	65.23	117.69	58.31	885.57	13.50
5	198-220	14.45	73.2	135.52	73.48	870.40	-	198-220	14.12	73.12	136.1	72.9	870.98	-	198-220	14.21	72.63	134.76	74.24	869.64	5.10
6	223-250	14.45	81.9	155.59	78.41	865.47	-	223-250	14.12	82	156.59	77.41	866.47	-	223-250	14.21	82.01	156.4	77.6	866.28	1.70
7	253-274	14.45	86.49	166.18	92.82	851.06	-	253-274	14.12	85.45	164.54	94.46	849.42	-	253-274	14.21	85.18	163.71	95.29	848.59	7.00
8	277-293	14.45	92.68	180.46	97.54	846.34	-	277-293	14.12	92.67	181.2	96.8	847.08	-	277-293	14.21	92.45	180.48	97.52	846.36	20.70

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-01 (continued)							MP-02												
Top of Casing Elevation (ft amsl)	943.88							945.76							945.76					
Ground Surface Elevation (ft amsl)	941.47							943.52							943.52					
Date	10/13/2022							1/21/2022							4/12/2011					
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	051-088	14.09	20.27	14.26	57.74	886.14	3.1	SWL-150	14.47	30.07	35.99	83.01	862.75	-	SWL-150	-	-	-	-	-	-
2	091-118	14.09	33.17	44.01	57.99	885.89	33.6	153-195	14.47	57.2	98.57	75.43	870.33	-	153-195	14.21	57.22	99.22	74.78	870.98	-
3	121-152	14.09	46.03	73.68	58.32	885.56	4.2	198-220	14.47	70.22	128.9	75.1	870.66	-	198-220	14.21	70.37	129.55	74.45	871.31	-
4	155-195	14.09	65.01	117.46	58.54	885.34	13	223-250	14.47	80.95	153.66	80.34	865.42	-	223-250	14.21	80.97	154	80	865.76	-
5	198-220	14.09	72.69	135.18	73.82	870.06	3.9	253-276	14.47	88.46	170.98	93.02	852.74	-	253-276	14.21	87.53	169.13	94.87	850.89	-
6	223-250	14.09	82.09	156.86	77.14	866.74	5.3	279-300	14.47	95.55	187.34	97.66	848.10	-	279-300	14.21	95.6	187.75	97.25	848.51	-
7	253-274	14.09	85.43	164.57	94.43	849.45	9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	277-293	14.09	92.84	181.66	96.34	847.54	47.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-02 (continued)														MP-03						
Top of Casing Elevation (ft amsl)	945.76							945.76							937.79						
Ground Surface Elevation (ft amsl)	943.52							943.52							934.94						
Date	7/27/2022							10/12/2022							1/19/2022						
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	SWL-150	-	-	-	-	-	-	SWL-150	-	-	-	-	-	-	46-80	14.35	18.07	8.58	53.42	884.37	-
2	153-195	14.19	57.14	99.08	74.92	870.84	-	153-195	14.08	57.1	99.24	74.76	871.00	>1000	83-117	14.35	34.07	45.49	55.51	882.28	-
3	198-220	14.19	69.97	128.67	75.33	870.43	4.10	198-220	14.08	69.99	128.97	75.03	870.73	4.8	120-157	14.35	51.96	86.76	55.24	882.55	-
4	223-250	14.19	80.85	153.77	80.23	865.53	3.50	223-250	14.08	80.87	154.07	79.93	865.83	1.3	160-187	14.35	60.91	107.40	63.6	874.19	-
5	253-276	14.19	87.18	168.37	95.63	850.13	3.20	253-276	14.08	87.46	169.27	94.73	851.03	7.8	190-217	14.35	73.05	135.41	65.59	872.20	-
6	279-300	14.19	95.37	187.27	97.73	848.03	3.00	279-300	14.08	95.7	188.28	96.72	849.04	4.2	220-242	14.35	84.55	161.94	69.06	868.73	-
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	245-227	14.35	90.22	175.02	85.98	851.81	-
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	280-300	14.35	97.07	190.82	90.18	847.61	-

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-03 (continued)																		
Top of Casing Elevation (ft amsl)	937.79							937.79							937.79						
Ground Surface Elevation (ft amsl)	934.94							934.94							934.94						
Date	4/12/2022							7/26/2022							10/11/2022						
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	46-80	14.23	18.74	10.4	51.6	886.19	-	46-80	14.25	19.35	11.76	50.24	887.55	2.00	46-80	14.21	19.2	11.51	50.49	887.30	4.6
2	83-117	14.23	34.73	47.29	51.71	886.08	-	83-117	14.25	35.4	48.79	50.21	887.58	2.20	83-117	14.21	35.18	48.37	50.63	887.16	4.3
3	120-157	14.23	52.55	88.4	52.6	885.19	-	120-157	14.25	53.24	89.94	51.06	886.73	7.30	120-157	14.21	53.06	89.62	51.38	886.41	3.6
4	160-187	14.23	61.23	108.42	62.58	875.21	-	160-187	14.25	60.7	107.15	63.85	873.94	3.20	155-192	14.21	60.59	106.99	64.01	873.78	3.6
5	190-217	14.23	73.23	136.1	64.9	872.89	-	190-217	14.25	72.75	134.95	66.05	871.74	0.50	190-217	14.21	72.29	133.98	67.02	870.77	1.3
6	220-242	14.23	84.89	163	68	869.79	-	220-242	14.25	84.81	162.77	68.23	869.56	5.30	220-242	14.21	84.9	163.07	67.93	869.86	5
7	245-227	14.23	88.69	171.76	89.24	848.55	-	245-227	14.25	88.5	171.28	89.72	848.07	1.10	245-227	14.21	88.86	172.2	88.8	848.99	3.9
8	280-300	14.23	97.14	191.26	89.74	848.05	-	280-300	14.25	96.93	190.73	90.27	847.52	1.60	280-300	14.21	97.3	191.67	89.33	848.46	1.8

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	**MP-04**																			
Top of Casing Elevation (ft amsl)	942.77							942.77							942.77					
Ground Surface Elevation (ft amsl)	940.14							940.14							940.14					
Date	1/18/2022							4/11/2022							7/26/2022					
Port Number	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**
1	48-77	14.45	14.5	0.9	58.1	884.67	-	48-77	14.16	15.12	2.21	56.79	885.98	-	48-77	14.21	15.51	3	56	886.77	1.4
2	80-112	14.45	30.65	38.15	57.85	884.92	-	80-112	14.16	31.16	39.22	56.78	885.99	-	80-112	14.21	31.56	40.02	55.98	886.79	2.8
3	115-152	14.45	47.70	77.49	58.51	884.26	-	115-152	14.16	48.23	78.59	57.41	885.36	-	115-152	14.21	48.74	79.65	56.35	886.42	7.5
4	155-192	14.45	61.02	108.21	67.79	874.98	-	155-192	14.16	61.25	108.63	67.37	875.40	-	155-192	14.21	60.92	107.75	68.25	874.52	1.3
5	195-217	14.45	72.24	134.09	71.91	870.86	-	195-217	14.16	72.45	134.46	71.54	871.23	-	195-217	14.21	72.13	133.61	72.39	870.38	2.3
6	220-242	14.45	81.83	156.22	74.78	867.99	-	220-242	14.16	81.95	156.38	74.62	868.15	-	220-242	14.21	81.79	155.89	75.11	867.66	7.0
7	245-272	14.45	86.84	167.77	88.23	854.54	-	245-272	14.16	86.51	166.9	89.1	853.67	-	245-272	14.21	86.16	165.97	90.03	852.74	3.0
8	275-291	14.45	92.80	181.52	94.48	848.29	-	275-291	14.16	93.02	181.91	94.09	848.68	-	275-291	14.21	92.83	181.36	94.64	848.13	5.0

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-04 (continued)							MP-05												
Top of Casing Elevation (ft amsl)	942.77							922.29							922.29					
Ground Surface Elevation (ft amsl)	940.14							919.59							919.59					
Date	10/11/2022							1/24/2022							4/11/2022					
Port Number	2	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	48-77	14.23	15.49	2.91	56.09	886.68	2	SWL-65	14.06	19.47	12.48	36.52	885.77	-	SWL-65	14.17	20.12	14	35.27	887.02	-
2	80-112	14.23	31.56	39.98	56.02	886.75	2.3	68-110	-	-	-	-	-	-	68-110	-	-	-	-	-	-
3	115-152	14.23	48.65	79.4	56.6	886.17	2	113-155	-	-	-	-	-	-	113-155	-	-	-	-	-	-
4	155-152	14.23	60.98	107.84	68.16	874.61	3.5	158-175	-	-	-	-	-	-	158-175	-	-	-	-	-	-
5	195-217	14.23	72.27	133.89	72.11	870.66	5.6	178-200	-	-	-	-	-	-	178-200	-	-	-	-	-	-
6	220-242	14.23	81.95	156.22	74.78	867.99	7.2	203-225	-	-	-	-	-	-	203-225	-	-	-	-	-	-
7	245-272	14.23	86.41	166.51	89.49	853.28	9.5	228-260	-	-	-	-	-	-	228-260	-	-	-	-	-	-
8	275-291	14.23	93.24	182.26	93.74	849.03	9.1	263-279	-	-	-	-	-	-	263-279	-	-	-	-	-	-

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 2 - 2022 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	**MP-05 (continued)**													
Top of Casing Elevation (ft amsl)	922.29							922.29						
Ground Surface Elevation (ft amsl)	919.59							919.59						
Date	7/26/2022							10/11/2022						
Port Number	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**
1	SWL-65	14.23	20.4	14.23	34.77	887.52	164.00	SWL-65	14.21	20.4	14.28	34.72	887.57	78.70
2	68-110	-	-	-	-	-	-	68-110	-	-	-	-	-	-
3	113-155	-	-	-	-	-	-	113-155	-	-	-	-	-	-
4	158-175	-	-	-	-	-	-	158-175	-	-	-	-	-	-
5	178-200	-	-	-	-	-	-	178-200	-	-	-	-	-	-
6	203-225	-	-	-	-	-	-	203-225	-	-	-	-	-	-
7	228-260	-	-	-	-	-	-	228-260	-	-	-	-	-	-
8	263-279	-	-	-	-	-	-	263-279	-	-	-	-	-	-

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-01																			
Top of Casing Elevation (ft amsl)	943.88							943.88							943.88					
Ground Surface Elevation (ft amsl)	941.47							941.47							941.47					
Date	6/14/2023							8/30/2023							11/8/2023					
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	051-088	14.11	21.23	16.42	55.58	888.30	-	051-088	14.35	20.60	14.42	57.58	886.30	1.02	051-088	14.02	20.06	13.93	58.07	885.81	2.19
2	091-118	14.11	34.16	46.25	55.75	888.13	-	091-118	14.35	33.52	44.22	57.78	886.10	1.89	091-118	14.02	32.98	43.74	58.26	885.62	2.19
3	121-152	14.11	47.03	75.94	56.06	887.82	-	121-152	14.35	46.34	73.79	58.21	885.67	2.08	121-152	14.02	45.81	73.33	58.67	885.21	2.56
4	155-195	14.11	66.00	119.70	56.30	887.58	-	155-195	14.35	65.33	117.60	58.40	885.48	3.28	155-195	14.02	64.78	117.09	58.91	884.97	6.85
5	198-220	14.11	73.42	136.82	72.18	871.70	-	198-220	14.35	72.93	135.13	73.87	870.01	0.66	198-220	14.02	72.54	134.99	74.01	869.87	2.47
6	223-250	14.11	82.35	157.42	76.58	867.30	-	223-250	14.35	81.95	155.94	78.06	865.82	0.60	223-250	14.02	81.66	156.03	77.97	865.91	1.04
7	253-274	14.11	85.8	165.37	93.63	850.25	-	253-274	14.35	85.23	163.51	95.49	848.39	0.77	253-274	14.02	85.28	164.38	94.62	849.26	2.04
8	277-293	14.11	93.03	182.05	95.95	847.93	-	277-293	14.35	92.6	180.51	97.49	846.39	2.88	277-293	14.02	92.64	181.36	96.64	847.24	2.98

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-02																			
Top of Casing Elevation (ft amsl)	945.76							945.76							945.76					
Ground Surface Elevation (ft amsl)	943.52							943.52							943.52					
Date	6/13/2023							8/30/2023							11/7/2023					
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	SWL-150	-	-	-	-	-	-	SWL-150	-	-	-	-	-	-	SWL-150	-	-	-	-	-	-
2	153-195	13.62	58.01	102.40	71.60	874.16	-	153-195	14.28	57.46	99.61	74.39	871.37	15.20	153-195	14.25	57.06	102.40	71.6	874.16	19.10
3	198-220	13.62	70.75	131.79	72.21	873.55	-	198-220	14.28	70.23	129.07	74.93	870.83	2.99	198-220	14.25	69.87	131.79	72.21	873.55	0.95
4	223-250	13.62	81.09	155.64	78.36	867.40	-	223-250	14.28	80.73	153.29	80.71	865.05	0.53	223-250	14.25	80.49	155.64	78.36	867.40	0.67
5	253-276	13.62	87.79	171.10	92.9	852.86	-	253-276	14.28	87.35	168.56	95.44	850.32	0.91	253-276	14.25	87.39	171.10	92.9	852.86	2.36
6	279-300	13.62	95.95	189.92	95.08	850.68	-	279-300	14.28	95.55	187.47	97.53	848.23	1.07	279-300	14.25	95.62	189.92	95.08	850.68	1.04
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-03																			
Top of Casing Elevation (ft amsl)	937.79							937.79							937.79					
Ground Surface Elevation (ft amsl)	934.94							934.94							934.94					
Date	6/13/2023							8/29/2023							11/7/2023					
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	46-80	14.09	19.95	13.52	48.48	889.31	-	46-80	14.22	19.23	11.56	50.44	887.35	1.99	46-80	14.26	18.81	10.50	51.5	886.29	0.98
2	83-117	14.09	35.97	50.47	48.53	889.26	-	83-117	14.22	35.21	48.42	50.58	887.21	2.15	83-117	14.26	34.78	47.34	51.66	886.13	1.83
3	120-157	14.09	53.95	91.95	49.05	888.74	-	120-157	14.22	53.16	89.83	51.17	886.62	4.07	120-157	14.26	52.67	88.60	52.40	885.39	2.91
4	160-187	14.09	61.32	108.95	62.05	875.74	-	160-187	14.22	60.75	107.34	63.66	874.13	0.81	155-192	14.26	60.38	106.39	64.61	873.18	1.88
5	190-217	14.09	73.41	136.84	64.16	873.63	-	190-217	14.22	72.86	135.27	65.73	872.06	1.40	190-217	14.26	72.55	134.46	66.54	871.25	1.73
6	220-242	14.09	85.36	164.41	66.59	871.20	-	220-242	14.22	84.75	162.70	68.3	869.49	2.05	220-242	14.26	84.48	161.98	69.02	868.77	7.63
7	245-227	14.09	89.07	172.96	96.04	841.75	-	245-227	14.22	88.62	171.63	97.37	840.42	0.79	245-227	14.26	88.7	171.72	97.28	840.51	3.31
8	280-300	14.09	97.48	192.36	88.64	849.15	-	280-300	14.22	97.00	190.96	90.04	847.75	0.79	280-300	14.26	97.13	191.16	89.84	847.95	2.28

Notes:

Dz = piezometric level in zone

H = pressure head of water in zone

- = Not analyzed

NA = Not applicable

NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-04																		
Top of Casing Elevation (ft amsl)	942.77							942.77							942.77						
Ground Surface Elevation (ft amsl)	940.14							940.14							940.14						
Date	6/12/2023							8/28/2023							11/6/2023						
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	48-77	14.11	16.52	5.56	53.44	889.33	-	48-77	14.27	15.87	3.69	55.31	887.46	1.83	48-77	13.97	15.30	3.07	55.93	886.84	14.14
2	80-112	14.11	32.66	42.79	53.21	889.56	-	80-112	14.27	31.95	40.78	55.22	887.55	1.80	80-112	13.97	31.34	40.07	55.93	886.84	14.04
3	115-152	14.11	49.63	81.94	54.06	888.71	-	115-152	14.27	48.88	79.84	56.16	886.61	1.35	115-152	13.97	48.31	79.22	56.78	885.99	29.84
4	155-192	14.11	61.67	109.71	66.29	876.48	-	155-192	14.27	61.08	107.98	68.02	874.75	2.05	155-152	13.97	60.67	107.73	68.27	874.50	46.31
5	195-217	14.11	73.01	135.87	70.13	872.64	-	195-217	14.27	72.36	134.00	72.00	870.77	2.20	195-217	13.97	71.90	133.63	72.37	870.40	59.30
6	220-242	14.11	82.25	157.19	73.81	868.96	-	220-242	14.27	81.81	155.80	75.20	867.57	5.12	220-242	13.97	81.36	155.46	75.54	867.23	70.24
7	245-272	14.11	86.86	167.82	88.18	854.59	-	245-272	14.27	86.33	166.23	89.77	853.00	0.64	245-272	13.97	86.10	166.39	89.61	853.16	81.11
8	275-291	14.11	93.5	183.14	92.86	849.91	-	275-291	14.27	92.98	181.57	94.43	848.34	1.23	275-291	13.97	92.97	182.24	93.76	849.01	89.82

Notes:

Dz = piezometric level in zone

H = pressure head of water in zone

- = Not analyzed

NA = Not applicable

NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-05																		
Top of Casing Elevation (ft amsl)	922.29							922.29							922.29						
Ground Surface Elevation (ft amsl)	919.59							919.59							919.59						
Date	6/12/2023							8/29/2023							11/6/2023						
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	SWL-65	14.14	21.51	17.00	32.00	890.29	-	SWL-65	14.22	20.52	14.71	34.28	888.01	4.56	SWL-65	13.98	20.42	14.86	34.14	888.15	12.40
2	68-110	-	-	-	-	-	-	68-110	-	-	-	-	-	-	68-110	-	-	-	-	-	-
3	113-155	-	-	-	-	-	-	113-155	-	-	-	-	-	-	113-155	-	-	-	-	-	-
4	158-175	-	-	-	-	-	-	158-175	-	-	-	-	-	-	158-175	-	-	-	-	-	-
5	178-200	-	-	-	-	-	-	178-200	-	-	-	-	-	-	178-200	-	-	-	-	-	-
6	203-225	-	-	-	-	-	-	203-225	-	-	-	-	-	-	203-225	-	-	-	-	-	-
7	228-260	-	-	-	-	-	-	228-260	-	-	-	-	-	-	228-260	-	-	-	-	-	-
8	263-279	-	-	-	-	-	-	263-279	-	-	-	-	-	-	263-279	-	-	-	-	-	-

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	**MP-06**																			
Top of Casing Elevation (ft amsl)	897.67							897.67							897.67					
Ground Surface Elevation (ft amsl)	895.40							895.40							895.40					
Date	6/13/2023							8/29/2023							11/7/2023					
Port Number	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**	**Multiport Interval**	**Patm**	**P2**	**H**	**Dz**	**Groundwater Elevation (ft amsl)**	**NTU**
1	21-33	14.11	21.41	16.84	10.16	887.51	-	21-33	14.26	20.74	14.95	12.05	885.62	35.60	21-33	14.27	20.43	14.21	12.79	884.88	8.77
2	36-70	14.11	32.24	41.82	10.18	887.49	-	36-70	14.26	31.60	40.00	12.00	885.67	1.66	36-70	14.27	31.31	39.31	12.69	884.98	4.51
3	73-110	14.11	50.40	83.71	10.29	887.38	-	73-110	14.26	49.67	81.68	12.32	885.35	1.66	73-110	14.27	49.35	80.92	13.08	884.59	1.09
4	113-145	14.11	62.35	111.28	17.72	879.95	-	113-145	14.26	61.89	109.87	19.13	878.54	1.83	113-145	14.27	61.69	109.39	19.61	878.06	2.42
5	148-178	14.11	74.35	138.96	20.04	877.63	-	148-178	14.26	73.75	137.23	21.77	875.90	1.83	148-178	14.27	73.53	136.70	22.3	875.37	2.23
6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-07																			
Top of Casing Elevation (ft amsl)	940.22							940.22							940.22					
Ground Surface Elevation (ft amsl)	938.16							938.16							938.16					
Date	6/12/2023							8/28/2023							11/6/2023					
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	48-77	14.12	17.01	6.67	52.33	887.89	-	48-77	14.3	16.36	4.75	54.25	885.97	1.96	48-77	13.98	15.73	4.04	54.96	885.26	3.92
2	80-112	14.12	33.15	43.90	52.10	888.12	-	80-112	14.3	27.91	31.40	64.60	875.62	4.95	80-112	13.98	31.82	41.15	54.85	885.37	5.32
3	115-152	14.12	49.93	82.61	53.39	886.83	-	115-152	14.3	45.34	71.60	64.40	875.82	3.82	115-152	13.98	48.67	80.02	55.98	884.24	3.10
4	155-192	14.12	61.00	108.14	67.86	872.36	-	155-192	14.3	63.68	113.91	62.09	878.13	1.31	155-192	13.98	60.00	106.16	69.84	870.38	1.60
5	195-217	14.12	73.17	136.22	69.78	870.44	-	195-217	14.3	75.83	141.94	64.06	876.16	1.61	195-217	13.98	72.08	134.03	71.97	868.25	2.48
6	220-258	14.12	81.41	155.22	75.78	864.44	-	220-258	14.3	86.69	166.99	64.01	876.21	2.63	220-258	13.98	80.44	153.31	77.69	862.53	1.90
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 3 - 2023 Multiport Well Groundwater Elevations
RockGen Energy Center
Town of Christiana, Dane County, Wisconsin
TRC Project # 451482.0000.0000, BRRTS #02-13-587341

Well	MP-08																			
Top of Casing Elevation (ft amsl)	938.17							938.17							938.17					
Ground Surface Elevation (ft amsl)	935.14							935.14							935.14					
Date	6/12/2023							8/28/2023							11/6/2023					
Port Number	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU	Multiport Interval	Patm	P2	H	Dz	Groundwater Elevation (ft amsl)	NTU
1	48-77	14.12	21.26	16.47	42.53	895.64	-	48-77	14.30	20.71	14.79	44.21	893.96	2.37	48-77	14.01	20.04	13.91	45.09	893.08	1.87
2	80-112	14.12	33.61	44.96	51.04	884.10	-	80-112	14.30	32.98	43.09	52.91	885.26	4.11	80-112	14.01	32.44	42.51	53.49	884.68	2.46
3	115-152	14.12	49.54	81.71	54.29	883.88	-	115-152	14.30	48.95	79.93	56.07	882.10	12.60	115-152	14.01	48.38	79.28	56.72	881.45	5.15
4	155-192	14.12	62.00	110.45	65.55	872.62	-	155-192	14.30	61.45	108.77	67.23	870.94	2.86	155-192	14.01	61.05	108.51	67.49	870.68	6.30
5	195-217	14.12	73.79	137.65	68.35	869.82	-	195-217	14.30	73.20	135.87	70.13	868.04	3.30	195-217	14.01	72.78	135.57	70.43	867.74	2.83
6	220-246	14.12	82.59	157.95	73.05	865.12	-	220-246	14.30	82.05	156.29	74.71	863.46	1.54	220-246	14.01	81.71	156.17	74.83	863.34	4.97
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
Dz = piezometric level in zone
H = pressure head of water in zone
- = Not analyzed
NA = Not applicable
NTU = Turbidity (nephelometric turbidity units)

Table 4 - Soil Analytical Results
RockGen Energy, LLC
Cambridge, Jefferson County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	Sample Type	NR 700 Direct Contact RCLs(1)		Groundwater Pathway Criteria		Soil									
				Location ID					SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-08	SB-09	SB-10
				Depth Interval					0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 1.5 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	2 - 4 ft
				Sample Type Code					N	N	N	N	N	N	N	N	N	N
				Sample Name					SB-01(0-2)	SB-02(0-2)	SB-03(0-2)	SB-04(0-2)	SB-05(0-2)	SB-06(0-1.5)	SB-07(0-2)	SB-08(0-2)	SB-09(0-2)	SB-10(2-4)
				Sample Date	Non-Industrial	Industrial	Generic(2)	Site-Specific(3)	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021	04/20/2021
				Sample Time					08:35	09:05	10:05	10:20	10:30	11:40	12:00	12:15	12:25	15:20
Carboxylic Acids																		
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ug/kg						0.39	0.23	< 0.027	< 0.028	< 0.029	0.38	0.13 J	0.14 J	0.23	0.17 J
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ug/kg						1.7	0.99	< 0.075	< 0.078	< 0.080	1.1	< 0.089	< 0.090	0.091 J	0.60
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ug/kg						0.73	0.98	0.041 J	0.084 J	< 0.044	0.72	< 0.049	< 0.049	0.089 J	0.57
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ug/kg						0.92	0.71	0.046 J	0.054 J	0.043 J	2.2	0.034 J	< 0.034	0.067 J	1.1
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ug/kg	1,260	16,400	0.61	>710,000		*1.3*	*2.6*	0.10 J	0.14 J	< 0.090	*6.5*	< 0.10	< 0.10	< 0.096	*4.0*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ug/kg						0.64	0.49	< 0.035	0.037 J	< 0.038	6.3	0.043 J	< 0.042	< 0.040	1.4
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ug/kg						0.95	0.70	< 0.022	0.13 J	< 0.023	0.29	< 0.025	< 0.026	< 0.025	1.5
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ug/kg						0.84	0.23	< 0.035	0.040 J	< 0.038	< 0.040	< 0.042	< 0.042	< 0.040	0.40
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ug/kg						0.86	0.53	< 0.066	< 0.068	< 0.070	< 0.075	< 0.078	< 0.078	< 0.075	0.47
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ug/kg						0.23	0.19 J	< 0.050	< 0.052	< 0.053	< 0.057	< 0.059	< 0.059	< 0.057	0.058 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ug/kg						0.30	0.29	< 0.053	< 0.055	< 0.056	< 0.060	< 0.063	< 0.063	< 0.061	< 0.059
Sulfonic Acids																		
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ug/kg	1,260,000	16,400,000	130			< 0.028	< 0.027	< 0.024	< 0.025	< 0.026	< 0.028	< 0.029	< 0.029	< 0.028	< 0.027
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ug/kg						< 0.022	< 0.022	< 0.020	< 0.020	< 0.021	< 0.022	< 0.023	< 0.023	< 0.022	< 0.022
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ug/kg						< 0.034	< 0.034	< 0.030	< 0.031	< 0.032	< 0.035	< 0.036	< 0.036	< 0.035	< 0.034
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ug/kg						< 0.039	< 0.038	< 0.034	< 0.035	< 0.037	< 0.039	< 0.041	< 0.041	< 0.039	< 0.038
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ug/kg	1,260	16,400	0.038	>170,000		< 0.22	< 0.22	< 0.20	< 0.20	< 0.21	*0.23 J*	< 0.23	< 0.23	< 0.22	*0.75*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ug/kg						< 0.022	< 0.022	< 0.020	< 0.020	< 0.021	< 0.022	< 0.023	< 0.023	< 0.022	< 0.022
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ug/kg						< 0.043	< 0.043	< 0.038	< 0.039	< 0.041	< 0.044	< 0.045	< 0.045	< 0.044	0.12 J
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ug/kg						< 0.066	< 0.066	< 0.059	< 0.061	< 0.063	< 0.067	< 0.069	< 0.070	< 0.067	< 0.065
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ug/kg						< 0.41	< 0.41	< 0.36	< 0.37	< 0.39	< 0.41	< 0.43	< 0.43	< 0.41	< 0.40
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ug/kg						3.1	11	< 0.15	0.90 J	< 0.16	< 0.17	< 0.17	< 0.17	< 0.17	6.5
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ug/kg						26	45	< 0.24	30	< 0.26	0.30 J	< 0.29	< 0.29	< 0.28	44
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																		
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ug/kg						< 0.091	< 0.090	< 0.080	< 0.083	< 0.086	< 0.092	< 0.095	< 0.096	< 0.092	< 0.089
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ug/kg						< 0.045	< 0.045	< 0.040	< 0.041	< 0.043	< 0.046	< 0.047	< 0.048	< 0.046	< 0.044
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ug/kg						< 0.026	< 0.026	< 0.023	< 0.024	< 0.025	< 0.027	< 0.028	< 0.028	< 0.027	< 0.026
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ug/kg						< 0.43	< 0.43	< 0.38	< 0.39	< 0.41	< 0.44	< 0.45	< 0.45	< 0.44	< 0.42
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ug/kg						< 0.41	< 0.41	< 0.36	< 0.37	< 0.39	< 0.41	< 0.43	< 0.43	< 0.41	< 0.40
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ug/kg						< 0.078	< 0.078	< 0.069	< 0.072	< 0.074	< 0.079	< 0.082	< 0.083	< 0.080	< 0.077
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ug/kg						< 0.040	< 0.040	< 0.035	< 0.036	< 0.038	< 0.040	< 0.042	< 0.042	< 0.040	< 0.039
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ug/kg						< 0.12	< 0.12	< 0.11	< 0.11	< 0.11	< 0.12	< 0.13	< 0.13	< 0.12	< 0.12
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ug/kg						< 0.020	< 0.020	< 0.018	< 0.018	< 0.019	< 0.020	< 0.021	< 0.021	< 0.020	< 0.020
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ug/kg						< 0.030	< 0.030	< 0.026	< 0.027	< 0.028	< 0.030	< 0.031	< 0.031	< 0.030	< 0.029
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ug/kg						< 0.024	< 0.024	< 0.022	< 0.022	< 0.023	< 0.025	< 0.025	< 0.026	< 0.025	< 0.024

Notes:
NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit
-- = not analyzed
Bold = Meets or exceeds NR 720 Industrial or Non-Industrial Direct Contact RCL
Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

Data Qualifiers
J = Estimated concentration
J+ = Estimated concentration with a potential high bias

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

Table 4 - Soil Analytical Results
RockGen Energy, LLC
Cambridge, Jefferson County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	NR 700 Direct Contact RCLs(1) Non-Industrial	NR 700 Direct Contact RCLs(1) Industrial	Groundwater Pathway Criteria Generic(2)	Groundwater Pathway Criteria Site-Specific(3)	Soil SB-10 7.5 - 9.5 ft N SB-10(7.5-9.5) 04/20/2021 15:25	Soil SB-11 2 - 4 ft N SB-11(2-4) 04/20/2021 13:20	Soil SB-12 2 - 4 ft N SB-12(2-4) 04/20/2021 13:40	Soil SB-13 2.25 - 4 ft N SB-13(2.25-4) 04/20/2021 15:40	Soil SB-13 9 - 11 ft N SB-13(9-11) 04/20/2021 15:45	Soil SB-14 0 - 4 ft N SB-14(0-4) 04/20/2021 16:15	Soil SB-15 0 - 2 ft N SB-15(0-2) 04/21/2021 08:20	Soil SB-16 0 - 2 ft N SB-16(0-2) 04/21/2021 08:35	Soil SB-17 0 - 1.5 ft N SB-17 (0-1.5) 05/10/2021 13:40
Carboxylic Acids																
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ug/kg					< 0.029	0.80	0.52	0.13 J	0.034 J	< 0.028	< 0.029	< 0.030	0.34
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ug/kg					0.11 J	2.2	1.2	0.58	0.15 J	< 0.078	< 0.081	< 0.083	0.63
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ug/kg					0.15 J	1.0	0.64	0.46	0.14 J	< 0.043	< 0.044	0.064 J	0.36
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ug/kg					0.34	1.0	0.40	0.25	0.085 J	< 0.029	< 0.030	0.044 J	0.59
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ug/kg	1,260	16,400	0.61	>710,000	*1.7*	*1.0*	0.17 J	0.52	0.29	< 0.087	< 0.090	0.099 J	*1.2*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ug/kg					0.95	0.065 J	< 0.043	0.35	0.18 J	< 0.037	0.040 J	0.042 J	0.83
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ug/kg					0.51	< 0.026	< 0.027	0.90	1.1	0.043 J	< 0.023	0.12 J	0.051 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ug/kg					< 0.037	< 0.042	< 0.043	0.28	< 0.039	< 0.037	< 0.038	0.11 J	< 0.043
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ug/kg					< 0.069	< 0.079	< 0.081	1.0	< 0.072	< 0.068	< 0.070	0.20 J	< 0.080
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ug/kg					< 0.052	< 0.060	< 0.061	0.12 J	< 0.055	< 0.052	< 0.053	0.081 J	< 0.061
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ug/kg					< 0.055	< 0.063	< 0.065	0.24	< 0.058	< 0.055	< 0.057	0.13 J	< 0.064
Sulfonic Acids																
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ug/kg	1,260,000	16,400,000	130		< 0.026	< 0.029	< 0.030	< 0.029	< 0.027	< 0.025	< 0.026	< 0.027	< 0.030
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ug/kg					< 0.021	< 0.023	< 0.024	< 0.023	< 0.021	< 0.020	< 0.021	< 0.021	< 0.024
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ug/kg					< 0.032	< 0.036	< 0.037	< 0.036	< 0.033	< 0.032	< 0.032	< 0.033	< 0.037
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ug/kg					< 0.036	< 0.041	< 0.042	< 0.040	< 0.038	< 0.036	< 0.037	< 0.038	< 0.042
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ug/kg	1,260	16,400	0.038	>170,000	*0.28 J*	< 0.23	< 0.24	< 0.23	< 0.21	< 0.20	< 0.21	< 0.21	< 0.24
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ug/kg					< 0.021	< 0.023	< 0.024	< 0.023	< 0.021	< 0.020	< 0.021	< 0.021	< 0.024
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ug/kg					< 0.040	< 0.046	< 0.047	0.18 J	< 0.042	< 0.040	< 0.041	< 0.042	< 0.047
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ug/kg					< 0.062	< 0.070	< 0.072	< 0.069	< 0.064	< 0.061	< 0.063	< 0.064	< 0.072
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ug/kg					< 0.38	< 0.43	< 0.45	< 0.43	< 0.40	< 0.38	< 0.39	< 0.40	< 0.44
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ug/kg					2.5	< 0.18	< 0.18	2.2 J	0.70 J	< 0.15	< 0.16	0.30 J	< 0.18
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ug/kg					28	< 0.29	< 0.30	3.0	17	< 0.25	< 0.26	5.0	0.69 J
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ug/kg					< 0.084	< 0.096	< 0.099	< 0.095	< 0.088	< 0.083	< 0.086	< 0.088	< 0.098
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ug/kg					< 0.042	< 0.048	< 0.049	< 0.047	< 0.044	< 0.042	< 0.043	< 0.044	< 0.049
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ug/kg					< 0.025	< 0.028	< 0.029	< 0.028	< 0.026	< 0.024	< 0.025	< 0.026	< 0.029
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ug/kg					< 0.40	< 0.46	< 0.47	< 0.45	< 0.42	< 0.40	< 0.41	< 0.42	< 0.47
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ug/kg					< 0.38	< 0.43	< 0.45	< 0.43	< 0.40	< 0.38	< 0.39	< 0.40	< 0.44
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ug/kg					< 0.073	< 0.083	< 0.086	< 0.082	< 0.076	< 0.072	< 0.074	< 0.076	< 0.085
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ug/kg					< 0.037	< 0.042	< 0.043	< 0.042	< 0.039	< 0.037	< 0.038	< 0.039	< 0.043
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ug/kg					< 0.11	< 0.13	< 0.13	< 0.13	< 0.12	< 0.11	< 0.12	< 0.12	< 0.13
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ug/kg					< 0.018	< 0.021	< 0.022	< 0.021	< 0.019	< 0.018	< 0.019	< 0.019	< 0.021
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ug/kg					< 0.028	< 0.032	< 0.033	< 0.031	< 0.029	< 0.027	< 0.028	< 0.029	< 0.032
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ug/kg					< 0.023	< 0.026	< 0.027	< 0.025	< 0.024	< 0.022	< 0.023	< 0.024	< 0.026

Notes:

NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit

-- = not analyzed

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

Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

Data Qualifiers

J = Estimated concentration

J+ = Estimated concentration with a potential high bias

Footnotes:

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

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

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

Table 4 - Soil Analytical Results
RockGen Energy, LLC
Cambridge, Jefferson County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	NR 700 Direct Contact RCLs(1) Non-Industrial	NR 700 Direct Contact RCLs(1) Industrial	Groundwater Pathway Criteria Generic(2)	Groundwater Pathway Criteria Site-Specific(3)	Soil							
Location ID								SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-23	SB-24
Depth Interval								0 - 1 ft	0 - 1.75 ft	0 - 2 ft	0 - 0.9 ft	0 - 2 ft	0 - 2 ft	2 - 3.75 ft	0 - 2 ft
Sample Type Code								N	N	N	N	N	N	N	N
Sample Name								SB-18 (0-1)	SB-19 (0-1.75)	SB-20 (0-2)	SB-21 (0-0.9)	SB-22 (0-2)	SB-23 (0-2)	SB-23 (2-3.75)	SB-24 (0-2)
Sample Date								05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021	05/10/2021
Sample Time								14:35	15:25	16:15	16:55	17:45	18:30	18:40	19:00
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ug/kg					0.38	0.20 J	0.16 J	0.15 J	0.21	0.82	0.30	1.6
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ug/kg					0.83	0.23	< 0.089	0.17 J	0.24	2.6	1.2	3.4
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ug/kg					0.51	0.19 J	0.066 J	0.17 J	0.19 J	0.68	0.33	1.1
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ug/kg					0.93	0.24	0.075 J	0.20 J	0.27	1.3	0.50	1.2
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ug/kg	1,260	16,400	0.61	>710,000	*2.8*	0.36	0.11 J	0.30	0.40	*1.4*	*0.66*	*3.3*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ug/kg					4.1	0.19 J	0.072 J	0.15 J	0.33	0.89	0.48	0.86
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ug/kg					0.58	0.039 J	< 0.025	< 0.027	0.043 J	0.44	0.17 J	0.14 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ug/kg					0.15 J	< 0.038	< 0.041	< 0.044	< 0.037	0.18 J	< 0.042	0.059 J
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ug/kg					< 0.077	< 0.072	< 0.077	< 0.082	< 0.068	0.11 J	< 0.078	< 0.080
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ug/kg					< 0.059	< 0.055	< 0.059	< 0.062	< 0.052	< 0.062	< 0.059	< 0.061
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ug/kg					< 0.062	< 0.058	< 0.062	< 0.066	< 0.055	< 0.066	< 0.063	< 0.065
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ug/kg	1,260,000	16,400,000	130		< 0.029	< 0.027	< 0.029	< 0.031	< 0.026	< 0.031	< 0.029	< 0.030
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ug/kg					< 0.023	< 0.021	< 0.023	< 0.024	< 0.020	< 0.024	< 0.023	< 0.024
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ug/kg					< 0.036	< 0.033	< 0.036	< 0.038	< 0.032	< 0.038	< 0.036	< 0.037
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ug/kg					< 0.040	< 0.037	< 0.040	< 0.043	< 0.036	< 0.043	< 0.041	< 0.042
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ug/kg	1,260	16,400	0.038	>170,000	< 0.23	< 0.21	< 0.23	< 0.24	< 0.20	< 0.24	< 0.23	< 0.24
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ug/kg					< 0.023	< 0.021	< 0.023	< 0.024	< 0.020	< 0.024	< 0.023	< 0.024
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ug/kg					< 0.045	< 0.042	< 0.045	< 0.048	< 0.040	< 0.048	< 0.045	< 0.047
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ug/kg					< 0.069	< 0.064	< 0.069	< 0.073	< 0.061	< 0.073	< 0.070	< 0.072
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ug/kg					< 0.43	< 0.40	< 0.43	< 0.45	< 0.38	< 0.45	< 0.43	< 0.44
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ug/kg					0.17 J	< 0.16	< 0.17	< 0.18	< 0.15	1.5 J	0.29 J	< 0.18
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ug/kg					7.1	< 0.27	< 0.29	< 0.31	< 0.26	14	1.2 J	2.0 J
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ug/kg					< 0.094	< 0.088	< 0.094	< 0.10	< 0.084	< 0.10	< 0.095	< 0.098
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ug/kg					< 0.047	< 0.044	< 0.047	< 0.050	< 0.042	< 0.050	< 0.048	< 0.049
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ug/kg					< 0.028	< 0.026	< 0.028	< 0.029	< 0.025	< 0.029	< 0.028	< 0.029
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ug/kg					< 0.45	< 0.42	< 0.45	< 0.48	< 0.40	< 0.48	< 0.45	< 0.47
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ug/kg					< 0.43	< 0.40	< 0.43	< 0.45	< 0.38	< 0.45	< 0.43	< 0.44
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ug/kg					< 0.082	< 0.076	< 0.082	< 0.087	< 0.073	< 0.087	< 0.083	< 0.085
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ug/kg					< 0.041	< 0.038	< 0.041	< 0.044	< 0.037	< 0.044	< 0.042	< 0.043
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ug/kg					< 0.13	< 0.12	< 0.13	< 0.13	< 0.11	< 0.13	< 0.13	< 0.13
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ug/kg					< 0.021	< 0.019	< 0.021	< 0.022	< 0.018	< 0.022	< 0.021	< 0.022
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ug/kg					< 0.031	< 0.029	< 0.031	< 0.033	< 0.028	< 0.033	< 0.031	< 0.032
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ug/kg					< 0.025	< 0.024	< 0.025	< 0.027	< 0.022	< 0.027	< 0.026	< 0.026

Notes:
NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit
-- = not analyzed
Bold = Meets or exceeds NR 720 Industrial or Non-Industrial Direct Contact RCL
Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

Data Qualifiers
J = Estimated concentration
J+ = Estimated concentration with a potential high bias

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

Table 4 - Soil Analytical Results
RockGen Energy, LLC
Cambridge, Jefferson County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	NR 700 Direct Contact RCLs(1) Non-Industrial	NR 700 Direct Contact RCLs(1) Industrial	Groundwater Pathway Criteria Generic(2)	Groundwater Pathway Criteria Site-Specific(3)	Soil							
Location ID								SB-24	SB-25	SB-25	SB-26	SB-27	SB-28	SB-29	SB-30
Depth Interval								2 - 4 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft
Sample Type Code								N	N	N	N	N	N	N	N
Sample Name								SB-24 (2-4)	SB-25 (0-2)	SB-25 (2-4)	SB-26 (0-2)	SB-27-202308	SB-28-202308	SB-29-202308	SB-30-202308
Sample Date								05/10/2021	05/11/2021	05/11/2021	05/11/2021	08/29/2023	08/29/2023	08/29/2023	08/29/2023
Sample Time								19:15	08:30	08:55	10:25	11:44	11:55	12:35	12:46
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ug/kg					0.33	1.5	0.76	1.1	0.32	0.29	0.74	0.24
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ug/kg					1.4	2.7	1.7	2.5	< 0.045	0.053	2.0	0.10
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ug/kg					0.35	1.0	0.61	0.80	0.051	0.050	1.2	0.081
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ug/kg					0.55	1.3	0.68	1.8	0.043	0.057	1.3	0.11
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ug/kg	1,260	16,400	0.61	>710,000	*0.73*	*3.6*	*1.3 J+*	*2.7*	< 0.058	0.062	*1.5*	0.11
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ug/kg					0.48	1.8	0.38	3.0	0.059	0.075	1.4	0.11
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ug/kg					0.20 J	0.30	0.040 J	1.2	< 0.052	< 0.053	0.22	< 0.055
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ug/kg					< 0.044	0.12 J	< 0.040	0.64	< 0.046	< 0.047	0.12	< 0.048
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ug/kg					< 0.081	< 0.072	< 0.074	0.17 J	< 0.033	< 0.033	0.041	< 0.034
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ug/kg					< 0.062	< 0.055	< 0.057	< 0.063	< 0.023	< 0.023	< 0.024	< 0.024
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ug/kg					< 0.066	< 0.058	< 0.060	< 0.067	< 0.040	< 0.041	< 0.042	< 0.042
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ug/kg	1,260,000	16,400,000	130		< 0.030	< 0.027	< 0.028	< 0.031	< 0.041	< 0.042	< 0.044	< 0.043
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ug/kg					< 0.024	< 0.022	< 0.022	< 0.025	< 0.040	< 0.041	< 0.042	< 0.042
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ug/kg					< 0.038	< 0.033	< 0.034	< 0.038	< 0.032	< 0.032	< 0.033	< 0.033
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ug/kg					< 0.043	< 0.038	< 0.039	< 0.043	< 0.053	< 0.054	< 0.056	< 0.056
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ug/kg	1,260	16,400	0.038	>170,000	< 0.24	*0.25 J*	< 0.22	*0.48 J*	*0.13*	*0.10*	*0.23*	*0.14*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ug/kg					< 0.024	< 0.022	< 0.022	< 0.025	< 0.032	< 0.032	< 0.033	< 0.033
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ug/kg					< 0.047	< 0.042	< 0.043	< 0.048	< 0.057	< 0.058	< 0.060	< 0.059
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ug/kg					< 0.073	< 0.065	< 0.067	< 0.074	< 0.051	< 0.052	< 0.054	< 0.054
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ug/kg					< 0.45	< 0.40	< 0.41	< 0.46	< 0.055	< 0.057	< 0.058	< 0.058
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ug/kg					0.30 J	0.28 J	< 0.17	1.4 J	< 0.029	< 0.030	0.049	< 0.031
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ug/kg					1.1 J	4.4	< 0.28	22	< 0.038	< 0.039	0.18	< 0.040
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ug/kg					< 0.10	< 0.088	< 0.091	< 0.10	< 0.036	< 0.037	< 0.038	< 0.038
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ug/kg					< 0.050	< 0.044	< 0.046	< 0.051	< 0.053	< 0.054	< 0.056	< 0.056
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ug/kg					< 0.029	< 0.026	< 0.027	< 0.030	< 0.051	< 0.052	< 0.054	< 0.054
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ug/kg					< 0.47	< 0.42	< 0.43	< 0.48	< 0.025	< 0.026	< 0.026	< 0.026
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ug/kg					< 0.45	< 0.40	< 0.41	< 0.46	< 0.052	< 0.053	< 0.055	< 0.055
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ug/kg					< 0.086	< 0.077	< 0.079	< 0.088	< 0.051	< 0.052	< 0.054	< 0.054
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ug/kg					< 0.044	< 0.039	< 0.040	< 0.045	< 0.030	0.034	< 0.032	< 0.032
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ug/kg					< 0.13	< 0.12	< 0.12	< 0.14	< 0.045	< 0.046	< 0.047	< 0.047
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ug/kg					< 0.022	< 0.019	< 0.020	< 0.022	< 0.042	< 0.043	< 0.045	< 0.045
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ug/kg					< 0.033	< 0.029	< 0.030	< 0.033	< 0.038	< 0.039	< 0.040	< 0.040
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ug/kg					< 0.027	< 0.024	< 0.024	< 0.027	< 0.034	< 0.034	< 0.036	< 0.035

Notes:

NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit

-- = not analyzed

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

Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

Data Qualifiers

J = Estimated concentration

J+ = Estimated concentration with a potential high bias

Footnotes:

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

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

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

Table 4 - Soil Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type	NR 700		Groundwater		Soil							
				Location ID	Direct Contact RCLs(1)		Pathway Criteria		SB-31	SB-32	SB-33	SB-34	SS-01	SS-02	SS-03	SS-04
				Depth Interval					0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1.5 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
				Sample Type Code					N	N	N	N	N	N	N	N
				Sample Name					SB-31-202308	SB-32-202308	SB-33-202308	SB-34-202308	SS-01(0-1)	SS-02(0-1)	SS-03(0-1)	SS-04
				Sample Date	Non-Industrial	Industrial	Generic(2)	Site-Specific(3)	08/29/2023	08/29/2023	08/29/2023	08/29/2023	04/21/2021	04/21/2021	04/21/2021	05/11/2021
				Sample Time					12:55	13:06	13:16	13:34	09:15	09:35	09:45	10:45
Analytes	**CAS RN**	**Method**	**Units**													
Carboxylic Acids																
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ug/kg						0.68	0.63	< 0.055	1.0	< 0.027	< 0.029	0.048 J	1.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ug/kg						0.23	0.17	0.17	3.9	0.16 J	< 0.079	0.12 J	2.7
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ug/kg						0.16	0.13	0.12	2.4	0.23	< 0.043	0.32	1.3
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ug/kg						0.17	0.14	0.070	2.4	0.30	< 0.030	0.099 J	3.4
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ug/kg	1,260	16,400	0.61	>710,000		0.20	0.14	0.16	*2.6*	*0.65*	< 0.088	0.49	*4.8*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ug/kg						0.19	0.17	0.11	1.9	0.13 J	< 0.037	0.13 J	3.6
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ug/kg						< 0.055	< 0.054	< 0.058	1.1	0.22	< 0.022	0.60	2.1
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ug/kg						< 0.048	0.051	< 0.050	0.73	< 0.035	< 0.037	0.31	1.7
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ug/kg						< 0.035	< 0.034	< 0.036	0.42	< 0.065	< 0.068	0.22	0.87
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ug/kg						< 0.024	< 0.024	< 0.025	0.14	< 0.050	< 0.052	< 0.052	0.19 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ug/kg						< 0.043	< 0.041	< 0.044	0.11	< 0.052	< 0.055	0.12 J	0.15 J
Sulfonic Acids																
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ug/kg	1,260,000	16,400,000	130			< 0.044	< 0.043	< 0.046	< 0.048	< 0.024	< 0.026	< 0.025	< 0.033
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ug/kg						< 0.043	< 0.041	< 0.044	< 0.047	< 0.019	< 0.020	< 0.020	< 0.027
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ug/kg						< 0.033	< 0.033	< 0.035	< 0.037	< 0.030	< 0.032	< 0.032	< 0.041
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ug/kg						< 0.056	< 0.055	< 0.059	< 0.062	< 0.034	< 0.036	< 0.036	< 0.047
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ug/kg	1,260	16,400	0.038	>170,000		*0.25*	*0.24*	< 0.052	0.20	< 0.19	< 0.20	< 0.20	*0.42 J*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ug/kg						< 0.033	< 0.033	< 0.035	< 0.037	< 0.019	< 0.020	< 0.020	< 0.027
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ug/kg						< 0.060	< 0.058	< 0.062	< 0.066	< 0.038	< 0.040	< 0.040	< 0.052
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ug/kg						< 0.054	< 0.053	< 0.056	< 0.059	< 0.058	< 0.061	< 0.061	< 0.080
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ug/kg						< 0.059	< 0.057	< 0.061	< 0.064	< 0.36	< 0.38	< 0.38	< 0.49
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ug/kg						< 0.031	< 0.030	< 0.032	0.29	5.5	< 0.15	7.2 J	0.38 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ug/kg						< 0.040	< 0.039	0.19	2.7	74	< 0.26	130 J	5.3
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ug/kg						< 0.038	< 0.037	< 0.040	< 0.042	< 0.080	< 0.084	< 0.083	< 0.11
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ug/kg						< 0.056	< 0.055	< 0.059	< 0.062	< 0.040	< 0.042	< 0.042	< 0.055
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ug/kg						< 0.054	< 0.053	< 0.056	< 0.059	< 0.023	< 0.024	< 0.024	< 0.032
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ug/kg						< 0.026	< 0.026	< 0.028	< 0.029	< 0.38	< 0.40	< 0.40	< 0.52
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ug/kg						< 0.055	< 0.054	< 0.058	< 0.061	< 0.36	< 0.38	< 0.38	< 0.49
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ug/kg						< 0.054	< 0.053	< 0.056	< 0.059	< 0.069	< 0.072	< 0.072	< 0.095
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ug/kg						< 0.032	< 0.031	< 0.034	< 0.035	< 0.035	< 0.037	< 0.037	< 0.048
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ug/kg						< 0.047	< 0.046	< 0.049	< 0.052	< 0.11	< 0.11	< 0.11	< 0.15
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ug/kg						< 0.045	< 0.044	< 0.047	< 0.049	< 0.017	< 0.018	< 0.018	< 0.024
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ug/kg						< 0.040	< 0.039	< 0.042	< 0.044	< 0.026	< 0.028	< 0.027	< 0.036
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ug/kg						< 0.036	< 0.035	< 0.037	< 0.039	< 0.021	< 0.022	< 0.022	< 0.029

Notes:

NR 140 ES = Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 preventive action limit

-- = not analyzed

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

Italic = Meets or exceeds Protection of Groundwater Generic Screening Level

Data Qualifiers

J = Estimated concentration

J+ = Estimated concentration with a potential high bias

Footnotes:

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

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

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

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank				
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB
						Sample Name	EB-01-20210716	MP-04-EB-202201	MP-03-EB-202201	MP-02-EB-202201	MP-01-EB-202201	MW-04-EB-202201
						Sample Date	07/16/2021	01/18/2022	01/19/2022	01/21/2022	01/21/2022	01/21/2022
						Sample Time	11:50	16:15	15:01	11:20	15:45	17:40
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.1	< 1.9	< 2.2	< 2.3	< 2.3	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.42	< 0.38	< 0.46	< 0.47	< 0.47	< 0.46
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.50	< 0.45	< 0.54	< 0.56	< 0.55	< 0.55
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.21	< 0.19	< 0.23	< 0.24	< 0.24	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.73	< 0.66	< 0.79	< 0.81	< 0.81	< 0.80
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.23	< 0.21	< 0.25	< 0.26	< 0.26	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.27	< 0.24	< 0.29	< 0.30	< 0.30	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 0.94	< 0.85	< 1.0	< 1.1	< 1.0	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.47	< 0.43	< 0.51	< 0.53	< 0.52	< 0.52
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.1	< 1.0	< 1.2	< 1.2	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.63	< 0.57	< 0.68	< 0.70	< 0.70	< 0.69
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.17	< 0.16	< 0.19	< 0.19	< 0.19	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.26	< 0.23	< 0.28	< 0.29	< 0.29	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.49	< 0.44	< 0.53	< 0.55	< 0.54	< 0.54
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.16	< 0.15	< 0.18	< 0.18	< 0.18	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.46	< 0.42	< 0.50	< 0.52	< 0.51	< 0.51
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.32	< 0.29	< 0.35	< 0.35	< 0.35	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.27	< 0.25	< 0.30	< 0.31	< 0.31	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.83	< 0.75	< 0.91	< 0.93	< 0.92	< 0.91
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.21	< 0.19	< 0.22	< 0.23	< 0.23	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.1	< 1.9	< 2.3	< 2.4	< 2.4	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.40	< 0.36	< 0.43	< 0.44	< 0.44	< 0.43
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.84	< 0.76	< 0.92	< 0.94	< 0.93	< 0.92
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.37	< 0.33	< 0.40	< 0.41	< 0.41	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.75	< 0.68	< 0.81	< 0.83	< 0.83	< 0.82
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.0	< 0.93	< 1.1	< 1.1	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.1	< 1.0	< 1.2	< 1.2	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.2	< 1.1	< 1.3	< 1.3	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.73	< 0.66	< 0.79	< 0.81	< 0.81	< 0.80
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.3	< 1.2	< 1.4	< 1.4	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.34	< 0.31	< 0.37	< 0.38	< 0.38	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.21	< 0.19	< 0.22	< 0.23	< 0.23	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.27	< 0.25	< 0.30	< 0.31	< 0.31	< 0.30

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

ng/L = nanograms per liter

Data Qualifiers

J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank				
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB
						Sample Name	MP-05-EB-202201	MP-03-EB-202204	MW-07-EB-202204	MP-02-EB-202204	MP-05-EB-202204	MP-04-EB-202204
						Sample Date	01/24/2022	04/12/2022	04/12/2022	04/12/2022	04/12/2022	04/12/2022
						Sample Time	14:10	08:45	10:40	12:50	14:30	14:45
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.3	< 2.3	< 2.3	< 2.3	< 2.3	< 2.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.46	< 0.46	< 0.47	< 0.47	< 0.46	< 0.46
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.55	< 0.55	< 0.55	< 0.55	< 0.54	< 0.54
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.24	< 0.24	< 0.24	< 0.24	< 0.23	< 0.23
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.80	< 0.80	< 0.81	< 0.81	< 0.80	< 0.80
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.29	< 0.29	< 0.29	< 0.30	< 0.29	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 1.0	< 1.0	< 1.1	< 1.0	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.52	< 0.52	< 0.52	< 0.53	< 0.52	< 0.51
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.69	< 0.69	< 0.69	< 0.70	< 0.69	< 0.68
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.28	< 0.28	< 0.28	< 0.29	< 0.28	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.53
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.51	< 0.51	< 0.51	< 0.52	< 0.51	< 0.51
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.30	< 0.30	< 0.30	< 0.31	< 0.30	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.91	< 0.91	< 0.92	< 0.93	< 0.91	< 0.91
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.4	< 2.4	< 2.4	< 2.4	< 2.3	< 2.3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.43	< 0.43	< 0.44	< 0.44	< 0.43	< 0.43
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.92	< 0.92	< 0.93	< 0.94	< 0.92	< 0.92
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.41	< 0.40	< 0.41	< 0.41	< 0.40	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.82	< 0.82	< 0.83	< 0.83	< 0.82	< 0.81
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.80	< 0.80	< 0.81	< 0.81	< 0.80	< 0.80
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.37
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.30	< 0.30	< 0.30	< 0.31	< 0.30	< 0.30

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
ng/L = nanograms per liter

Data Qualifiers
J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank				
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB
						Sample Name	MP-01-EB-202204	MP-05-EB-202207	MP-04-EB-202207	MP-03-EB-202207	MP-02-EB-202207	MP-01-EB-202207
						Sample Date	04/12/2022	07/26/2022	07/26/2022	07/26/2022	07/27/2022	07/27/2022
						Sample Time	15:55	10:30	11:55	14:12	09:45	13:50
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.4	< 2.3	< 2.3	< 2.3	< 2.3	< 2.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.49	< 0.47	< 0.47	< 0.46	< 0.47	< 0.46
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.59	< 0.55	< 0.56	< 0.55	< 0.55	< 0.54
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.25	< 0.24	< 0.24	< 0.24	< 0.24	< 0.23
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.86	< 0.81	< 0.82	< 0.80	< 0.81	< 0.79
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.27	< 0.26	< 0.26	< 0.25	< 0.26	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.31	< 0.29	< 0.30	< 0.29	< 0.30	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.1	< 1.0	< 1.1	< 1.0	< 1.0	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.56	< 0.52	< 0.53	< 0.52	< 0.52	< 0.51
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.3	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.74	< 0.69	< 0.71	< 0.69	< 0.70	< 0.68
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.30	< 0.28	< 0.29	< 0.28	< 0.29	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.58	< 0.54	< 0.55	< 0.54	< 0.54	< 0.53
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.55	< 0.51	< 0.52	< 0.51	< 0.51	< 0.50
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.37	< 0.35	< 0.36	< 0.35	< 0.35	< 0.34
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.32	< 0.30	< 0.31	< 0.30	< 0.30	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.98	< 0.92	< 0.94	< 0.91	< 0.92	< 0.90
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.24	< 0.23	< 0.23	< 0.23	< 0.23	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.5	< 2.4	< 2.4	< 2.4	< 2.4	< 2.3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		0.51	< 0.44	< 0.45	< 0.43	< 0.44	< 0.43
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.99	< 0.93	< 0.95	< 0.92	< 0.93	< 0.91
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.43	< 0.41	< 0.42	< 0.41	< 0.41	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.88	< 0.83	< 0.84	< 0.82	< 0.83	< 0.81
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.3	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.86	< 0.81	< 0.82	< 0.80	< 0.81	< 0.79
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.5	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.40	< 0.38	< 0.39	< 0.38	< 0.38	< 0.37
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.24	< 0.23	< 0.23	< 0.23	< 0.23	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.32	< 0.30	< 0.31	< 0.30	< 0.30	< 0.30

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
ng/L = nanograms per liter

Data Qualifiers
J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

					Sample Type	**Equipment Blank**					
					Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
					Sample Type Code	EB	EB	EB	EB	EB	EB
					Sample Name	EB-01-202207	MP-05-EB-202210	MP-04-EB-202210	MP-03-EB-202210	MP-02-EB-202210	MP-01-EB-202210
					Sample Date	07/27/2022	10/11/2022	10/11/2022	10/11/2022	10/12/2022	10/12/2022
					Sample Time	14:00	08:30	09:30	12:30	07:30	12:00
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**						
Carboxylic Acids											
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.1	< 2.3	< 2.2	< 2.3	< 2.4	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.44	< 0.46	< 0.45	< 0.46	< 0.48	< 0.46
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.52	< 0.55	< 0.53	< 0.55	< 0.57	< 0.55
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.22	< 0.24	< 0.23	< 0.24	< 0.25	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.76	< 0.80	< 0.78	< 0.80	< 0.84	< 0.80
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.24	< 0.25	< 0.25	< 0.25	< 0.27	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.28	< 0.29	< 0.28	< 0.29	< 0.31	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 0.98	< 1.0	< 1.0	< 1.0	< 1.1	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.49	< 0.52	< 0.50	< 0.52	< 0.54	< 0.52
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.65	< 0.69	< 0.67	< 0.69	< 0.72	< 0.69
Sulfonic Acids											
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.18	< 0.19	< 0.18	< 0.19	< 0.20	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.27	< 0.28	< 0.27	< 0.28	< 0.30	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.51	< 0.54	< 0.52	< 0.54	< 0.56	< 0.54
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.17	< 0.18	< 0.17	< 0.18	< 0.19	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.48	< 0.51	< 0.49	< 0.51	< 0.53	< 0.51
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.33	< 0.35	< 0.34	< 0.35	< 0.36	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.29	< 0.30	< 0.29	< 0.30	< 0.31	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.87	< 0.91	< 0.89	< 0.91	< 0.95	< 0.91
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.21	< 0.23	< 0.22	< 0.23	< 0.24	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.2	< 2.4	< 2.3	< 2.4	< 2.5	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.41	< 0.43	< 0.42	< 0.43	< 0.45	< 0.43
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols											
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.88	< 0.92	< 0.90	< 0.92	< 0.96	< 0.92
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.38	< 0.40	< 0.39	< 0.41	< 0.42	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.78	< 0.82	< 0.80	< 0.82	< 0.86	< 0.82
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.76	< 0.80	< 0.78	< 0.80	< 0.84	< 0.80
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.3	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.36	< 0.38	< 0.37	< 0.38	< 0.39	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.21	< 0.23	< 0.22	< 0.23	< 0.24	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.29	< 0.30	< 0.29	< 0.30	< 0.31	< 0.30

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

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ng/L = nanograms per liter

Data Qualifiers

J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank						
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB	EB	EB
						Sample Name	EB-06-202210	EB-08-202306	EB-07-202306	EB-05-202306	EB-04-202306	EB-06-202306	EB-03-202306	EB-02-202306
						Sample Date	10/12/2022	06/12/2023	06/12/2023	06/12/2023	06/12/2023	06/13/2023	06/13/2023	06/13/2023
						Sample Time	14:05	11:00	13:00	14:05	15:00	09:20	10:58	14:00
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.2	< 2.3	< 2.5	< 2.3	< 2.3	< 2.3	< 2.3	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.45	< 0.47	< 0.51	< 0.47	< 0.48	< 0.46	< 0.48	< 0.48
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.53	< 0.56	< 0.61	< 0.55	< 0.57	< 0.55	< 0.57	< 0.56
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.23	< 0.24	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.78	< 0.82	< 0.89	< 0.81	< 0.83	< 0.81	< 0.83	< 0.83
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.25	< 0.26	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.28	< 0.30	< 0.33	< 0.30	< 0.30	< 0.29	< 0.30	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 1.1	< 1.2	< 1.1	< 1.1	< 1.0	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.50	< 0.53	< 0.58	< 0.53	< 0.54	< 0.52	< 0.54	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 1.3	< 1.4	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.67	< 0.70	< 0.77	< 0.70	< 0.71	< 0.69	< 0.71	< 0.71
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.18	< 0.19	< 0.21	< 0.19	< 0.20	< 0.19	< 0.20	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.27	< 0.29	< 0.31	< 0.29	< 0.29	< 0.28	< 0.29	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.52	< 0.55	< 0.60	< 0.54	< 0.56	< 0.54	< 0.56	< 0.55
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.17	< 0.18	< 0.20	< 0.18	< 0.19	< 0.18	< 0.19	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.49	< 0.52	< 0.57	< 0.52	< 0.53	< 0.51	< 0.53	< 0.53
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.34	< 0.36	< 0.39	< 0.35	< 0.36	< 0.35	< 0.36	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.29	< 0.31	< 0.34	< 0.31	< 0.31	< 0.30	< 0.31	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.89	< 0.93	< 1.0	< 0.93	< 0.95	< 0.92	< 0.95	< 0.94
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.22	< 0.23	< 0.25	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.3	< 2.4	< 2.6	< 2.4	< 2.4	< 2.4	< 2.4	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.42	< 0.44	< 0.48	< 0.44	< 0.45	< 0.44	< 0.45	< 0.45
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.90	< 0.94	< 1.0	< 0.94	< 0.96	< 0.93	< 0.96	< 0.95
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.39	< 0.41	< 0.45	< 0.41	< 0.42	< 0.41	< 0.42	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.80	< 0.84	< 0.91	< 0.83	< 0.85	< 0.83	< 0.85	< 0.85
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 1.2	< 1.3	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 1.3	< 1.4	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.78	< 0.82	< 0.89	< 0.81	< 0.83	< 0.81	< 0.83	< 0.83
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 1.4	< 1.6	< 1.4	< 1.5	< 1.4	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.37	< 0.38	< 0.42	< 0.38	< 0.39	< 0.38	< 0.39	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.22	< 0.23	< 0.25	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.29	< 0.31	< 0.34	< 0.31	< 0.31	< 0.30	< 0.31	< 0.31

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

ng/L = nanograms per liter

Data Qualifiers

J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank						
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB	EB	EB
						Sample Name	EB-01-202306	EB-09-202306	EB-01-202308	EB-02-202308	EB-03-202308	EB-04-202308	EB-01-202308	EB-05-202308
						Sample Date	06/14/2023	06/14/2023	08/28/2023	08/28/2023	08/28/2023	08/29/2023	08/29/2023	08/29/2023
						Sample Time	09:00	14:30	11:05	12:29	15:50	09:30	12:25	13:39
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.3	< 2.1	< 2.3	< 2.3	< 2.3	< 2.3	< 3.3	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.47	< 0.43	< 0.47	< 0.46	< 0.47	< 0.46	< 0.67	< 0.47
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.55	< 0.51	< 0.55	< 0.55	< 0.56	< 0.55	< 0.79	< 0.55
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.24	< 0.22	< 0.24	< 0.24	< 0.24	< 0.24	< 0.34	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.81	< 0.75	< 0.81	< 0.80	< 0.82	< 0.80	< 1.2	< 0.81
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.26	< 0.24	< 0.26	< 0.26	< 0.26	< 0.25	< 0.37	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.29	< 0.27	< 0.30	< 0.29	< 0.30	< 0.29	< 0.42	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 0.97	< 1.1	< 1.0	< 1.1	< 1.0	< 1.5	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.52	< 0.49	< 0.53	< 0.52	< 0.53	< 0.52	< 0.75	< 0.52
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 1.1	< 1.2	< 1.2	< 1.3	< 1.2	< 1.8	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.69	< 0.64	< 0.70	< 0.69	< 0.70	< 0.69	< 0.99	< 0.69
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.19	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.27	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.28	< 0.27	< 0.29	< 0.28	< 0.29	< 0.28	< 0.41	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.54	< 0.50	< 0.54	< 0.54	< 0.55	< 0.54	< 0.78	< 0.54
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.18	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18	< 0.26	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.51	< 0.48	< 0.52	< 0.51	< 0.52	< 0.51	< 0.74	< 0.51
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.35	< 0.33	< 0.35	< 0.35	< 0.36	< 0.35	< 0.50	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.30	< 0.28	< 0.31	< 0.30	< 0.31	< 0.30	< 0.44	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.92	< 0.86	< 0.93	< 0.92	< 0.94	< 0.91	< 1.3	< 0.92
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.23	< 0.21	< 0.23	< 0.23	< 0.23	< 0.23	< 0.33	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.4	< 2.2	< 2.4	< 2.4	< 2.4	< 2.4	< 3.4	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.44	< 0.41	< 0.44	< 0.43	< 0.44	< 0.43	< 0.63	< 0.44
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.93	< 0.87	< 0.94	< 0.93	< 0.95	< 0.92	< 1.3	< 0.93
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.41	< 0.38	< 0.41	< 0.41	< 0.41	< 0.40	< 0.59	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.83	< 0.77	< 0.83	< 0.82	< 0.84	< 0.82	< 1.2	< 0.83
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.6	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 1.1	< 1.2	< 1.2	< 1.3	< 1.2	< 1.8	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 1.2	< 1.3	< 1.3	< 1.4	< 1.3	< 1.9	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.81	< 0.75	< 0.81	< 0.80	< 0.82	< 0.80	< 1.2	< 0.81
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 2.0	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.38	< 0.35	< 0.38	< 0.38	< 0.39	< 0.38	< 0.54	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.23	< 0.21	< 0.23	< 0.23	< 0.23	< 0.23	< 0.33	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.30	< 0.28	< 0.31	< 0.30	< 0.31	< 0.30	< 0.44	< 0.30

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
ng/L = nanograms per liter

Data Qualifiers
J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank						
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB	EB	EB
						Sample Name	EB-06-202308	EB-07-202308	EB-08-202308	EB-09-202308	EB-10-202308	EB-01-202311	EB-02-202311	EB-03-202311
						Sample Date	08/29/2023	08/30/2023	08/30/2023	08/30/2023	08/30/2023	11/06/2023	11/06/2023	11/06/2023
						Sample Time	15:30	09:25	10:30	14:30	14:40	08:20	10:55	12:55
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.3	< 2.3	< 2.3	< 2.5	< 2.1	< 2.3	< 2.3	< 2.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.47	< 0.46	< 0.47	< 0.52	< 0.42	< 0.47	< 0.46	< 0.46
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.55	< 0.55	< 0.56	< 0.61	< 0.50	< 0.55	< 0.55	< 0.54
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.24	< 0.24	< 0.24	< 0.26	< 0.22	< 0.24	< 0.24	< 0.23
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.81	< 0.81	< 0.81	< 0.90	< 0.74	< 0.81	< 0.80	< 0.79
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.26	< 0.26	< 0.26	< 0.29	< 0.23	< 0.26	< 0.26	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.30	< 0.29	< 0.30	< 0.33	< 0.27	< 0.30	< 0.29	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 1.0	< 1.1	< 1.2	< 0.95	< 1.1	< 1.0	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.52	< 0.52	< 0.53	< 0.58	< 0.48	< 0.53	< 0.52	< 0.51
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 1.2	< 1.2	< 1.4	< 1.1	< 1.2	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.70	< 0.69	< 0.70	< 0.77	< 0.63	< 0.70	< 0.69	< 0.68
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.19	< 0.19	< 0.19	< 0.21	< 0.17	< 0.19	< 0.19	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.29	< 0.28	< 0.29	< 0.32	< 0.26	< 0.29	< 0.28	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.54	< 0.54	< 0.55	< 0.60	< 0.49	< 0.55	< 0.54	< 0.53
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.18	< 0.18	< 0.18	< 0.20	< 0.16	< 0.18	< 0.18	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.51	< 0.51	< 0.52	< 0.57	< 0.47	< 0.52	< 0.51	< 0.50
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.35	< 0.35	< 0.35	< 0.39	< 0.32	< 0.35	< 0.35	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.30	< 0.30	< 0.31	< 0.34	< 0.28	< 0.31	< 0.30	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.92	< 0.92	< 0.93	< 1.0	< 0.84	< 0.93	< 0.92	< 0.91
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.23	< 0.23	< 0.23	< 0.25	< 0.21	< 0.23	< 0.23	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.4	< 2.4	< 2.4	< 2.6	< 2.2	< 2.4	< 2.4	< 2.3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.44	< 0.44	< 0.44	< 0.49	< 0.40	< 0.44	< 0.44	< 0.43
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.93	< 0.93	< 0.94	< 1.0	< 0.85	< 0.94	< 0.93	< 0.91
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.41	< 0.41	< 0.41	< 0.45	< 0.37	< 0.41	< 0.41	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.83	< 0.83	< 0.83	< 0.92	< 0.75	< 0.83	< 0.82	< 0.81
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 1.1	< 1.2	< 1.3	< 1.0	< 1.1	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 1.2	< 1.2	< 1.4	< 1.1	< 1.2	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.3	< 1.5	< 1.2	< 1.3	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.81	< 0.81	< 0.81	< 0.90	< 0.74	< 0.81	< 0.80	< 0.79
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 1.4	< 1.4	< 1.6	< 1.3	< 1.4	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.38	< 0.38	< 0.38	< 0.42	< 0.35	< 0.38	< 0.38	< 0.37
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.23	< 0.23	< 0.23	< 0.25	< 0.21	< 0.23	< 0.23	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.30	< 0.30	< 0.31	< 0.34	< 0.28	< 0.31	< 0.30	< 0.30

Notes:

CAS RN = Chemical Abstracts Service Registry Number

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ng/L = nanograms per liter

Data Qualifiers

J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Equipment Blank						Field Blank
						Location ID	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	EQ_BLANK	FIELD_BLANK
						Sample Type Code	EB	EB	EB	EB	EB	EB	EB	FB
						Sample Name	EB-04-202311	EB-05-202311	EB-06-202311	EB-07-202311	EB-08-202311	EB-09-202311	EB-10-202311	FB-04-20210629
						Sample Date	11/06/2023	11/07/2023	11/07/2023	11/07/2023	11/08/2023	11/08/2023	11/08/2023	06/29/2021
						Sample Time	13:55	08:15	10:55	13:20	08:00	15:10	15:15	12:30
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.2	< 2.3	< 2.3	< 2.3	< 2.3	< 2.5	< 2.4	< 2.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.46	< 0.47	< 0.47	< 0.48	< 0.46	< 0.50	< 0.48	< 0.43
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.54	< 0.56	< 0.55	< 0.57	< 0.55	< 0.60	< 0.57	0.52 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.23	< 0.24	< 0.24	< 0.24	< 0.24	< 0.26	< 0.24	< 0.22
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.79	< 0.82	< 0.81	< 0.83	< 0.81	< 0.87	< 0.83	< 0.74
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.25	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.26	< 0.24
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.29	< 0.30	< 0.29	< 0.30	< 0.29	< 0.32	< 0.30	< 0.27
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 1.1	< 1.0	< 1.1	< 1.0	< 1.1	< 1.1	< 0.96
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.51	< 0.53	< 0.52	< 0.54	< 0.52	< 0.56	< 0.54	< 0.48
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3	< 1.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.68	< 0.70	< 0.69	< 0.71	< 0.69	< 0.75	< 0.72	< 0.64
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.21	< 0.20	< 0.17
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.28	< 0.29	< 0.29	< 0.29	< 0.28	< 0.31	< 0.29	< 0.26
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.53	< 0.55	< 0.54	< 0.56	< 0.54	< 0.58	< 0.56	< 0.50
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.18	< 0.18	< 0.18	< 0.19	< 0.18	< 0.19	< 0.19	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.50	< 0.52	< 0.51	< 0.53	< 0.51	< 0.55	< 0.53	< 0.47
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.35	< 0.36	< 0.35	< 0.36	< 0.35	< 0.38	< 0.36	< 0.32
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.30	< 0.31	< 0.30	< 0.31	< 0.30	< 0.33	< 0.31	< 0.28
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.90	< 0.93	< 0.92	< 0.95	< 0.92	< 1.0	< 0.95	< 0.85
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.22	< 0.23	< 0.23	< 0.23	< 0.23	< 0.25	< 0.24	< 0.21
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.3	< 2.4	< 2.4	< 2.4	< 2.4	< 2.6	< 2.4	< 2.2
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.43	< 0.44	< 0.44	< 0.45	< 0.44	< 0.47	< 0.45	< 0.40
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.91	< 0.94	< 0.93	< 0.96	< 0.93	< 1.0	< 0.96	< 0.85
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.40	< 0.41	< 0.41	< 0.42	< 0.41	< 0.44	< 0.42	< 0.38
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.81	< 0.84	< 0.83	< 0.85	< 0.82	< 0.89	< 0.85	< 0.76
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2	< 1.0
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3	< 1.1
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4	< 1.2
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.79	< 0.82	< 0.81	< 0.83	< 0.81	< 0.87	< 0.83	< 0.74
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.5	< 1.5	< 1.3
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.37	< 0.38	< 0.38	< 0.39	< 0.38	< 0.41	< 0.39	< 0.35
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.22	< 0.23	< 0.23	< 0.23	< 0.23	< 0.25	< 0.24	< 0.21
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.30	< 0.31	< 0.30	< 0.31	< 0.30	< 0.33	< 0.31	< 0.28

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
ng/L = nanograms per liter

Data Qualifiers
J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Field Blank					
						Location ID	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK
						Sample Type Code	FB	FB	FB	FB	FB	FB	FB
						Sample Name	FB-05-20210701	FB-01-20210716	FB-20210721	FB-01-202201	FB-02-202201	FB-02-202204	FB-01-202204
						Sample Date	07/01/2021	07/16/2021	07/21/2021	01/21/2022	01/21/2022	04/12/2022	04/12/2022
						Sample Time	13:10	11:45	10:30	15:50	17:30	10:40	10:55
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.0	< 2.5	< 2.5	< 2.3	< 2.2	< 2.1	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.41	< 0.50	< 0.50	< 0.48	< 0.45	< 0.43	< 0.48
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.48	< 0.59	< 0.59	< 0.57	< 0.53	< 0.51	< 0.56
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.21	< 0.26	< 0.26	< 0.24	< 0.23	< 0.22	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.71	< 0.87	< 0.87	< 0.83	< 0.78	< 0.74	< 0.82
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.22	< 0.28	< 0.28	< 0.26	< 0.25	< 0.24	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.26	< 0.32	< 0.32	< 0.30	< 0.28	< 0.27	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 0.92	< 1.1	< 1.1	< 1.1	< 1.0	< 0.96	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.46	< 0.56	< 0.56	< 0.54	< 0.50	< 0.48	< 0.53
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.1	< 1.3	< 1.3	< 1.3	< 1.2	< 1.1	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.61	< 0.75	< 0.75	< 0.71	< 0.67	< 0.64	< 0.71
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.17	< 0.20	< 0.20	< 0.20	< 0.18	< 0.17	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.25	< 0.31	< 0.31	< 0.29	< 0.28	< 0.26	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.47	< 0.58	< 0.58	< 0.56	< 0.52	< 0.50	< 0.55
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.16	< 0.19	< 0.19	< 0.19	< 0.17	< 0.17	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.45	< 0.55	< 0.55	< 0.53	< 0.50	< 0.47	< 0.52
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.31	< 0.38	< 0.38	< 0.36	< 0.34	< 0.32	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.27	< 0.33	< 0.33	< 0.31	< 0.29	< 0.28	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.81	< 0.99	< 0.99	< 0.95	< 0.89	< 0.85	< 0.94
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.20	< 0.25	< 0.25	< 0.23	< 0.22	< 0.21	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.1	< 2.6	< 2.6	< 2.4	< 2.3	< 2.2	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.38	< 0.47	< 0.47	< 0.45	< 0.42	< 0.40	< 0.45
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.82	< 1.0	< 1.0	< 0.96	< 0.90	< 0.85	< 0.95
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.36	< 0.44	< 0.44	< 0.42	< 0.39	< 0.37	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.72	< 0.89	< 0.89	< 0.85	< 0.80	< 0.76	< 0.84
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.0	< 1.2	< 1.2	< 1.2	< 1.1	< 1.0	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.1	< 1.3	< 1.3	< 1.3	< 1.2	< 1.1	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.2	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.71	< 0.87	< 0.87	< 0.83	< 0.78	< 0.74	< 0.82
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.2	< 1.5	< 1.5	< 1.5	< 1.4	< 1.3	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.33	< 0.41	< 0.41	< 0.39	< 0.37	< 0.35	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.20	< 0.25	< 0.25	< 0.23	< 0.22	< 0.21	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.27	< 0.33	< 0.33	< 0.31	< 0.29	< 0.28	< 0.31

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

ng/L = nanograms per liter

Data Qualifiers

J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Field Blank					
						Location ID	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK
						Sample Type Code	FB	FB	FB	FB	FB	FB	FB
						Sample Name	FB-01-202207	FB-02-202207	FB-01-202210	FB-01-202304	FB-02-202304	FB-01-202306	FB-01-202308
						Sample Date	07/26/2022	07/27/2022	10/11/2022	04/04/2023	04/05/2023	06/14/2023	08/29/2023
						Sample Time	16:25	13:30	10:25	10:00	13:00	11:00	12:18
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.2	< 2.2	< 2.3	< 2.2	< 1.9	< 2.2	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.44	< 0.45	< 0.47	< 0.44	< 0.40	< 0.45	< 0.47
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.53	< 0.53	< 0.56	< 0.52	< 0.47	< 0.53	< 0.56
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.23	< 0.23	< 0.24	< 0.23	< 0.20	< 0.23	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.77	< 0.77	< 0.81	< 0.77	< 0.69	< 0.78	< 0.81
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.24	< 0.25	< 0.26	< 0.24	< 0.22	< 0.25	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.28	< 0.28	< 0.30	< 0.28	< 0.25	< 0.28	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 1.0	< 1.1	< 0.99	< 0.89	< 1.0	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.50	< 0.50	< 0.53	< 0.50	< 0.44	< 0.50	< 0.53
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 1.2	< 1.2	< 1.2	< 1.0	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.66	< 0.67	< 0.70	< 0.66	< 0.59	< 0.67	< 0.70
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.18	< 0.18	< 0.19	< 0.18	< 0.16	< 0.18	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.27	< 0.27	< 0.29	< 0.27	< 0.24	< 0.27	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.52	< 0.52	< 0.55	< 0.51	< 0.46	< 0.52	< 0.55
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.17	< 0.17	< 0.18	< 0.17	< 0.15	< 0.17	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.49	< 0.49	< 0.52	< 0.49	< 0.44	< 0.49	< 0.52
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.34	< 0.34	< 0.35	< 0.33	< 0.30	< 0.34	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.29	< 0.29	< 0.31	< 0.29	< 0.26	< 0.29	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.88	< 0.88	< 0.93	< 0.88	< 0.78	< 0.89	< 0.93
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.22	< 0.22	< 0.23	< 0.22	< 0.19	< 0.22	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.3	< 2.3	< 2.4	< 2.3	< 2.0	< 2.3	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.42	< 0.42	< 0.44	< 0.42	< 0.37	< 0.42	< 0.44
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.89	< 0.89	< 0.94	< 0.89	< 0.79	< 0.90	< 0.94
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.39	< 0.39	< 0.41	< 0.39	< 0.35	< 0.39	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.79	< 0.79	< 0.83	< 0.79	< 0.70	< 0.80	< 0.83
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 1.1	< 1.1	< 1.1	< 0.97	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 1.2	< 1.2	< 1.2	< 1.0	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.3	< 1.3	< 1.1	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.77	< 0.77	< 0.81	< 0.77	< 0.69	< 0.78	< 0.81
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 1.4	< 1.4	< 1.4	< 1.2	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.36	< 0.36	< 0.38	< 0.36	< 0.32	< 0.37	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.22	< 0.22	< 0.23	< 0.22	< 0.19	< 0.22	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.29	< 0.29	< 0.31	< 0.29	< 0.26	< 0.29	< 0.31

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

ng/L = nanograms per liter

Data Qualifiers

J = Estimated concentration

Table 5 - Quality Control Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL				
					Sample Type	**Field Blank**			
					Location ID	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK	FIELD_BLANK
					Sample Type Code	FB	FB	FB	FB
					Sample Name	FB-01-202308	FB-02-202308	FB-01-202311	FB-02-202311
					Sample Date	08/29/2023	08/30/2023	11/08/2023	11/08/2023
					Sample Time	16:00	14:50	10:30	15:20
Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.1	< 2.1	< 2.4	< 2.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.43	< 0.43	< 0.48	< 0.45
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.51	< 0.50	< 0.57	< 0.53
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.22	< 0.22	< 0.25	< 0.23
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.74	< 0.74	< 0.83	< 0.78
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.24	< 0.23	< 0.27	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.27	< 0.27	< 0.30	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 0.96	< 0.96	< 1.1	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.48	< 0.48	< 0.54	< 0.51
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.3	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.64	< 0.64	< 0.72	< 0.67
Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.17	< 0.17	< 0.20	< 0.18
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.26	< 0.26	< 0.29	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.50	< 0.50	< 0.56	< 0.52
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.17	< 0.17	< 0.19	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.47	< 0.47	< 0.53	< 0.50
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.32	< 0.32	< 0.36	< 0.34
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.28	< 0.28	< 0.31	< 0.29
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.85	< 0.84	< 0.95	< 0.89
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.21	< 0.21	< 0.24	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.2	< 2.2	< 2.5	< 2.3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.40	< 0.40	< 0.45	< 0.42
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols									
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.85	< 0.85	< 0.96	< 0.90
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.37	< 0.37	< 0.42	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.76	< 0.76	< 0.85	< 0.80
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.0	< 1.0	< 1.2	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.1	< 1.1	< 1.3	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.4	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.74	< 0.74	< 0.83	< 0.78
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.5	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.35	< 0.35	< 0.39	< 0.37
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.21	< 0.21	< 0.24	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.28	< 0.28	< 0.31	< 0.29

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
ng/L = nanograms per liter

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater									
				Location ID		2304_CARPENTER_SWAIN	IPW-01	IPW-01	IPW-02	IPW-02	MP-01-(051-088)	MP-01-(051-088)	MP-01-(051-088)	MP-01-(051-088)	MP-01-(051-088)
				Depth Interval							51 - 88 ft	51 - 88 ft	51 - 88 ft	51 - 88 ft	51 - 88 ft
				Sample Type Code		N	N	N	N	N	N	N	N	N	N
				Sample Name		2304 CARPENTER SWAIN - 20210721	IPW-01-202105	IPW-01-20210716	IPW-02-202105	IPW-02-20210716	MP-01-(051-088)-202201	MP-01-(051-088)-202204	MP-01-(051-088)-202207	MP-01-(051-088)-202210	MP-01-(051-088)-202306
						07/21/2021	05/17/2021	07/16/2021	05/17/2021	07/16/2021	01/21/2022	04/12/2022	07/27/2022	10/13/2022	06/14/2023
				Sample Time		10:28	16:10	13:10	16:03	13:05	15:30	18:35	16:15	16:00	10:45
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**										
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.3	< 2.1	< 2.1	< 2.1	< 2.6	280	360	590	580	500
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.47	< 0.43	< 0.42	< 0.44	< 0.53	1000	1700	2600	2800	2100
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.55	< 0.51	< 0.50	< 0.52	< 0.63	900	1200	2300	2100	1700
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.24	< 0.22	< 0.21	< 0.22	< 0.27	410	590	1200	1000	880
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.81	< 0.75	< 0.73	< 0.76	< 0.92	**680**	**980**	**2100**	**1700**	**1400**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.26	< 0.24	< 0.23	< 0.24	< 0.29	**36**	**52**	**100**	**89**	**70**
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.30	< 0.27	< 0.27	< 0.28	< 0.34	10	13	33	33	27
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.0	< 0.97	< 0.95	< 0.98	< 1.2	< 1.3	< 1.1	1.1 J	< 1.4	1.3 J
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.52	< 0.49	< 0.47	< 0.49	< 0.60	< 0.67	< 0.53	< 0.52	< 0.68	< 0.62
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.1	< 1.2	< 1.4	< 1.6	< 1.3	< 1.2	< 1.6	< 1.5
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.70	< 0.65	< 0.63	< 0.65	< 0.79	< 0.89	< 0.71	< 0.69	< 0.91	< 0.82
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.83 J	< 0.18	< 0.17	< 0.18	< 0.22	0.48 J	0.69	1.1 J	1.0 J	0.81 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.29	< 0.27	< 0.26	< 0.27	< 0.33	< 0.37	0.46	1.0 J	0.86 J	0.52 J
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.54	< 0.50	< 0.49	< 0.51	< 0.62	3.3	3.6	*5.6*	*4.9*	*4.5*
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.17	< 0.16	< 0.17	< 0.21	< 0.23	< 0.18	< 0.18	< 0.24	< 0.21
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.52	< 0.48	< 0.46	< 0.48	< 0.59	*8.6*	*12*	**21**	**21**	*18*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.35	< 0.33	< 0.32	< 0.33	< 0.40	< 0.45	< 0.36	< 0.35	< 0.46	< 0.42
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.31	< 0.28	< 0.27	< 0.29	< 0.35	< 0.39	< 0.31	< 0.30	< 0.40	< 0.36
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.93	< 0.86	< 0.83	< 0.87	< 1.1	< 1.2	< 0.94	< 0.92	< 1.2	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.23	< 0.21	< 0.21	< 0.21	< 0.26	62	66	120	99	62
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.4	< 2.2	< 2.1	< 2.2	< 2.7	5000 J	5400 J	6400 J	8000 J	6500 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.44	< 0.41	< 0.40	< 0.41	< 0.50	1200	1500	2800	2800	2900
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.94	< 0.87	< 0.84	< 0.88	1.2 J	< 1.2	< 0.95	< 0.93	< 1.2	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.41	< 0.38	< 0.37	< 0.38	< 0.47	< 0.52	< 0.42	< 0.41	< 0.53	< 0.49
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.83	< 0.77	< 0.75	< 0.78	< 0.95	< 1.1	< 0.84	< 0.83	< 1.1	< 0.98
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.0	< 1.1	< 1.3	< 1.5	< 1.2	< 1.1	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.4	< 1.6	< 1.3	< 1.2	< 1.6	< 1.5
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.2	< 1.3	< 1.5	< 1.7	< 1.4	< 1.3	< 1.7	< 1.6
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.81	< 0.75	< 0.73	< 0.76	< 0.92	< 1.0	< 0.82	< 0.81	< 1.1	< 0.96
Replacement Chemicals															
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.3	< 1.3	< 1.6	< 1.8	< 1.5	< 1.4	< 1.9	< 1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.38	< 0.35	< 0.34	< 0.36	< 0.43	< 0.49	< 0.39	< 0.38	< 0.50	< 0.45
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.23	< 0.21	< 0.21	< 0.21	< 0.26	< 0.29	< 0.23	< 0.23	< 0.30	< 0.27
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.31	< 0.28	< 0.27	< 0.29	< 0.35	< 0.39	< 0.31	< 0.30	< 0.40	< 0.36
Combined Standard															
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	None	none	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	None	none	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	None	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	6	2.2	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Checked by: J. Ramey, 10/1/2024

CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	Groundwater								
						Location ID	MP-01-(051-088)	MP-01-(051-088)	MP-01-(091-118)	MP-01-(091-118)	MP-01-(091-118)	MP-01-(091-118)	MP-01-(091-118)	MP-01-(091-118)	MP-01-(091-118)
						Depth Interval	51 - 88 ft	51 - 88 ft	91 - 118 ft	91 - 118 ft	91 - 118 ft	91 - 118 ft	91 - 118 ft	91 - 118 ft	91 - 118 ft
						Sample Type Code	N	N	N	N	N	N	N	N	N
						Sample Name	MP-01-(051-088)-202308	MP-01-(051-088)-202311	MP-01-(091-118)-202201	MP-01-(091-118)-202204	MP-01-(091-118)-202207	MP-01-(091-118)-202210	MP-01-(091-118)-202306	MP-01-(091-118)-202308	MP-01-(091-118)-202311
						Sample Date	08/30/2023	11/08/2023	01/21/2022	04/12/2022	07/27/2022	10/13/2022	06/14/2023	08/30/2023	11/08/2023
						Sample Time	11:30	10:00	15:19	18:15	16:05	15:45	10:33	11:20	09:45
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**										
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	420	560	140	100	120	150	300	350	440
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	390	2700	600	450	530	660	1400	2600	3200
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	240	1800	420	350	440	570	1000	1500	1500
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	110	930	190	150	180	220	440	660	810
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**110**	**1200**	**320**	**270**	**330**	**390**	**830**	**1100**	**1100**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	**71**	**74**	*16*	*16*	*18*	*26*	**50**	**62**	**81**
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	25	26	2.8	2.5	2.3	3.4	10	11	13
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.4	1.3 J	< 1.2	< 1.4	< 1.1	< 1.2	< 1.1	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.68	< 0.62	< 0.61	< 0.72	< 0.54	< 0.59	< 0.57	< 0.57	< 0.62
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.4	< 1.7	< 1.3	< 1.4	< 1.4	< 1.3	< 1.5
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.91	< 0.82	< 0.81	< 0.96	< 0.72	< 0.78	< 0.76	< 0.76	< 0.83
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.93	0.30 J	0.40 J	< 0.26	0.33 J	0.48 J	0.61 J	0.78	0.31 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	0.59	0.66 J	< 0.33	< 0.39	< 0.29	< 0.32	0.41 J	< 0.31	0.68 J
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	*4.6*	*4.4*	2.4	1.9	1.8 J	2.1	*4.3*	*4.6*	*4.9*
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	1.0 J	< 0.21	< 0.21	< 0.25	< 0.19	< 0.20	< 0.20	< 0.20	< 0.21
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	*18*	*16*	*4.3*	*5.3*	*4.9*	*7.7*	*14*	*16*	*18*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.46	< 0.42	< 0.41	< 0.49	< 0.36	< 0.40	< 0.39	< 0.38	< 0.42
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.40	< 0.36	< 0.36	< 0.42	< 0.31	< 0.34	< 0.33	< 0.33	< 0.36
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.2	< 1.1	< 1.1	< 1.3	< 0.95	< 1.0	< 1.0	< 1.0	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	62	69	33	26	27	33	57	77	68
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	1200	4700	3800	4000	3000	4400	6000 J	6800 J	4100
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	300	2300	340	290	320	390	1200	1100	1400
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.2	< 1.1	< 1.1	< 1.3	< 0.96	< 1.1	< 1.0	< 1.0	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.53	< 0.48	< 0.48	< 0.56	< 0.42	< 0.46	< 0.45	< 0.44	< 0.49
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 0.98	< 0.97	< 1.1	< 0.85	< 0.93	< 0.91	< 0.90	< 0.98
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.3	< 1.6	< 1.2	< 1.3	< 1.3	< 1.2	< 1.4
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.6	< 1.5	< 1.4	< 1.7	< 1.3	< 1.4	< 1.4	< 1.3	< 1.5
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.7	< 1.6	< 1.6	< 1.8	< 1.4	< 1.5	< 1.5	< 1.4	< 1.6
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.1	< 0.96	< 0.95	< 1.1	< 0.83	< 0.91	< 0.89	< 0.88	< 0.96
Replacement Chemicals															
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.9	< 1.7	< 1.7	< 2.0	< 1.5	< 1.6	< 1.6	< 1.6	< 1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	0.61	< 0.45	< 0.45	< 0.52	< 0.39	< 0.43	< 0.42	< 0.41	< 0.45
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.30	< 0.27	< 0.27	< 0.31	< 0.24	< 0.26	< 0.25	< 0.25	< 0.27
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.40	< 0.36	< 0.36	< 0.42	< 0.31	< 0.34	< 0.33	< 0.33	< 0.36
Combined Standard															
Color, Field	Color-F	Field	none	-	-	NA	NA	None	faint yellow	light yellow	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	76	34.8	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater							
						Location ID	MP-01-(121-152)	MP-01-(121-152)	MP-01-(121-152)	MP-01-(121-152)	MP-01-(121-152)	MP-01-(121-152)	MP-01-(121-152)	MP-01-(155-195)	MP-01-(155-195)
						Depth Interval	121 - 152 ft	121 - 152 ft	121 - 152 ft	121 - 152 ft	121 - 152 ft	121 - 152 ft	121 - 152 ft	155 - 195 ft	155 - 195 ft
						Sample Type Code	N	N	N	N	N	N	N	N	N
						Sample Name	MP-01-(121-152)-202201	MP-01-(121-152)-202204	MP-01-(121-152)-202207	MP-01-(121-152)-202210	MP-01-(121-152)-202306	MP-01-(121-152)-202308	MP-01-(121-152)-202311	MP-01-(155-195)-202201	MP-01-(155-195)-202204
						Sample Date	01/21/2022	04/12/2022	07/27/2022	10/13/2022	06/14/2023	08/30/2023	11/08/2023	01/21/2022	04/12/2022
						Sample Time	15:05	18:05	15:55	15:30	10:19	11:10	09:37	14:50	17:50
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	350	340 J	360	360	360	370	400	310	340 J
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	1200	1700	1700	1800	1700	1900	1900	1200	1600
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	980	1200	1300	1500	1300	1500	1400	1100	1200
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	400	430	580	590	550	560	570	360	460
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**880**	**980**	**1200**	**1300**	**1200**	**1200**	**900**	**700**	**930**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	**46**	**49 J**	**65 J**	**72 J**	**77**	**66**	**43 J**	**41**	**47 J**
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	3.2	2.9 J	3.2 J	5.2 J	14	13	9.4	2.8	2.7 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.3	< 1.2	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.58	< 0.54	< 0.59	< 0.57	< 0.61	< 0.64	< 0.61	< 0.62	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.5	< 1.5	< 1.5	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.77	< 0.71	< 0.79	< 0.76	< 0.81	< 0.85	< 0.82	< 0.82	< 0.71
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.71 J	0.96	1.1 J	1.0 J	0.92 J	0.98	0.57 J	0.76 J	0.85
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	0.72 J	0.66	0.84 J	0.89 J	0.69 J	0.68	0.90 J	0.70 J	0.65
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	*5.6*	*5.9*	*6.3 J*	*6.7 J*	*6.9*	*6.8*	< 13	*5.0*	*5.6*
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.18	< 0.21	1.0 IJ	< 0.21	< 0.22	< 4.2	< 0.21	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	*15*	*16*	*18 J*	**20 J**	**24**	**23**	**21 J**	*13*	*17*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.36	< 0.40	< 0.38	< 0.41	< 0.43	< 8.3	< 0.42	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34	< 0.31	< 0.35	< 0.33	< 0.36	< 0.37	< 7.1	< 0.36	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 0.94	< 1.0	< 1.0	< 1.1	< 1.1	< 22	< 1.1	< 0.95
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	86	92 J	89	88 J	70	80	86	71	87 J
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	5800 J	7500 J	8800 J	7300 J	6900 J	7800 J	5900	6300 J	6300 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	520	470	500	710 J	1900	1500 J	1300	480	430
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 0.95	< 1.1	< 1.0	1.5 J	< 1.1	< 1.1	< 1.1	1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.45	< 0.42	< 0.46	< 0.45	< 0.48	< 0.50	< 0.48	< 0.49	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.91	< 0.85	< 0.94	< 0.90	< 0.97	< 1.0	< 0.97	< 0.98	< 0.85
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3	< 1.4	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.5	< 29	< 1.5	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.5	< 1.5	< 1.6	< 1.6	< 1.6	< 1.6	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.89	< 0.83	< 0.92	< 0.88	< 0.94	< 0.99	< 0.95	< 0.96	< 0.83
Replacement Chemicals															
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.6	< 1.6	< 1.7	< 1.7	< 1.7	< 1.7	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.42	< 0.39	< 0.43	< 0.41	< 0.44	< 0.46	< 8.9	< 0.45	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.25	< 0.23	< 0.26	< 0.25	< 0.27	< 0.28	< 5.4	< 0.27	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34	< 0.31	< 0.35	< 0.33	< 0.36	< 0.37	< 7.1	< 0.36	< 0.31
Combined Standard															
Color, Field	Color-F	Field	none	-	-	None	none	none	NA	NA	NA	NA	None	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	None	none	none	NA	NA	NA	NA	None	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	None	NA	NA	NA	NA	NA	NA	None	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	1	1.9	NA	NA	NA	NA	NA	7
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater								
						Location ID	MP-01-(155-195)	MP-01-(155-195)	MP-01-(155-195)	MP-01-(155-195)	MP-01-(155-195)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)
						Depth Interval	155 - 195 ft	155 - 195 ft	155 - 195 ft	155 - 195 ft	155 - 195 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft
						Sample Type Code	N	N	N	N	N	N	FD	N	FD
						Sample Name	MP-01-(155-195)-202207	MP-01-(155-195)-202210	MP-01-(155-195)-202306	MP-01-(155-195)-202308	MP-01-(155-195)-202311	MP-01-(198-220)-202201	DUP-05-202201	MP-01-(198-220)-202204	DUP-05-202204
						Sample Date	07/27/2022	10/13/2022	06/14/2023	08/30/2023	11/08/2023	01/21/2022	01/21/2022	04/12/2022	04/12/2022
						Sample Time	15:40	15:15	10:07	11:00	09:24	14:02	00:00	17:30	00:00
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	370	330	350	410	360	190	180	55	56
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	1700	1800	1500	2100	1900	730	740	270	260
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	1200	1300	1200	1700	1200	650	590	210	190
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	510	490	530	610	520	210	210	71	66
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**1000**	**1200**	**1100**	**1200**	**900**	**410**	**460**	**150**	**150**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	**59 J**	**65**	**64**	**78**	**55**	*22*	*22*	*7.1*	*8.6*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	3.2	5.6 J	11	13	8.2	2.7	2.9 J	0.78	0.95
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 1.1	< 1.2	< 1.3	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.65	< 0.55	< 0.61	< 0.67	< 12	< 0.59	< 0.55	< 0.54	< 0.56
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.5	< 1.3	< 1.4	< 1.6	< 28	< 1.4	< 1.3	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.86	< 0.74	< 0.81	< 0.89	< 0.78	< 0.78	< 0.72	< 0.72	< 0.75
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	1.0 J	1.0 J	0.86 JI	1.2	0.47 J	0.47 J	0.59 J	0.23	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	0.84 J	0.81 J	0.65 J	0.78	0.88 J	< 0.32	0.56 J	< 0.30	< 0.31
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	*6.1 J*	*6.1*	*6.6*	*7.5*	< 12	3.4	2.9	1.3	1.2
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.22	1.2 IJ	< 0.21	< 0.23	< 4.0	< 0.20	< 0.19	< 0.19	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	*16 J*	*16*	**20**	**27**	*16 J*	*7.0*	*6.3*	*2.6*	*3.4*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.44	< 0.37	< 0.41	< 0.45	< 7.9	< 0.39	< 0.37	< 0.36	< 0.38
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.38	< 0.32	< 0.36	< 0.39	< 6.8	< 0.34	< 0.32	< 0.31	< 0.33
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 0.98	< 1.1	< 1.2	< 21	< 1.0	< 0.96	< 0.95	< 0.99
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	89	88	71	97	85	44	46	15	15
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	9500 J	6800 J	7600 J	7900 J	4400 J	4300	4300	2200	2000
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	490	670	1500	1600 J	1000	400	310	120	160
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.2	< 0.99	1.3 J	< 1.2	< 21	< 1.0	< 0.97	< 0.96	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.51	< 0.43	< 0.48	< 0.52	< 0.46	< 0.46	< 0.43	< 0.42	< 0.44
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.0	< 0.88	< 0.97	< 1.1	< 0.92	< 0.93	< 0.86	< 0.86	< 0.89
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.4	< 1.2	< 1.3	< 1.5	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.5	< 1.3	< 1.4	< 1.6	< 28	< 1.4	< 1.3	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.7	< 1.4	< 1.6	< 1.7	< 1.5	< 1.5	< 1.4	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.0	< 0.86	< 0.94	< 1.0	< 0.90	< 0.91	< 0.84	< 0.84	< 0.87
Replacement Chemicals															
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.8	< 1.5	< 1.7	< 1.8	< 1.6	< 1.6	< 1.5	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.47	< 0.40	< 0.44	< 0.49	< 8.5	< 0.43	< 0.40	< 0.39	< 0.41
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.28	< 0.24	< 0.27	< 0.29	< 5.1	< 0.26	< 0.24	< 0.24	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.38	< 0.32	< 0.36	< 0.39	< 6.8	< 0.34	< 0.32	< 0.31	< 0.33
Combined Standard															
Color, Field	Color-F	Field	none	-	-	none	NA	NA	NA	NA	None	NA	none	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	none	NA	NA	NA	NA	None	NA	none	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	None	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	13.5	NA	NA	NA	NA	NA	NA	4	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater									
				Location ID		MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)	MP-01-(198-220)
				Depth Interval		198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft
				Sample Type Code		N	FD	FD	FD	N	FD	FD	N	N	FD
				Sample Name		MP-01-(198-220)-202207	DUP-04-202207	MP-01-(198-220)-202210	DUP-04-202210	MP-01-(198-220)-202306	DUP-01-202306	DUP-08-202308	MP-01-(198-220)-202308	MP-01-(198-220)-202311	DUP-08-202311
				Sample Date		07/27/2022	07/27/2022	10/13/2022	10/13/2022	06/14/2023	06/14/2023	08/28/2023	08/30/2023	11/08/2023	11/08/2023
				Sample Time		15:30	00:00	15:00	00:00	09:51	00:00	00:00	10:50	09:10	00:00
Analytes[1]	**CAS RN**	**Method**	**Units**	**ES**	**PAL**										
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	22	18	12	12	2.9 J	3.4 J	2.7	2.5	< 2.6	< 2.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	100	95	52	50	14	14	12	12	9.0	10
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	75	69	42	47	11	11	9.1	10	7.4	7.7
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	29	24	15	17	3.9	4.2	3.4	3.2	1.9 J	2.7
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**55**	**49**	**32**	**31**	*8.6*	*8.4*	*7.2*	*7.3*	*5.5*	*5.0*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	2.9	2.5	1.5 J	1.7 J	< 0.27	< 0.27	< 0.27	0.49	< 0.29	< 0.29
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.33	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.33	< 0.33
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.58	< 0.54	< 0.55	< 0.55	< 0.55	< 0.55	< 0.54	< 0.55	< 0.59	< 0.58
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.77	< 0.72	< 0.73	< 0.73	< 0.73	< 0.73	< 0.72	< 0.72	< 0.78	< 0.78
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.37 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.21	< 0.21
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.31	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.32	< 0.32
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.60	< 0.56	< 0.57	< 0.57	< 0.57	< 0.57	< 0.56	< 0.57	< 0.61	< 0.61
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	1.1 J	0.92 J	0.57 J	< 0.54	< 0.54	< 0.54	< 0.53	< 0.54	< 0.58	< 0.57
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.36	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.39	< 0.39
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.34	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 0.96	< 0.97	< 0.97	< 0.96	< 0.96	< 0.96	< 0.96	< 1.0	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	6.0	4.9	3.2	3.1	0.78 J	0.69 J	0.65	0.69	< 0.26	0.62 J
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	850	750	530	460	130	120	110	120	82	81
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	46	46	27 J	28	9.1	7.8	6.8 J	9.1 J	4.9	4.5
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 0.97	< 0.98	< 0.98	< 0.97	< 0.97	< 0.97	< 0.97	< 1.0	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.45	< 0.42	< 0.43	< 0.43	< 0.43	< 0.43	< 0.42	< 0.43	< 0.46	< 0.46
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.91	< 0.86	< 0.87	< 0.87	< 0.86	< 0.86	< 0.86	< 0.86	< 0.93	< 0.92
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.89	< 0.84	< 0.85	< 0.85	< 0.84	< 0.84	< 0.84	< 0.84	< 0.91	< 0.90
Replacement Chemicals															
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.6	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.42	< 0.39	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.43	< 0.42
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.25	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.26	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.34	< 0.34
Combined Standard															
Color, Field	Color-F	Field	none	-	-	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	none	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		**Groundwater**							
				Location ID		MP-01-(223-250)	MP-01-(223-250)	MP-01-(223-250)	MP-01-(223-250)	MP-01-(223-250)	MP-01-(223-250)	MP-01-(223-250)	MP-01-(253-274)
				Depth Interval		223 - 250 ft	223 - 250 ft	223 - 250 ft	223 - 250 ft	223 - 250 ft	223 - 250 ft	223 - 250 ft	253 - 274 ft
				Sample Type Code		N	N	N	N	N	N	N	N
				Sample Name		MP-01-(223-250)-202201	MP-01-(223-250)-202204	MP-01-(223-250)-202207	MP-01-(223-250)-202210	MP-01-(223-250)-202306	MP-01-(223-250)-202308	MP-01-(223-250)-202311	MP-01-(253-274)-202201
				Sample Date		01/21/2022	04/12/2022	07/27/2022	10/13/2022	06/14/2023	08/30/2023	11/08/2023	01/21/2022
				Sample Time		13:43	17:05	15:10	14:45	09:29	10:40	08:53	13:20
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.4	< 2.3	< 2.6	< 2.4	< 2.7	< 2.4	< 2.5	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.50	< 0.48	< 0.52	< 0.49	< 0.56	< 0.48	< 0.51	0.74 J
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.59	< 0.57	< 0.62	< 0.58	< 0.66	< 0.57	< 0.61	< 0.57
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.25	< 0.24	< 0.27	< 0.25	< 0.28	< 0.25	< 0.26	< 0.25
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.86	< 0.83	< 0.91	< 0.85	< 0.96	< 0.84	< 0.89	< 0.84
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.27	< 0.26	< 0.29	< 0.27	< 0.31	< 0.27	< 0.28	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.31	< 0.30	< 0.33	< 0.31	< 0.35	< 0.31	< 0.33	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.56	< 0.54	< 0.59	< 0.55	< 0.62	< 0.54	< 0.58	< 0.55
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.4	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.74	< 0.71	< 0.78	< 0.73	< 0.83	< 0.72	< 0.77	< 0.72
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.20	< 0.21	< 0.20	< 0.23	< 0.20	< 0.21	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.29	< 0.32	< 0.30	< 0.34	< 0.30	< 0.32	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.58	< 0.56	< 0.61	< 0.57	< 0.65	< 0.56	< 0.60	< 0.57
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.19	< 0.20	< 0.19	< 0.22	< 0.19	< 0.20	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.55	< 0.53	< 0.58	< 0.54	< 0.61	< 0.53	< 0.57	< 0.54
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.38	< 0.36	< 0.40	< 0.37	< 0.42	< 0.36	< 0.39	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.31	< 0.34	< 0.32	< 0.36	< 0.32	< 0.34	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.98	< 0.95	< 1.0	< 0.97	< 1.1	< 0.96	< 1.0	< 0.96
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.24	< 0.23	< 0.26	< 0.24	< 0.27	< 0.24	< 0.25	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	4.6 J	2.4	< 2.7	< 2.5	< 2.8	< 2.5	< 2.6	7.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.47	< 0.45	< 0.49	< 0.46	< 0.52	0.84	< 0.48	0.49 J
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	*2.7*	< 1.0	< 0.98	< 1.1	< 0.97	< 1.0	< 0.97
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.44	< 0.42	< 0.46	< 0.43	< 0.49	< 0.42	< 0.45	< 0.43
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.88	< 0.85	< 0.93	< 0.87	< 0.99	< 0.86	< 0.91	< 0.86
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.3	< 1.2	< 1.4	< 1.2	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.4	< 1.3	< 1.5	< 1.3	< 1.4	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.5	< 1.4	< 1.6	< 1.4	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.86	< 0.83	< 0.91	< 0.85	< 0.96	< 0.84	< 0.89	< 0.84
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.6	< 1.5	< 1.7	< 1.5	< 1.6	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.41	< 0.39	< 0.43	< 0.40	< 0.45	< 0.39	< 0.42	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.23	< 0.26	< 0.24	< 0.27	< 0.24	< 0.25	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.31	< 0.34	< 0.32	< 0.36	< 0.32	< 0.34	< 0.32
Combined Standard													
Color, Field	Color-F	Field	none	-	-	None	none	none	NA	NA	NA	NA	None
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	None	none	none	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	None	NA	NA	NA	NA	NA	NA	None
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	1	1.7	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater								
				Location ID		MP-01-(253-274)	MP-01-(253-274)	MP-01-(253-274)	MP-01-(253-274)	MP-01-(253-274)	MP-01-(253-274)	MP-01-(277-293)	MP-01-(277-293)
				Depth Interval		253 - 274 ft	253 - 274 ft	253 - 274 ft	253 - 274 ft	253 - 274 ft	253 - 274 ft	277 - 293 ft	277 - 293 ft
				Sample Type Code		N	N	N	N	N	N	N	N
				Sample Name		MP-01-(253-274)-202204	MP-01-(253-274)-202207	MP-01-(253-274)-202210	MP-01-(253-274)-202306	MP-01-(253-274)-202308	MP-01-(253-274)-202311	MP-01-(277-293)-202201	MP-01-(277-293)-202204
				Sample Date		04/12/2022	07/27/2022	10/13/2022	06/14/2023	08/30/2023	11/08/2023	01/21/2022	04/12/2022
				Sample Time		16:55	14:55	14:20	09:15	10:30	08:43	12:30	16:35
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.6	5.7	< 2.5	< 2.4	< 2.3	< 2.7	7.0	6.0
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.54	27	0.62 J	< 0.48	< 0.47	< 0.56	27	26
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.63	20	< 0.61	< 0.57	< 0.56	< 0.66	25	20
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.27	8.0	< 0.26	< 0.25	< 0.24	< 0.29	7.4	7.7
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.93	*16*	< 0.90	< 0.84	< 0.82	< 0.97	*15*	*15*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.30	0.83 J	< 0.29	< 0.27	< 0.26	< 0.31	0.58 J	0.90
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.34	< 0.32	< 0.33	< 0.30	< 0.30	< 0.36	< 0.29	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.1	< 1.2	< 1.1	< 1.1	< 1.3	< 1.0	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.60	< 0.57	< 0.58	< 0.54	< 0.53	< 0.63	< 0.52	< 0.53
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.5	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.80	< 0.76	< 0.77	< 0.72	< 0.71	< 0.84	< 0.69	< 0.70
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.22	< 0.21	< 0.21	< 0.20	< 0.19	< 0.23	< 0.19	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.33	< 0.31	< 0.32	< 0.29	< 0.29	< 0.34	< 0.28	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.62	< 0.59	< 0.60	< 0.56	< 0.55	< 0.65	< 0.54	< 0.54
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.21	< 0.20	< 0.20	< 0.19	< 0.18	< 0.22	< 0.18	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.59	< 0.56	< 0.57	< 0.53	< 0.52	< 0.62	< 0.51	0.52
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.40	< 0.38	< 0.39	< 0.36	< 0.36	< 0.42	< 0.35	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.35	< 0.33	< 0.34	< 0.31	< 0.31	< 0.37	< 0.30	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 1.0	< 1.0	< 0.95	< 0.94	< 1.1	< 0.91	< 0.93
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.26	1.4 J	< 0.25	< 0.24	< 0.23	< 0.27	< 0.23	1.5
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.7	250	4.5 J	< 2.5	2.8	< 2.9	250	250
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.50	15	< 0.49	< 0.45	2.7	< 0.53	21	17
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.1	< 1.0	< 1.0	< 0.96	< 0.95	< 1.1	< 0.92	< 0.94
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.47	< 0.45	< 0.46	< 0.42	< 0.42	< 0.49	< 0.40	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.95	< 0.90	< 0.92	< 0.85	< 0.84	< 1.0	< 0.82	< 0.83
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.3	< 1.2	< 1.2	< 1.4	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.5	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.5	< 1.4	< 1.4	< 1.6	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.93	< 0.88	< 0.90	< 0.84	< 0.82	< 0.97	< 0.80	< 0.81
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.6	< 1.6	< 1.5	< 1.4	< 1.7	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.44	< 0.42	< 0.42	< 0.39	< 0.39	< 0.46	< 0.38	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.26	< 0.25	< 0.25	< 0.24	< 0.23	< 0.27	< 0.23	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.35	< 0.33	< 0.34	< 0.31	< 0.31	< 0.37	< 0.30	< 0.31
Combined Standard													
Color, Field	Color-F	Field	none	-	-	none	none	NA	NA	NA	NA	None	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	none	none	NA	NA	NA	NA	None	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	None	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	1	7	NA	NA	NA	NA	NA	292
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater							
						Location ID	MP-01-(277-293)	MP-01-(277-293)	MP-01-(277-293)	MP-01-(277-293)	MP-01-(277-293)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)
						Depth Interval	277 - 293 ft	277 - 293 ft	277 - 293 ft	277 - 293 ft	277 - 293 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft
						Sample Type Code	N	N	N	N	N	N	FD	N
						Sample Name	MP-01-(277-293)-202207	MP-01-(277-293)-202210	MP-01-(277-293)-202306	MP-01-(277-293)-202308	MP-01-(277-293)-202311	MP-02-(153-195)-202201	DUP-03-202201	MP-02-(153-195)-202204
						Sample Date	07/27/2022	10/13/2022	06/14/2023	08/30/2023	11/08/2023	01/21/2022	01/21/2022	04/12/2022
						Sample Time	14:40	14:05	09:00	10:20	08:15	09:46	00:00	14:50
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.5	5.0 J	< 2.4	< 2.4	< 2.7	74	77	56
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.52	20	0.67 J	1.5	< 0.55	310	290	260
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.61	16	< 0.57	1.4	< 0.65	200	210	170
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.26	5.9	0.25 J	0.34	< 0.28	100	86	74
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.90	*12*	< 0.84	< 0.84	< 0.95	**88**	**83**	**83**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.28	0.77 J	< 0.27	< 0.27	< 0.30	*17 J*	*12 J*	*15*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.33	< 0.34	< 0.30	< 0.30	< 0.35	< 0.30	< 0.31	4.0
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.58	< 0.61	< 0.54	< 0.54	< 0.61	< 0.53	< 0.56	< 0.51
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.4	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3 J	< 1.3 J	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.77	< 0.81	< 0.72	< 0.72	< 0.81	< 0.70 J	< 0.74 J	< 0.68
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		< 0.21	< 0.22	< 0.20	< 0.20	< 0.22	< 0.19	< 0.20	0.39
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.32	< 0.33	< 0.29	< 0.29	< 0.33	< 0.29	< 0.30	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.60	< 0.63	< 0.56	< 0.56	< 0.64	0.97 J	0.94 J	0.73
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.20	< 0.21	< 0.19	< 0.19	< 0.21	< 0.18	< 0.19	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.57	< 0.60	< 0.53	< 0.53	< 0.60	*2.6*	*2.3*	*2.7*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.39	< 0.41	< 0.36	< 0.36	< 0.41	< 0.36	< 0.37	< 0.34
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.34	< 0.35	< 0.31	< 0.31	< 0.36	< 0.31	< 0.32	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 1.0	< 1.1	< 0.95	< 0.95	< 1.1	< 0.94	< 0.98	< 0.90
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.25	1.2 J	< 0.24	< 0.24	< 0.27	3.0	3.3	3.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.6	200	3.7 J	7.2	< 2.8	820	1100	700
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.49	12	1.4 J	6.2	< 0.51	130	130	110
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 1.0	< 1.1	< 0.96	< 0.96	< 1.1	< 0.95	< 0.99	< 0.91
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.45	< 0.47	< 0.42	< 0.42	< 0.48	< 0.41	< 0.44	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.92	< 0.96	< 0.85	< 0.86	< 0.97	< 0.84	< 0.88	< 0.81
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.4	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.5	< 1.5	< 1.4	< 1.4	< 1.6	< 1.4	< 1.4	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.90	< 0.94	< 0.84	< 0.84	< 0.95	< 0.82	< 0.86	< 0.79
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.6	< 1.7	< 1.5	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.42	< 0.44	< 0.39	< 0.39	< 0.45	< 0.39	< 0.40	< 0.37
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.25	< 0.27	< 0.24	< 0.24	< 0.27	< 0.23	< 0.24	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.34	< 0.35	< 0.31	< 0.31	< 0.36	< 0.31	< 0.32	< 0.30
Combined Standard														
Color, Field	Color-F	Field	none	-	-		light brown	NA	NA	NA	NA	Brown	NA	light brown
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		none	NA	NA	NA	NA	None	NA	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		NA	NA	NA	NA	NA	VERY	NA	High
Turbidity, Field	Turb-F	Field	ntu	-	-		20.7	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater						
						Location ID	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)
						Depth Interval	153 - 195 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft
						Sample Type Code	N	N	N	N	N	N	N	FD
						Sample Name	MP-02-(153-195)-202207-A	MP-02-(153-195)-202207-B	MP-02-(153-195)-202207-C	MP-02-(153-195)-202210-A	MP-02-(153-195)-202210-B	MP-02-(153-195)-202210-C	MP-02-(153-195)-202306	DUP-02-202306
						Sample Date	07/27/2022	07/27/2022	07/27/2022	10/12/2022	10/12/2022	10/12/2022	06/13/2023	06/13/2023
						Sample Time	11:25	12:15	13:15	09:10	10:05	11:25	14:35	00:00
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		66	67	NA	71	73	77	71	71
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		310	310	NA	410	360	360	290	300
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		210	210	NA	230	220	200	200	210
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		94	94	NA	99	99	94	87	100
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		**79**	**89**	NA	**120**	**110**	**100**	**89**	**97**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		*10*	*12*	NA	*18*	*12*	*13*	*9.8*	*10*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		1.4 J	1.4 J	NA	3.3	2.3	2.6	1.8 J	2.2
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.1	< 1.1	NA	< 1.1	< 1.1	< 1.2	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.54	< 0.54	NA	< 0.57	< 0.55	< 0.58	< 0.55	< 0.59
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.3	< 1.3	NA	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.71	< 0.71	NA	< 0.76	< 0.73	< 0.77	< 0.73	< 0.78
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		0.42 J	0.30 J	NA	0.54 J	0.45 J	0.41 J	< 0.20	0.60 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.29	< 0.29	NA	< 0.31	< 0.30	< 0.32	< 0.30	< 0.32
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		0.85 J	0.78 J	NA	0.81 J	0.91 J	0.99 J	< 0.57	< 0.61
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.18	< 0.19	NA	< 0.20	< 0.19	< 0.20	< 0.19	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		*2.4*	*2.4*	NA	*3.4*	*3.0*	*2.9*	*3.1*	1.5 J
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.36	< 0.36	NA	< 0.38	< 0.37	< 0.39	< 0.37	< 0.40
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.31	< 0.31	NA	< 0.33	< 0.32	< 0.34	< 0.32	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.94	< 0.95	NA	< 1.0	< 0.98	< 1.0	< 0.97	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		3.5	3.2	NA	3.2	4.4	3.6	3.5	3.5
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		600	520	NA	920	640	920	1100	930
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		26	27	NA	140	120	150	220	190
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.95	< 0.96	NA	< 1.0	< 0.99	< 1.0	< 0.98	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.42	< 0.42	NA	< 0.45	< 0.43	< 0.45	< 0.43	< 0.46
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.85	< 0.85	NA	< 0.90	< 0.87	< 0.91	< 0.87	< 0.93
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.2	< 1.2	NA	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.3	< 1.3	NA	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.4	< 1.4	NA	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.83	< 0.83	NA	< 0.88	< 0.85	< 0.89	< 0.85	< 0.91
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.5	< 1.5	NA	< 1.6	< 1.5	< 1.6	< 1.5	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.39	< 0.39	NA	< 0.42	< 0.40	< 0.42	< 0.40	< 0.43
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.23	< 0.24	NA	< 0.25 UJ	< 0.24 UJ	< 0.25 UJ	< 0.24	< 0.26
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.31	< 0.31	NA	< 0.33	< 0.32	< 0.34	< 0.32	< 0.34
Combined Standard														
Color, Field	Color-F	Field	none	-	-		brown	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		none	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		high	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	2900	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater						
						Location ID	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(153-195)	MP-02-(198-220)	MP-02-(198-220)	MP-02-(198-220)	MP-02-(198-220)
						Depth Interval	153 - 195 ft	153 - 195 ft	153 - 195 ft	153 - 195 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft
						Sample Type Code	FD	N	FD	N	N	N	FD	N
						Sample Name	DUP-07-202308	MP-02-(153-195)-202308	DUP-07-202311	MP-02-(153-195)-202311	MP-02-(198-220)-202201	MP-02-(198-220)-202204	DUP-04-202204	MP-02-(198-220)-202207
						Sample Date	08/28/2023	08/30/2023	11/06/2023	11/07/2023	01/19/2022	04/12/2022	04/12/2022	07/27/2022
						Sample Time	00:00	09:40	00:00	14:40	16:13	14:05	00:00	10:53
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	73	72	61	68	30	31 J	49 J	33
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	330	310	330	300	130	140 J	240 J	160
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	180	200	190	180	81	81 J	170 J	92
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	90	92	85	98	22	26 J	71 J	31
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**97**	**98**	**84**	**91**	**23**	**27 J**	**66 J**	**30**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	*8.7*	*10*	*8.3 J*	*11 J*	1.7 J	1.9 J	*7.8 J*	2.2
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	1.7	2.1	2.0 J	2.1 J	< 0.31	< 0.29	1.5	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.0	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.55	< 0.60	< 0.60	< 0.59	< 0.55	< 0.52	< 0.55	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.2	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.73	< 0.79	< 0.79	< 0.79	< 0.73	< 0.69	< 0.73	< 0.72
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.42	0.49	0.45 J	< 0.22	< 0.20	0.25	0.26	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.32	< 0.33	< 0.32	< 0.30	< 0.28	< 0.30	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	0.94	1.0	0.95 J	1.1 J	< 0.57	0.57	0.71	0.64 J
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.21	< 0.21	< 0.20	< 0.19	< 0.18	< 0.19	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	*2.5*	*3.3*	*2.8*	*3.6*	0.62 J	0.69	1.8	0.84 J
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.37	< 0.40	< 0.40	< 0.40	< 0.37	< 0.35	< 0.37	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.35	< 0.35	< 0.35	< 0.32	< 0.30	< 0.32	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.98	< 1.1	< 1.1	< 1.0	< 0.97	< 0.92	< 0.97	< 0.95
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	4.2	4.1	4.0	3.9	4.8	4.8 J	2.8 J	4.9
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	1200	1300	1300	1300	390	470	530	540
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	200	260	180 J	250 J	11	13 J	48 J	15
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.99	< 1.1	< 1.1	< 1.1	< 0.98	< 0.93	< 0.98	< 0.96
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.43	< 0.47	< 0.47	< 0.46	< 0.43	< 0.41	< 0.43	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.87	< 0.94	< 0.95	< 0.94	< 0.87	< 0.83	< 0.87	< 0.86
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.3	< 1.3	< 1.3	< 1.2	< 1.1	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.2	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.5	< 1.5	< 1.5	< 1.4	< 1.3	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.85	< 0.92	< 0.93	< 0.92	< 0.85	< 0.81	< 0.85	< 0.84
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.6	< 1.6	< 1.6	< 1.5	< 1.4	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.40	< 0.43	< 0.44	< 0.43	< 0.40	< 0.38	< 0.40	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.26	< 0.26	< 0.26	< 0.24	< 0.23	< 0.24	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.35	< 0.35	< 0.35	< 0.32	< 0.30	< 0.32	< 0.31
Combined Standard														
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	None	faint yellow	NA	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	NA	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	None	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	2	NA	4.1
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater							
				Location ID		MP-02-(198-220)	MP-02-(198-220)	MP-02-(198-220)	MP-02-(198-220)	MP-02-(223-250)	MP-02-(223-250)	MP-02-(223-250)
				Depth Interval		198 - 220 ft	198 - 220 ft	198 - 220 ft	198 - 220 ft	223 - 250 ft	223 - 250 ft	223 - 250 ft
				Sample Type Code		N	N	N	N	N	N	N
				Sample Name		MP-02-(198-220)-202210	MP-02-(198-220)-202306	MP-02-(198-220)-202308	MP-02-(198-220)-202311	MP-02-(223-250)-202201	MP-02-(223-250)-202204	MP-02-(223-250)-202207
				Sample Date		10/12/2022	06/13/2023	08/30/2023	11/07/2023	01/19/2022	04/12/2022	07/27/2022
				Sample Time		08:50	14:16	09:30	14:17	15:54	13:35	10:40
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	33	35	34	33	< 2.4	< 2.3	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	180	160	200	170	< 0.49	< 0.48	< 0.48
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	99	100	110	100	< 0.58	< 0.56	< 0.57
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	33	35	40	39	< 0.25	< 0.24	< 0.25
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**36**	**32**	**40**	**34**	< 0.84	< 0.83	< 0.84
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	2.3	2.3	*3.1*	2.2	< 0.27	< 0.26	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.33	< 0.31	< 0.38	< 0.33	< 0.31	< 0.30	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.1	< 1.3	< 1.2	< 1.1	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.58	< 0.55	< 0.67	< 0.59	< 0.55	< 0.53	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.6	< 1.4	< 1.3	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.77	< 0.73	< 0.89	< 0.79	< 0.73	< 0.71	< 0.72
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.21	< 0.20	< 0.24	< 0.22	< 0.20	< 0.19	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.31	< 0.30	< 0.36	< 0.32	< 0.30	< 0.29	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	0.85 J	< 0.57	0.70	0.63 J	< 0.57	< 0.55	< 0.56
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.19	< 0.23	< 0.21	< 0.19	< 0.18	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.57	< 0.54	0.99	0.92 J	< 0.54	< 0.52	< 0.53
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.37	< 0.45	< 0.40	< 0.37	< 0.36	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34	< 0.32	< 0.39	< 0.35	< 0.32	< 0.31	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 0.97	< 1.2	< 1.0	< 0.96	< 0.94	< 0.95
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	6.3	5.1	6.6	4.7	< 0.24	< 0.23	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	610	560	560	570	< 2.5	5.4	< 2.5
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	20	23	26	21	< 0.46	< 0.45	< 0.45
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 0.98	< 1.2	< 1.1	< 0.97	< 0.95	< 0.96
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.45	< 0.43	< 0.52	< 0.46	< 0.43	< 0.42	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.91	< 0.87	< 1.1	< 0.94	< 0.86	< 0.85	< 0.86
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.5	< 1.3	< 1.2	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.3	< 1.6	< 1.4	< 1.3	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.7	< 1.5	< 1.4	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.89	< 0.85	< 1.0	< 0.92	< 0.84	< 0.83	< 0.84
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.8	< 1.6	< 1.5	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.42	< 0.40	< 0.49	< 0.43	< 0.40	< 0.39	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.25 UJ	< 0.24	< 0.29	< 0.26	< 0.24	< 0.23	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34	< 0.32	< 0.39	< 0.35	< 0.32	< 0.31	< 0.31
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	None	faint yellow	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	None	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	2	3.5
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-02-(223-250)	MP-02-(223-250)	MP-02-(223-250)	MP-02-(223-250)	MP-02-(253-276)	MP-02-(253-276)	MP-02-(253-276)
						Depth Interval	223 - 250 ft	223 - 250 ft	223 - 250 ft	223 - 250 ft	253 - 276 ft	253 - 276 ft	253 - 276 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-02-(223-250)-202210	MP-02-(223-250)-202306	MP-02-(223-250)-202308	MP-02-(223-250)-202311	MP-02-(253-276)-202201	MP-02-(253-276)-202204	MP-02-(253-276)-202207
						Sample Date	10/12/2022	06/13/2023	08/30/2023	11/07/2023	01/19/2022	04/12/2022	07/27/2022
						Sample Time	08:35	14:02	09:20	14:03	15:18	13:25	10:30
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.4	< 2.6	< 3.0	< 2.3	< 2.5	< 2.6	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.49	< 0.54	< 0.60	< 0.48	2.0 J	< 0.53	< 0.48
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.58	< 0.64	< 0.71	< 0.56	1.3 J	< 0.63	< 0.56
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.25	< 0.28	< 0.31	< 0.24	< 0.26	< 0.27	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.84	< 0.94	< 1.0	< 0.83	0.89 J	< 0.92	< 0.83
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.27	< 0.30	< 0.33	< 0.26	< 0.28	< 0.29	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.31	< 0.34	< 0.38	< 0.30	< 0.32	< 0.34	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.2	< 1.4	< 1.1	< 1.1	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.55	< 0.61	< 0.68	< 0.53	< 0.57	< 0.60	< 0.53
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.4	< 1.6	< 1.3	< 1.4	< 1.4	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.72	< 0.80	< 0.90	< 0.71	< 0.76	< 0.79	< 0.71
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.22	< 0.25	< 0.19	< 0.21	< 0.22	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.33	< 0.37	< 0.29	< 0.31	< 0.33	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.57	< 0.63	< 0.70	< 0.55	< 0.59	< 0.62	< 0.55
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.21	< 0.23	< 0.18	< 0.20	< 0.21	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.54	< 0.59	< 0.66	< 0.53	< 0.56	< 0.59	< 0.52
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.37	< 0.41	< 0.45	< 0.36	< 0.39	< 0.40	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.35	< 0.39	< 0.31	< 0.33	< 0.35	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.96	< 1.1	< 1.2	< 0.94	< 1.0	< 1.1	< 0.94
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.24	< 0.26	< 0.30	< 0.23	< 0.25	< 0.26	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.5	< 2.8	< 3.1	< 2.4	8.7	< 2.7	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.46	0.56 J	< 0.57	< 0.45	1.2 J	< 0.50	< 0.45
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.97	< 1.1	< 1.2	< 0.95	< 1.0	< 1.1	< 0.95
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.43	< 0.47	< 0.53	< 0.42	< 0.45	< 0.47	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.86	< 0.96	< 1.1	< 0.85	< 0.91	< 0.94	< 0.85
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.3	< 1.5	< 1.2	< 1.3	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.4	< 1.6	< 1.3	< 1.4	< 1.4	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.5	< 1.7	< 1.4	< 1.5	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.84	< 0.94	< 1.0	< 0.83	< 0.89	< 0.92	< 0.83
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.7	< 1.8	< 1.5	< 1.6	< 1.6	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.40	< 0.44	< 0.49	< 0.39	< 0.42	< 0.43	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.26	< 0.30	< 0.23	< 0.25	< 0.26	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.35	< 0.39	< 0.31	< 0.33	< 0.35	< 0.31
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	None	faint yellow	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	None	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	1	3.2
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
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mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Groundwater						
Sample Type												
Location ID						MP-02-(253-276)	MP-02-(253-276)	MP-02-(253-276)	MP-02-(253-276)	MP-02-(279-300)	MP-02-(279-300)	MP-02-(279-300)
Depth Interval						253 - 276 ft	253 - 276 ft	253 - 276 ft	253 - 276 ft	279 - 300 ft	279 - 300 ft	279 - 300 ft
Sample Type Code						N	N	N	N	N	N	N
Sample Name						MP-02-(253-276)-202210	MP-02-(253-276)-202306	MP-02-(253-276)-202308	MP-02-(253-276)-202311	MP-02-(279-300)-202201	MP-02-(279-300)-202204	MP-02-(279-300)-202207
Sample Date						10/12/2022	06/13/2023	08/30/2023	11/07/2023	01/19/2022	04/12/2022	07/27/2022
Sample Time						08:20	13:48	09:10	13:40	14:56	13:05	10:15
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.5	< 2.4	< 2.4	< 2.6	15	< 2.8	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	2.0 J	< 0.49	< 0.48	< 0.52	50	6.4	1.3 J
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	0.98 IJ	< 0.58	0.58	< 0.62	38	4.4	0.93 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.26	< 0.25	< 0.25	< 0.27	14	1.9	0.47 J
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	1.1 J	< 0.85	< 0.84	< 0.91	*15*	1.9	< 0.83
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.28	< 0.27	< 0.27	< 0.29	1.5 J	< 0.32	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.32	< 0.31	< 0.31	< 0.33	< 0.30	< 0.37	< 0.30
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.3	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.57	< 0.55	< 0.54	< 0.59	< 0.54	< 0.65	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.5	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.76	< 0.73	< 0.72	< 0.78	< 0.71	< 0.86	< 0.72
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.21	< 0.20	< 0.20	< 0.21	< 0.19	< 0.24	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.31	< 0.30	< 0.30	< 0.32	< 0.29	< 0.35	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.59	< 0.57	< 0.56	< 0.61	< 0.56	< 0.67	< 0.56
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.22	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.56	< 0.54	< 0.53	< 0.58	0.60 J	< 0.64	< 0.53
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.37	< 0.37	< 0.39	< 0.36	< 0.44	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.33	< 0.32	< 0.32	< 0.34	< 0.31	< 0.38	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 0.97	< 0.96	< 1.0	< 0.95	< 1.1	< 0.95
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.25	< 0.24	< 0.24	< 0.26	< 0.23	< 0.28	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.6	< 2.5	< 2.5	< 2.7	240	27	4.3 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.48	< 0.46	< 0.45	< 0.49	30	3.7	0.71 J
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 0.98	< 0.97	< 1.0	< 0.95	< 1.2	< 0.96
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.45	< 0.43	< 0.43	< 0.46	< 0.42	< 0.51	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.91	< 0.87	< 0.86	< 0.93	< 0.85	< 1.0	< 0.85
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.4	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.5	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.4	< 1.5	< 1.4	< 1.6	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.89	< 0.85	< 0.84	< 0.91	< 0.83	< 1.0	< 0.83
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.5	< 1.6	< 1.5	< 1.8	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.42	< 0.40	< 0.40	< 0.43	< 0.39	< 0.47	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.25	< 0.24	< 0.24	< 0.26	< 0.23	< 0.28	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.33	< 0.32	< 0.32	< 0.34	< 0.31	< 0.38	< 0.31
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	None	faint yellow	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	slight sulfur
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	None	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	2	3
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

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su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-02-(279-300)	MP-02-(279-300)	MP-02-(279-300)	MP-02-(279-300)	MP-03-(046-080)	MP-03-(046-080)	MP-03-(046-080)
						Depth Interval	279 - 300 ft	279 - 300 ft	279 - 300 ft	279 - 300 ft	46 - 80 ft	46 - 80 ft	46 - 80 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-02-(279-300)-202210	MP-02-(279-300)-202306	MP-02-(279-300)-202308	MP-02-(279-300)-202311	MP-03-(046-080)-202201	MP-03-(046-080)-202204	MP-03-(046-080)-202207
						Sample Date	10/12/2022	06/13/2023	08/30/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022
						Sample Time	08:00	13:35	08:55	13:24	14:16	12:25	16:12
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.3	< 2.4	< 2.5	< 2.3	17	18	22
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	0.63 J	< 0.48	0.56	< 0.47	36	47	69
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.56	< 0.57	0.82	< 0.56	23	25	34
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.26	< 0.24	49	49	53
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.82	< 0.84	1.0	< 0.82	*16*	*15*	*13*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.26	< 0.27	< 0.28	< 0.26	2.2	1.9	2.0
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.30	< 0.30	< 0.32	< 0.30	0.86 J	0.78	0.45 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0	< 1.8	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.53	< 0.54	< 0.57	< 0.53	< 0.51	< 0.90	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.4	< 1.3	< 1.2	< 2.1	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.71	< 0.72	< 0.76	< 0.71	< 0.68	< 1.2	< 0.71
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.19	< 0.20	< 0.21	< 0.19	0.27 J	< 0.33	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.29	< 0.30	< 0.31	< 0.29	< 0.28	< 0.49	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.55	< 0.56	< 0.60	< 0.55	0.66 J	< 0.94	< 0.56
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.19	< 0.20	< 0.18	< 0.18	< 0.31	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.52	< 0.53	< 0.56	< 0.52	1.2 J	< 0.89	0.59 J
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.36	< 0.36	< 0.39	< 0.36	< 0.34	< 0.61	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.31	< 0.31	< 0.33	< 0.31	< 0.30	< 0.53	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.94	< 0.95	< 1.0	< 0.94	< 0.90	< 1.6	< 0.94
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.23	< 0.24	< 0.25	< 0.23	< 0.22	< 0.39	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.4	< 2.5	< 2.6	< 2.4	18	6.1	5.9
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.45	< 0.45	< 0.48	< 0.45	25 J	12	7.9
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.95	< 0.96	< 1.0	< 0.95	< 0.91	< 1.6	< 0.95
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.42	< 0.42	< 0.45	< 0.42	< 0.40	< 0.71	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.84	< 0.86	< 0.91	< 0.84	< 0.81	< 1.4	< 0.85
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.3	< 1.2	< 1.1	< 2.0	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.4	< 1.3	< 1.2	< 2.1	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.5	< 1.4	< 1.3	< 2.3	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.82	< 0.84	< 0.89	< 0.82	< 0.79	< 1.4	< 0.83
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.6	< 1.5	< 1.4	< 2.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.39	< 0.39	< 0.42	< 0.39	< 0.37	< 0.66	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.23	< 0.24	< 0.25	< 0.23	< 0.22	< 0.39	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.31	< 0.31	< 0.33	< 0.31	< 0.30	< 0.53	< 0.31
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	Brown	none	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	SLIGHT	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	16	2
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	NR 140 ES	NR 140 PAL	MP-03-(046-080)	MP-03-(046-080)	MP-03-(046-080)	MP-03-(046-080)	MP-03-(083-117)	MP-03-(083-117)	MP-03-(083-117)
Sample Type						Groundwater						
Location ID						MP-03-(046-080)	MP-03-(046-080)	MP-03-(046-080)	MP-03-(046-080)	MP-03-(083-117)	MP-03-(083-117)	MP-03-(083-117)
Depth Interval						46 - 80 ft	46 - 80 ft	46 - 80 ft	46 - 80 ft	83 - 117 ft	83 - 117 ft	83 - 117 ft
Sample Type Code						N	N	N	N	N	N	N
Sample Name						MP-03-(046-080)-202210	MP-03-(046-080)-202306	MP-03-(046-080)-202308	MP-03-(046-080)-202311	MP-03-(083-117)-202201	MP-03-(083-117)-202204	MP-03-(083-117)-202207
Sample Date						10/11/2022	06/13/2023	08/29/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022
Sample Time						15:15	12:20	16:55	12:30	13:47	12:05	16:00
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	30	50	56	50	24	22	24
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	92	170	180	200	52	55	51
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	48	96	94	88	29	29	29
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	55	96	92	91	60	58	52
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	*12*	*16*	*9.9*	*6.2*	**20**	**20**	*19*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	1.1 J	1.3 J	0.93	< 0.35	2.5	2.7	2.3
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.38	< 0.32	< 0.40	< 0.40	< 0.36	1.2	0.73 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 1.1	< 1.4	< 1.4	< 1.3	< 1.3	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.67	< 0.57	< 0.72	< 0.70	< 0.63	< 0.64	< 0.53
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.6	< 1.4	< 1.7	< 1.7	< 1.5	< 1.5	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.89	< 0.76	< 0.95	< 0.94	< 0.84	< 0.85	< 0.70
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.55 J	0.53 J	0.60	< 0.26	< 0.23	0.38	0.53 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.37	< 0.31	< 0.39	< 0.38	< 0.35	< 0.35	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.70	< 0.59	< 0.74	< 0.73	< 0.66	< 0.67	< 0.55
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.23	< 0.20	< 0.25	< 0.24	< 0.22	< 0.22	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.66	< 0.56	0.97	< 0.69	1.3 J	1.6	1.3 J
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.45	< 0.38	< 0.48	< 0.47	< 0.43	< 0.43	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.39	< 0.33	< 0.42	< 0.41	< 0.37	< 0.37	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.2	< 1.0	< 1.3	< 1.2	< 1.1	< 1.1	< 0.94
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.29	< 0.25	< 0.31	< 0.31	< 0.28	< 0.28	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 3.1	< 2.6	< 3.3	< 3.2	13	13	10
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	0.57 J	< 0.48	< 0.60	< 0.59	36	35	25
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.2	< 1.0	< 1.3	< 1.3	< 1.1	< 1.1	< 0.95
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.53	< 0.45	< 0.56	< 0.55	< 0.49	< 0.50	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 0.91	< 1.1	< 1.1	< 1.0	< 1.0	< 0.84
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.5	< 1.2	< 1.6	< 1.5	< 1.4	< 1.4	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.6	< 1.4	< 1.7	< 1.7	< 1.5	< 1.5	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.7	< 1.5	< 1.8	< 1.8	< 1.6	< 1.6	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.0	< 0.88	< 1.1	< 1.1	< 0.98	< 0.99	< 0.82
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.8	< 1.6	< 2.0	< 1.9	< 1.7	< 1.8	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.49	< 0.42	< 0.52	< 0.51	< 0.46	< 0.47	< 0.39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.29	< 0.25	< 0.31	< 0.31	< 0.28	< 0.28	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.39	< 0.33	< 0.42	< 0.41	< 0.37	< 0.37	< 0.31
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	Brown	none	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	SLIGHT	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	5	2.2
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**					
						Location ID	MP-03-(083-117)	MP-03-(083-117)	MP-03-(083-117)	MP-03-(083-117)	MP-03-(120-157)	MP-03-(120-157)	MP-03-(120-157)
						Depth Interval	83 - 117 ft	83 - 117 ft	83 - 117 ft	83 - 117 ft	120 - 157 ft	120 - 157 ft	120 - 157 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-03-(083-117)-202210	MP-03-(083-117)-202306	MP-03-(083-117)-202308	MP-03-(083-117)-202311	MP-03-(120-157)-202201	MP-03-(120-157)-202204	MP-03-(120-157)-202207
						Sample Date	10/11/2022	06/13/2023	08/29/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022
						Sample Time	14:45	12:06	16:45	12:18	13:26	11:50	15:50
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	27	24	31	25	17	15	18
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	48	42	45	42	27	29	30
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	24	26	25	22	15	15	17
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	50	38	33	31	12	10	12
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**20**	*19*	*18*	*17*	*7.1*	*6.7*	*9.5*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	2.2	1.6 J	1.2	0.95 J	< 0.28	0.40	0.58 J
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	0.78 J	0.43 J	< 0.35	< 0.35	< 0.33	< 0.41	< 0.32
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.0	< 1.2	< 1.2	< 1.2	< 1.5	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.58	< 0.52	< 0.62	< 0.62	< 0.58	< 0.73	< 0.57
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.2	< 1.5	< 1.5	< 1.4	< 1.7	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.76	< 0.69	< 0.82	< 0.82	< 0.77	< 0.96	< 0.75
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.52 J	0.58 J	0.73	0.28 J	0.33 J	0.46	0.53 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.31	< 0.28	< 0.34	< 0.34	< 0.32	< 0.40	< 0.31
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.60	< 0.54	0.67	< 0.64	< 0.60	< 0.75	< 0.59
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.18	< 0.21	< 0.21	< 0.20	< 0.25	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	1.5 J	1.0 J	*4.2 J*	*4.5*	1.9 J	*3.1*	*3.7*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.35	< 0.41	< 0.41	< 0.39	< 0.49	< 0.38
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34	< 0.30	< 0.36	< 0.36	< 0.34	< 0.42	< 0.33
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 0.92	< 1.1	< 1.1	< 1.0	< 1.3	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.25	< 0.23	< 0.27	< 0.27	< 0.25	< 0.32	< 0.25
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	8.5	< 2.4	3.2	< 2.8	< 2.6	< 3.3	< 2.6
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	24	3.1	4.2	2.1 J	< 0.48	< 0.61	< 0.47
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 0.93	< 1.1	< 1.1	< 1.0	< 1.3	1.6 J
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.45	< 0.41	< 0.48	< 0.48	< 0.45	< 0.57	< 0.44
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.91	< 0.83	< 0.97	< 0.97	< 0.91	< 1.1	< 0.89
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.1	< 1.3	< 1.3	< 1.3	< 1.6	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.2	< 1.5	< 1.5	< 1.4	< 1.7	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.3	< 1.6	< 1.6	< 1.5	< 1.8	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.89	< 0.81	< 0.95	< 0.95	< 0.89	1.2	< 0.87
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.4	< 1.7	< 1.7	< 1.6	< 2.0	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.42	< 0.38	< 0.45	< 0.45	< 0.42	< 0.53	< 0.41
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.25	< 0.23	< 0.27	< 0.27	< 0.25	< 0.32	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34	< 0.30	< 0.36	< 0.36	< 0.34	< 0.42	< 0.33
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	Brown	none	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	None	none	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	VERY	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	4	7.3
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater						
						Location ID	MP-03-(120-157)	MP-03-(120-157)	MP-03-(120-157)	MP-03-(120-157)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)
						Depth Interval	120 - 157 ft	120 - 157 ft	120 - 157 ft	120 - 157 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft
						Sample Type Code	N	N	N	N	N	FD	N	FD
						Sample Name	MP-03-(120-157)-202210	MP-03-(120-157)-202306	MP-03-(120-157)-202308	MP-03-(120-157)-202311	MP-03-(160-187)-202201	DUP-02-202201	MP-03-(160-187)-202204	DUP-03-202204
						Sample Date	10/11/2022	06/13/2023	08/29/2023	11/07/2023	01/19/2022	01/19/2022	04/12/2022	04/12/2022
						Sample Time	14:25	11:50	16:35	12:05	12:06	00:00	11:35	00:00
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		19	16	20	17	34	31	51	46
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		29	24	31	32	100	98	200	190
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		16	15	17	15	69	70	120	120
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		13	11	12	15	55	54	68	64
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		*9.1*	*8.0*	*8.9*	*9.4*	**30**	**32**	**52**	**51**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		0.59 J	< 0.30	0.56	0.37 J	*3.1*	*3.4*	*5.3*	*4.2*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.31	< 0.34	< 0.34	< 0.34	< 0.32	< 0.32	0.98	0.65
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.1	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.56	< 0.60	< 0.60	< 0.60	< 0.57	< 0.57	< 0.59	< 0.52
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.74	< 0.80	< 0.79	< 0.80	< 0.76	< 0.75	< 0.78	< 0.69
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		0.66 J	0.46 J	0.59	< 0.22	0.21 J	< 0.21	0.43	0.32
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.30	< 0.33	< 0.33	< 0.33	< 0.31	< 0.31	< 0.32	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.58	< 0.63	< 0.62	< 0.62	< 0.59	< 0.59	0.72	< 0.54
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.19	< 0.21	< 0.21	< 0.21	< 0.20	< 0.20	< 0.20	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		*3.9*	1.4 J	*4.7 J*	*4.9*	1.1 J	1.3 J	*2.0*	1.6
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.38	< 0.41	< 0.40	< 0.40	< 0.38	< 0.38	< 0.39	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.32	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.34	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.98	< 1.1	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.92
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.24	< 0.26	< 0.26	< 0.26	1.8 J	1.4 J	3.4	3.3
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.5	< 2.7	< 2.7	< 2.7	310	320	550	510
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.47	< 0.51	< 0.50	< 0.50	63	51	70 J	51 J
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.99	1.8 J	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 0.93
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.44	< 0.47	< 0.47	< 0.47	< 0.45	< 0.44	< 0.46	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.88	< 0.96	< 0.94	< 0.95	< 0.90	< 0.90	< 0.93	< 0.82
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.2	< 1.3	< 1.3	< 1.3	< 1.2	< 1.2	< 1.3	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.3	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.86	< 0.93	< 0.92	< 0.93	< 0.88	< 0.88	< 0.91	< 0.80
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.5	< 1.6	< 1.6	< 1.6	< 1.6	< 1.5	< 1.6	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.41	< 0.44	< 0.43	< 0.44	< 0.41	< 0.41	< 0.43	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.24	< 0.26	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.32	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.34	< 0.30
Combined Standard														
Color, Field	Color-F	Field	none	-	-		NA	NA	NA	NA	None	NA	none	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		NA	NA	NA	NA	None	NA	none	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		NA	NA	NA	NA	None	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-		NA	NA	NA	NA	NA	NA	5	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)	MP-03-(160-187)
						Depth Interval	160 - 187 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft	160 - 187 ft
						Sample Type Code	N	FD	N	FD	N	FD	N	FD
						Sample Name	MP-03-(160-187)-202207	DUP-03-202207	MP-03-(160-187)-202210	DUP-03-202210	MP-03-(160-187)-202306	DUP-03-202306	MP-03-(160-187)-202308	DUP-06-202308
						Sample Date	07/26/2022	07/26/2022	10/11/2022	10/11/2022	06/13/2023	06/13/2023	08/29/2023	08/29/2023
						Sample Time	15:35	00:00	14:15	00:00	11:31	00:00	16:20	00:00
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**									
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	57	52	51	55	23	22	19	19
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	320	330	330	330	130	110	84	90
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	170	160	160	180	64	70	60	51
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	75	72	69	73	25	23	18	18
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**72**	**68**	**63**	**65**	**22**	**21**	*16*	*17*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	*5.5*	*5.1*	*5.6*	*6.0*	1.7 J	1.7 J	1.4	1.4
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	0.63 J	0.55 J	0.75 J	0.59 J	0.37 J	0.31 J	< 0.34	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.4	< 1.1	< 1.1	< 1.0	< 1.1	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.53	< 0.70	< 0.55	< 0.55	< 0.52	< 0.55	< 0.60	< 0.56
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.6	< 1.3	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.71	< 0.93	< 0.73	< 0.73	< 0.69	< 0.73	< 0.80	< 0.74
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.38 J	0.26 J	0.26 J	0.26 J	< 0.19	< 0.20	< 0.22	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.29	< 0.38	< 0.30	< 0.30	< 0.28	< 0.30	< 0.33	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	0.82 J	0.76 J	0.91 J	0.67 J	< 0.54	< 0.57	< 0.63	< 0.58
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.24	< 0.19	< 0.19	< 0.18	< 0.19	< 0.21	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	*2.1*	1.6 J	*2.0*	1.6 J	< 0.51	< 0.54	1.0	0.74
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.36	< 0.47	< 0.37	< 0.37	< 0.35	< 0.37	< 0.41	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.31	< 0.41	< 0.32	< 0.32	< 0.30	< 0.32	< 0.35	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.94	< 1.2	< 0.97	< 0.97	< 0.92	< 0.98	< 1.1	< 0.98
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	3.5	3.5	3.6	3.6	0.87 J	0.89 J	0.76	0.80
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	450	370	460	580	160	140	150	150
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	26	23	36	38	12 J	8.4 J	11	10
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.95	< 1.2	< 0.98	< 0.98	1.6 J	< 0.99	< 1.1	< 0.99
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.42	< 0.55	< 0.43	< 0.43	< 0.41	< 0.43	< 0.47	< 0.44
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.85	< 1.1	< 0.87	< 0.87	< 0.82	< 0.88	< 0.95	< 0.88
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.5	< 1.2	< 1.2	< 1.1	< 1.2	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.6	< 1.3	< 1.3	< 1.2	< 1.3	< 1.4	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.8	< 1.4	< 1.4	< 1.3	< 1.4	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.83	< 1.1	< 0.85	< 0.85	< 0.80	< 0.86	< 0.93	< 0.86
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.9	< 1.5	< 1.5	< 1.4	< 1.5	< 1.6	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.39	< 0.51	< 0.40	< 0.40	< 0.38	< 0.40	< 0.44	< 0.41
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.23	< 0.30	< 0.24 UJ	< 0.24	< 0.23	< 0.24	< 0.26	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.31	< 0.41	< 0.32	< 0.32	< 0.30	< 0.32	< 0.35	< 0.32
Combined Standard													
Color, Field	Color-F	Field	none	-	-	none	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	none	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	3.2	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

					Sample Type	Groundwater							
					Location ID	MP-03-(160-187)	MP-03-(160-187)	MP-03-(190-217)	MP-03-(190-217)	MP-03-(190-217)	MP-03-(190-217)	MP-03-(190-217)	
					Depth Interval	160 - 187 ft	160 - 187 ft	190 - 217 ft	190 - 217 ft	190 - 217 ft	190 - 217 ft	190 - 217 ft	
					Sample Type Code	N	FD	N	N	N	N	N	
					Sample Name	MP-03-(160-187)-202311	DUP-06-202311	MP-03-(190-217)-202201	MP-03-(190-217)-202204	MP-03-(190-217)-202207	MP-03-(190-217)-202210	MP-03-(190-217)-202306	
					Sample Date	11/07/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022	10/11/2022	06/13/2023	
					Sample Time	11:40	00:00	11:21	11:05	15:20	14:00	11:12	
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	14	15	4.0 J	< 2.6	< 2.3	< 2.6	< 2.4	
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	84	81	8.1	2.0	4.3	3.2	2.8	
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	47	47	5.1	1.3	2.5	2.0 J	1.9 J	
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	15	15	12	2.1	2.5	1.6 J	0.88 J	
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	*12*	*13*	*4.2*	0.94	1.4 J	1.0 J	0.90 J	
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	0.76 J	1.1 J	0.70 J	< 0.29	< 0.26	< 0.29	< 0.27	
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.33	< 0.33	< 0.31	< 0.34	< 0.30	< 0.34	< 0.31	
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.2	< 1.1	< 1.2	< 1.0	< 1.2	< 1.1	
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.59	< 0.59	< 0.54	< 0.60	< 0.52	< 0.60	< 0.55	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.3	< 1.4	< 1.2	< 1.4	< 1.3	
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.78	< 0.78	< 0.72	< 0.79	< 0.70	< 0.80	< 0.72	
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.21	< 0.21	< 0.20	< 0.22	< 0.19	< 0.22	< 0.20	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.32	< 0.32	< 0.30	< 0.32	< 0.29	< 0.33	< 0.30	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.61	< 0.61	< 0.56	< 0.62	< 0.54	< 0.62	< 0.57	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.20	< 0.19	< 0.21	< 0.18	< 0.21	< 0.19	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	0.64 J	< 0.58	< 0.53	< 0.58	< 0.51	< 0.59	< 0.54	
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.40	< 0.37	< 0.40	< 0.35	< 0.40	< 0.37	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34	< 0.34	< 0.32	< 0.35	< 0.30	< 0.35	< 0.32	
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 1.0	< 0.96	< 1.1	< 0.92	< 1.1	< 0.96	
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.26	0.51 J	< 0.24	< 0.26	< 0.23	< 0.26	< 0.24	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	95	86	8.6	< 2.7	14	15	11	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	6.7	5.0	8.0	1.8	2.2 J	1.2 J	0.70 J	
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 1.1	< 0.97	< 1.1	< 0.93	< 1.1	< 0.97	
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.46	< 0.46	< 0.42	< 0.47	< 0.41	< 0.47	< 0.43	
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.93	< 0.93	< 0.86	< 0.94	< 0.83	< 0.95	< 0.86	
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.2	< 1.3	< 1.1	< 1.3	< 1.2	
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.4	< 1.3	*3.6*	< 1.2	< 1.4	< 1.3	
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.4	< 1.5	< 1.3	< 1.5	< 1.4	
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.91	< 0.91	< 0.84	< 0.92	< 0.81	< 0.93	< 0.84	
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.6	< 1.5	< 1.6	< 1.4	< 1.6	< 1.5	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.43	< 0.43	< 0.39	< 0.43	< 0.38	< 0.44	< 0.40	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.26	< 0.26	< 0.24	< 0.26	< 0.23	< 0.26	< 0.24	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34	< 0.34	< 0.32	< 0.35	< 0.30	< 0.35	< 0.32	
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	None	none	none	NA	NA	
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	sulfur	NA	NA	
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA	
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	3	0.5	NA	NA	
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	

Notes:

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Bold = detection equals or exceeds NR 140 ES

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umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-03-(190-217)	MP-03-(190-217)	MP-03-(220-242)	MP-03-(220-242)	MP-03-(220-242)	MP-03-(220-242)	MP-03-(220-242)
						Depth Interval	190 - 217 ft	190 - 217 ft	220 - 242 ft	220 - 242 ft	220 - 242 ft	220 - 242 ft	220 - 242 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-03-(190-217)-202308	MP-03-(190-217)-202311	MP-03-(220-242)-202201	MP-03-(220-242)-202204	MP-03-(220-242)-202207	MP-03-(220-242)-202210	MP-03-(220-242)-202306
						Sample Date	08/29/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022	10/11/2022	06/13/2023
						Sample Time	15:50	11:30	11:04	10:40	15:07	13:45	10:57
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.7	< 2.5	< 2.8	< 2.8	< 2.4	< 2.3	< 2.6
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	2.9	1.7 J	< 0.56	< 0.57	< 0.48	< 0.48	< 0.53
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	2.6	1.9 J	< 0.67	< 0.67	< 0.57	< 0.57	< 0.62
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	0.96	< 0.26	< 0.29	< 0.29	< 0.24	< 0.24	< 0.27
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	1.1	0.90 J	< 0.98	< 0.98	< 0.83	< 0.83	< 0.91
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.31	< 0.29	< 0.31	< 0.31	< 0.26	< 0.26	< 0.29
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.36	< 0.33	< 0.36	< 0.36	< 0.30	< 0.30	< 0.33
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 1.2	< 1.3	< 1.3	< 1.1	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.63	< 0.58	< 0.63	< 0.64	< 0.54	< 0.54	< 0.59
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.5	< 1.5	< 1.3	< 1.3	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.84	< 0.77	< 0.84	< 0.85	< 0.71	< 0.71	< 0.79
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.23	< 0.21	< 0.23	< 0.23	< 0.20	< 0.20	< 0.22
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.34	< 0.32	< 0.35	< 0.35	< 0.29	< 0.29	< 0.32
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.65	< 0.60	< 0.66	< 0.66	< 0.56	< 0.56	< 0.61
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.22	< 0.20	< 0.22	< 0.22	< 0.19	< 0.19	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.62	< 0.57	< 0.62	< 0.63	< 0.53	< 0.53	< 0.58
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.42	< 0.39	< 0.43	< 0.43	< 0.36	< 0.36	< 0.40
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.37	< 0.34	< 0.37	< 0.37	< 0.31	< 0.31	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 1.0	< 1.1	< 1.1	< 0.95	< 0.95	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.27	< 0.25	< 0.28	< 0.28	< 0.24	< 0.23	< 0.26
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	13	10	< 2.9	< 2.9	< 2.4	< 2.4	< 2.7
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	0.80	< 4.9	< 0.53	< 0.53	< 0.45	< 0.45	< 0.49
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.1	< 1.0	< 1.1	< 1.1	< 0.96	< 0.96	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.49	< 0.46	< 0.50	< 0.50	< 0.42	< 0.42	< 0.46
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.0	< 0.92	< 1.0	< 1.0	< 0.85	< 0.85	< 0.94
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.4	< 1.4	< 1.2	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.5	< 1.4	< 1.5	< 1.5	< 1.3	< 1.3	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.6	< 1.6	< 1.4	< 1.4	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.97	< 0.90	< 0.98	< 0.98	< 0.83	< 0.83	< 0.91
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.7	< 1.6	< 1.7	< 1.7	< 1.5	< 1.5	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.46	< 0.42	< 0.46	< 0.46	< 0.39	< 0.39	< 0.43
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.27	< 0.25	< 0.28	< 0.28	< 0.24	< 0.23	< 0.26
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.37	< 0.34	< 0.37	< 0.37	< 0.31	< 0.31	< 0.34
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	6	5.3	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

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ntu = nephelometric turbidity unit

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su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater							
				Location ID		MP-03-(220-242)	MP-03-(220-242)	MP-03-(245-277)	MP-03-(245-277)	MP-03-(245-277)	MP-03-(245-277)	MP-03-(245-277)
				Depth Interval		220 - 242 ft	220 - 242 ft	245 - 277 ft	245 - 277 ft	245 - 277 ft	245 - 277 ft	245 - 277 ft
				Sample Type Code		N	N	N	N	N	N	N
				Sample Name		MP-03-(220-242)-202308	MP-03-(220-242)-202311	MP-03-(245-277)-202201	MP-03-(245-277)-202204	MP-03-(245-277)-202207	MP-03-(245-277)-202210	MP-03-(245-277)-202306
				Sample Date		08/29/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022	10/11/2022	06/13/2023
				Sample Time		15:40	11:22	09:50	09:55	14:55	13:30	10:42
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 3.0	< 60	< 2.4	< 2.6	< 2.3	< 2.4	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.61	< 12	< 0.49	< 0.53	< 0.48	< 0.48	< 0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	0.91	< 15	< 0.58	< 0.63	< 0.57	< 0.57	< 0.58
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.31	< 6.3	< 0.25	< 0.27	< 0.24	< 0.25	< 0.25
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 1.1	< 21	< 0.85	< 0.93	< 0.83	< 0.84	< 0.84
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.33	< 6.8	< 0.27	< 0.29	< 0.26	< 0.27	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.38	< 7.8	< 0.31	< 0.34	< 0.30	< 0.31	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.4	< 28	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.68	< 14	< 0.55	< 0.60	< 0.54	< 0.54	< 0.55
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.6	< 33	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.90	< 18	< 0.73	< 0.79	< 0.71	< 0.72	< 0.72
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.25	< 5.0	< 0.20	< 0.22	< 0.20	< 0.20	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.37	< 7.5	< 0.30	< 0.33	< 0.29	< 0.30	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.71	< 14	< 0.57	< 0.62	< 0.56	< 0.56	< 0.57
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.24	< 4.8	< 0.19	< 0.21	< 0.19	< 0.19	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.67	< 14	< 0.54	< 0.59	< 0.53	< 0.53	< 0.54
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.46	< 9.3	< 0.37	< 0.40	< 0.36	< 0.36	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.40	< 8.0	< 0.32	< 0.35	< 0.31	< 0.32	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.2	< 24	< 0.97	< 1.1	< 0.95	< 0.96	< 0.96
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.30	< 6.0	< 0.24	< 0.26	< 0.23	< 0.24	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 3.1	< 63	< 2.5	< 2.7	< 2.4	< 2.5	< 2.5
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.57	< 12	< 0.46	< 0.50	< 0.45	< 0.45	< 0.46
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.2	< 25	< 0.98	< 1.1	< 0.96	< 0.97	< 0.97
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.53	< 11	< 0.43	< 0.47	< 0.42	< 0.42	< 0.43
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 22	< 0.87	< 0.95	< 0.85	< 0.86	< 0.86
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.5	< 30	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.6	< 33	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.7	< 35	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.1	< 21	< 0.85	< 0.93	< 0.83	< 0.84	< 0.84
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.9	< 38	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.50	< 10	< 0.40	< 0.44	< 0.39	< 0.39	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.30	< 6.0	< 0.24	< 0.26	< 0.23	< 0.24	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.40	< 8.0	< 0.32	< 0.35	< 0.31	< 0.32	< 0.32
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	3	1.1	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-03-(245-277)	MP-03-(245-277)	MP-03-(280-300)	MP-03-(280-300)	MP-03-(280-300)	MP-03-(280-300)	MP-03-(280-300)
						Depth Interval	245 - 277 ft	245 - 277 ft	280 - 300 ft	280 - 300 ft	280 - 300 ft	280 - 300 ft	280 - 300 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-03-(245-277)-202308	MP-03-(245-277)-202311	MP-03-(280-300)-202201	MP-03-(280-300)-202204	MP-03-(280-300)-202207	MP-03-(280-300)-202210	MP-03-(280-300)-202306
						Sample Date	08/29/2023	11/07/2023	01/19/2022	04/12/2022	07/26/2022	10/11/2022	06/13/2023
						Sample Time	15:25	11:12	09:28	09:15	14:45	13:20	10:26
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.9	< 60	< 2.3	< 2.8	< 2.2	< 2.5	< 2.3
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.60	140	1.7 J	< 0.57	< 0.46	< 0.50	< 0.46
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.71	110	1.0 J	< 0.67	< 0.54	< 0.59	< 0.55
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.30	60	2.2	< 0.29	< 0.23	< 0.26	< 0.24
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 1.0	**70**	1.2 J	< 0.99	< 0.80	< 0.87	< 0.80
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.33	< 6.8	< 0.26	< 0.31	< 0.25	< 0.28	< 0.26
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.38	< 7.8	< 0.30	< 0.36	< 0.29	< 0.32	< 0.29
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 28	< 1.1	< 1.3	< 1.0	< 1.1	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.67	< 14	< 0.54	< 0.64	< 0.52	< 0.56	< 0.52
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.6	< 33	< 1.3	< 1.5	< 1.2	< 1.3	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.89	< 18	< 0.71	< 0.85	< 0.68	< 0.75	< 0.69
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.24	< 5.0	< 0.20	< 0.23	< 0.19	< 0.20	< 0.19
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.36	< 7.5	< 0.29	< 0.35	< 0.28	< 0.31	< 0.28
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.69	< 14	< 0.56	< 0.66	< 0.53	< 0.58	< 0.54
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.23	< 4.8	< 0.19	< 0.22	< 0.18	< 0.19	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.66	< 14	< 0.53	< 0.63	< 0.51	< 0.55	< 0.51
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.45	< 9.3	< 0.36	< 0.43	< 0.35	< 0.38	< 0.35
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.39	< 8.0	< 0.31	< 0.37	< 0.30	< 0.33	< 0.30
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.2	< 24	< 0.95	< 1.1	< 0.91	< 0.99	< 0.92
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.29	< 6.0	< 0.23	< 0.28	< 0.22	< 0.25	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 3.0	< 63	< 2.4	< 2.9	< 2.3	< 2.6	< 2.4
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.56	< 12	2.5	< 0.54	< 0.43	< 0.47	< 0.43
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.2	< 25	< 0.96	< 1.1	1.2 J	< 1.0	< 0.93
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.52	< 11	< 0.42	< 0.50	< 0.40	< 0.44	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 22	< 0.85	< 1.0	< 0.82	< 0.89	< 0.82
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.5	< 30	< 1.2	< 1.4	< 1.1	< 1.2	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.6	< 33	< 1.3	< 1.5	< 1.2	< 1.3	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.7	< 35	< 1.4	< 1.6	< 1.3	< 1.4	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.0	< 21	< 0.83	< 0.99	< 0.80	< 0.87	< 0.80
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.8	< 38	< 1.5	< 1.7	< 1.4	< 1.5	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.49	< 10	< 0.39	< 0.47	< 0.37	< 0.41	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.29	< 6.0	< 0.23	< 0.28	< 0.22	< 0.25	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.39	< 8.0	< 0.31	< 0.37	< 0.30	< 0.33	< 0.30
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	3	1.6	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-03-(280-300)	MP-03-(280-300)	MP-04-(048-077)	MP-04-(048-077)	MP-04-(048-077)	MP-04-(048-077)	MP-04-(048-077)
						Depth Interval	280 - 300 ft	280 - 300 ft	48 - 77 ft	48 - 77 ft	48 - 77 ft	48 - 77 ft	48 - 77 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-03-(280-300)-202308	MP-03-(280-300)-202311	MP-04-(048-077)-202201	MP-04-(048-077)-202204	MP-04-(048-077)-202207	MP-04-(048-077)-202210	MP-04-(048-077)-202306
						Sample Date	08/29/2023	11/07/2023	01/18/2022	04/11/2022	07/26/2022	10/11/2022	06/12/2023
						Sample Time	15:15	11:00	16:05	16:10	10:30	12:05	16:26
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 3.0	< 2.6	8.1	8.8	11	13	4.2 J
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.60	< 0.54	27	26	55	59	4.8
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.72	< 0.64	21	19	30	32	2.7
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.31	< 0.27	5.9	5.9	6.0	6.6	0.62 J
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 1.0	< 0.93	*7.0*	*7.5*	*5.0*	*4.8*	< 1.0
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.33	< 0.30	< 0.28	< 0.54	< 0.26	< 0.35	< 0.32
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.38	< 0.34	< 0.32	< 0.62	< 0.30	< 0.40	< 0.37
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.4	< 1.2	< 1.1	< 2.2	< 1.1	< 1.4	< 1.3
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.68	< 0.60	< 0.57	< 1.1	< 0.53	< 0.70	< 0.66
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.6	< 1.4	< 1.3	< 2.6	< 1.3	< 1.7	< 1.6
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.90	< 0.80	< 0.75	< 1.5	< 0.70	< 0.93	< 0.87
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.25	< 0.22	< 0.21	< 0.40	0.74 J	0.79 J	0.61 JI
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.37	< 0.33	< 0.31	< 0.60	< 0.29	< 0.38	< 0.36
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.70	< 0.63	< 0.59	< 1.1	< 0.55	< 0.73	< 0.68
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.23	< 0.21	< 0.20	< 0.38	< 0.18	< 0.24	< 0.23
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.67	< 0.59	< 0.56	< 1.1	< 0.52	< 0.69	< 0.64
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.46	< 0.41	< 0.38	< 0.74	< 0.36	< 0.47	< 0.44
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.39	< 0.35	< 0.33	< 0.64	< 0.31	< 0.41	< 0.38
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.2	< 1.1	< 1.0	< 1.9	< 0.93	< 1.2	< 1.2
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.30	< 0.26	1.4 J	1.5	0.58 J	0.37 J	< 0.29
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 3.1	< 2.7	150	150	5.4	19	< 3.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.57	< 0.50	2.7	1.9	0.97 J	0.71 J	< 0.55
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.2	< 1.1	< 1.0	< 1.9	< 0.94	< 1.3	< 1.2
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.53	< 0.47	< 0.44	< 0.85	< 0.41	< 0.55	< 0.51
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 0.95	< 0.90	< 1.7	< 0.84	< 1.1	< 1.0
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.5	< 1.3	< 1.2	< 2.4	< 1.2	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.6	< 1.4	< 1.3	< 2.6	< 1.3	< 1.7	< 1.6
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.7	< 1.5	< 1.4	< 2.8	< 1.3	< 1.8	< 1.7
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.0	< 0.93	< 0.88	< 1.7	< 0.82	< 1.1	< 1.0
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.9	< 1.6	< 1.5	< 3.0	< 1.4	< 1.9	< 1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.49	< 0.44	< 0.41	< 0.79	< 0.39	< 0.51	< 0.48
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.30	< 0.26	< 0.25	< 0.48	< 0.23	< 0.31	< 0.29
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.39	< 0.35	< 0.33	< 0.64	< 0.31	< 0.41	< 0.38
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	2	1.4	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-04-(048-077)	MP-04-(048-077)	MP-04-(080-112)	MP-04-(080-112)	MP-04-(080-112)	MP-04-(080-112)	MP-04-(080-112)
						Depth Interval	48 - 77 ft	48 - 77 ft	80 - 112 ft	80 - 112 ft	80 - 112 ft	80 - 112 ft	80 - 112 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-04-(048-077)-202308	MP-04-(048-077)-202311	MP-04-(080-112)-202201	MP-04-(080-112)-202204	MP-04-(080-112)-202207	MP-04-(080-112)-202210	MP-04-(080-112)-202306
						Sample Date	08/28/2023	11/06/2023	01/18/2022	04/11/2022	07/26/2022	10/11/2022	06/12/2023
						Sample Time	16:15	15:45	15:49	17:35	14:00	11:50	16:16
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 7.9	6.5	29	49	110	140	160
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	8.5	10	120	210	740	910	820
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	5.4	5.2	92	170	350	490	490
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	1.2	< 0.32	23	39	77	87	130
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	*2.8*	< 1.1	**33**	**62**	**93**	**130**	**200**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.89	< 0.35	1.3 J	2.2	*3.1*	*3.9*	*7.5*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 1.0	< 0.40	< 0.32	< 0.29	< 0.40	< 0.35	< 0.34
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 3.6	< 1.4	< 1.1	< 1.0	< 1.4	< 1.2	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 1.8	< 0.71	< 0.57	< 0.52	< 0.70	< 0.61	< 0.60
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 4.3	< 1.7	< 1.3	< 1.2	< 1.7	< 1.5	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 2.4	< 0.95	< 0.76	< 0.69	< 0.93	< 0.81	< 0.79
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.66	< 0.26	0.34 J	0.38	0.54 J	0.72 J	0.60 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.99	< 0.39	< 0.31	< 0.28	< 0.38	0.38 J	< 0.33
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 1.9	< 0.74	0.86 J	1.1	1.7 J	1.9 J	2.3
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.63	< 0.25	< 0.20	< 0.18	< 0.24	< 0.21	< 0.21
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 1.8	< 0.70	< 0.56	0.88	1.1 J	< 0.60	*2.2*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 1.2	< 0.48	< 0.38	< 0.35	< 0.47	< 0.41	< 0.40
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 1.1	< 0.42	< 0.33	< 0.30	< 0.41	< 0.36	< 0.35
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 3.2	< 1.3	< 1.0	< 0.91	< 1.2	< 1.1	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.79	< 0.31	7.8	15	20	28	26
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 8.2	< 3.2	750	1300	1100	1400	1900
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 1.5	< 0.60	8.1	11	7.0	12	23
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 3.2	< 1.3	< 1.0	< 0.92	< 1.3	< 1.1	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 1.4	< 0.56	< 0.45	< 0.40	< 0.55	< 0.48	< 0.47
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 2.9	< 1.1	< 0.90	< 0.82	< 1.1	< 0.97	< 0.95
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 4.0	< 1.6	< 1.2	< 1.1	< 1.5	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 4.3	< 1.7	< 1.3	< 1.2	< 1.7	< 1.5	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 4.6	< 1.8	< 1.5	< 1.3	< 1.8	< 1.6	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 2.8	< 1.1	< 0.88	< 0.80	< 1.1	< 0.95	< 0.92
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 4.9	< 1.9	< 1.6	< 1.4	< 1.9	< 1.7	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 1.3	< 0.52	< 0.41	< 0.38	< 0.51	< 0.45	< 0.43
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.79	< 0.31	< 0.25	< 0.23	< 0.31	< 0.27	< 0.26
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 1.1	< 0.42	< 0.33	< 0.30	< 0.41	< 0.36	< 0.35
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	None	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	1	2.8	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
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umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater						
						Location ID	MP-04-(080-112)	MP-04-(080-112)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)
						Depth Interval	80 - 112 ft	80 - 112 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft
						Sample Type Code	N	N	N	N	FD	N	FD	N
						Sample Name	MP-04-(080-112)-202308	MP-04-(080-112)-202311	MP-04-(115-152)-202201	MP-04-(115-152)-202204	DUP-02-202204	MP-04-(115-152)-202207	DUP-02-202207	MP-04-(115-152)-202210
						Sample Date	08/28/2023	11/06/2023	01/18/2022	04/11/2022	04/11/2022	07/26/2022	07/26/2022	10/11/2022
						Sample Time	16:00	15:30	15:23	17:15	00:00	13:45	00:00	11:35
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		130	120	150	180	170	190	190	220
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		860	650	610	860	750	960	920	1100
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		390	430	500	680	660	690	690	770
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		130	140	130	160	140	170	170	210
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		**140**	**150**	**160**	**210**	**200**	**240**	**250**	**320**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		*7.0*	*10*	*8.5*	*12*	*11*	*11*	*14*	*16*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.35	< 0.33	< 0.32	0.83	0.81	0.69 J	0.99 J	1.1 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.2	< 1.2	< 1.1	< 1.1	< 1.0	< 1.1	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.62	< 0.59	< 0.56	< 0.53	< 0.52	< 0.56	< 0.53	< 0.58
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.5	< 1.4	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.82	< 0.78	< 0.75	< 0.70	< 0.69	< 0.74	< 0.70	< 0.77
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		0.67	< 0.21	0.62 J	0.80	0.70	1.0 J	0.96 J	1.2 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.34	< 0.32	0.56 J	0.78	0.66	0.74 J	0.84 J	1.1 J
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		2.2	1.9 J	3.5	*4.3*	3.9	*4.4*	*4.8*	*4.8*
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.21	< 0.20	< 0.19	< 0.18	< 0.18	< 0.19	< 0.18	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		1.9	*2.3*	*2.9*	*4.8*	*4.5*	*3.5*	*4.7*	*5.4*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.42	< 0.40	< 0.38	< 0.36	< 0.35	< 0.38	< 0.35	< 0.39
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.36	< 0.34	< 0.33	< 0.31	< 0.30	< 0.33	< 0.31	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 1.1	< 1.0	< 1.0	< 0.94	< 0.91	< 0.99	< 0.93	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		25	22	36	55	51	60	61	67
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		1900	1700	3400	3900	3500	3700	3900	4000
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		16	21	110	130	130	130	180	250
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 1.1	< 1.1	< 1.0	1.2	< 0.92	< 1.0	< 0.94	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.48	< 0.46	< 0.44	< 0.41	< 0.41	< 0.44	< 0.41	< 0.45
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.98	< 0.93	< 0.89	< 0.84	< 0.82	< 0.88	< 0.83	< 0.92
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.3	< 1.3	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.5	< 1.4	< 1.3	< 1.3	< 1.2	< 1.3	< 1.2	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.6	< 1.5	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.96	< 0.91	< 0.87	< 0.82	< 0.80	< 0.86	< 0.81	< 0.90
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.7	< 1.6	< 1.5	< 1.4	< 1.4	< 1.5	< 1.4	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.45	< 0.43	< 0.41	< 0.39	< 0.38	< 0.41	< 0.38	< 0.42
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.27	< 0.26	< 0.25	< 0.23	< 0.23	< 0.24	< 0.23	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.36	< 0.34	< 0.33	< 0.31	< 0.30	< 0.33	< 0.31	< 0.34
Combined Standard														
Color, Field	Color-F	Field	none	-	-		NA	NA	None	none	NA	none	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		NA	NA	None	none	NA	none	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		NA	NA	None	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-		NA	NA	NA	3	NA	7.5	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater							
						Location ID	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(115-152)	MP-04-(155-192)
						Depth Interval	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft	155 - 192 ft	155 - 192 ft
						Sample Type Code	FD	N	FD	N	FD	N	FD	FD	N
						Sample Name	DUP-02-202210	MP-04-(115-152)-202306	DUP-04-202306	MP-04-(115-152)-202308	DUP-03-202308	MP-04-(115-152)-202311	DUP-04-202311	DUP-01-202201	MP-04-(155-192)-202201
						Sample Date	10/11/2022	06/12/2023	06/12/2023	08/28/2023	08/29/2023	11/06/2023	11/06/2023	01/18/2022	01/18/2022
						Sample Time	00:00	16:05	00:00	15:45	00:00	15:15	00:00	00:00	15:07
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	220	190	200	150	170	130	150	150	15
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	1100	860	840	840	870	870	840	600	55
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	760	670	630	400 J	620 J	570	560	500	42
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	200	180	190	160	180	170	150	130	15
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**350**	**300**	**280**	**230**	**260**	**260**	**250**	**170**	*15*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	*20*	*15*	*16*	*14*	*16*	*16*	*13*	*8.5*	0.91 J
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	1.5 J	1.7 J	1.8 J	1.4	1.6	1.6 J	1.3 J	< 0.32	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.56	< 0.56	< 0.56	< 0.55	< 0.59	< 0.56	< 0.57	< 0.56	< 0.55
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.74	< 0.74	< 0.74	< 0.74	< 0.78	< 0.75	< 0.76	< 0.75	< 0.73
Sulfonic Acids															
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	1.1 J	0.79 J	0.75 J	0.69	0.66	0.25 J	0.71 J	0.70 J	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	0.90 J	0.62 J	0.54 J	0.48	0.55	0.60 J	0.52 J	0.61 J	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	*5.3*	3.7	*4.0*	3.2	3.6	3.3	3.3	3.1	< 0.57
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	0.55 J	< 0.20	< 0.19	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	*7.4*	*6.0 J*	*2.6 J*	*4.6*	*6.1*	*5.2*	*4.3*	*3.1*	< 0.54
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.38	< 0.37	< 0.38	< 0.37	< 0.40	< 0.38	< 0.38	< 0.38	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.33	< 0.32	< 0.32	< 0.32	< 0.34	< 0.33	< 0.33	< 0.33	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.99	< 0.98	< 0.98	< 0.98	< 1.0	< 0.99	< 1.0	< 0.99	< 0.97
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	70	46	41	42	42	44	39	39	2.2
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	4700	3600	3600	3300	4100	3800	3300	2800	290
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	360 J	260	250	180 J	260 J	220	170	120	15
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols															
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	1.4 J	*2.1*	< 0.99 UJ	*4.4 J*	< 1.0	< 1.0	< 1.0	< 0.98
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.44	< 0.43	< 0.44	< 0.43	< 0.46	< 0.44	< 0.45	< 0.44	< 0.43
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.89	< 0.88	< 0.88	< 0.88	< 0.94	< 0.89	< 0.90	< 0.89	< 0.87
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.87	< 0.86	< 0.86	< 0.86	< 0.91	< 0.87	< 0.88	< 0.87	< 0.85
Replacement Chemicals															
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.6	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.41	< 0.40	< 0.41	< 0.40	< 0.43	< 0.41	< 0.42	< 0.41	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24 UJ	< 0.24	< 0.24	< 0.24	< 0.26	< 0.25	< 0.25	< 0.25	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.33	< 0.32	< 0.32	< 0.32	< 0.34	< 0.33	< 0.33	< 0.33	< 0.32
Combined Standard															
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	None
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	None
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-04-(155-192)	MP-04-(155-192)	MP-04-(155-192)	MP-04-(155-192)	MP-04-(155-192)	MP-04-(155-192)	MP-04-(195-217)
						Depth Interval	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	195 - 217 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-04-(155-192)-202204	MP-04-(155-192)-202207	MP-04-(155-192)-202210	MP-04-(155-192)-202306	MP-04-(155-192)-202308	MP-04-(155-192)-202311	MP-04-(195-217)-202201
						Sample Date	04/11/2022	07/26/2022	10/11/2022	06/12/2023	08/28/2023	11/06/2023	01/18/2022
						Sample Time	17:00	13:20	11:20	15:48	15:30	15:00	14:39
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	24	26	33	30	33	33	14
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	96	110	150	140	150	150	61
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	66	77	100	95	120	110	49
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	22	26	31	30	35	33	12
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**22**	**26**	**34**	**38**	**48**	**39**	*19*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	1.5	1.5 J	1.8 J	2.0	2.8	1.8 J	0.67 J
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.30	< 0.31	< 0.33	< 0.31	< 0.32	< 0.31	< 0.32
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.0	< 1.1	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.52	< 0.55	< 0.59	< 0.55	< 0.57	< 0.56	< 0.57
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.70	< 0.73	< 0.79	< 0.73	< 0.75	< 0.74	< 0.75
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.19	< 0.20	< 0.22	< 0.20	< 0.21	< 0.20	< 0.21
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.29	< 0.30	< 0.32	< 0.30	< 0.31	< 0.30	< 0.31
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.54	0.60 J	0.69 J	0.68 J	0.80	0.68 J	< 0.59
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.19	< 0.21	0.21 J	< 0.20	< 0.19	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.51	< 0.54	< 0.58	0.71 J	1.1	0.89 J	< 0.56
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.35	< 0.37	< 0.40	< 0.37	< 0.38	< 0.37	< 0.38
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.30	< 0.32	< 0.35	< 0.32	< 0.32	< 0.32	< 0.33
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.92	< 0.97	< 1.0	< 0.97	< 1.0	< 0.98	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	2.4	4.0	6.0	5.5	6.3	5.9	5.2
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	350	430	690 J	640	870	730	410
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	26	21	27	26	41	27 J	4.9
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.93	< 0.98	< 1.1	< 0.98	< 1.0	< 0.99	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.41	< 0.43	< 0.46	< 0.43	< 0.44	< 0.44	< 0.44
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.83	< 0.87	< 0.94	< 0.87	< 0.89	< 0.88	< 0.90
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.81	< 0.85	< 0.92	< 0.85	< 0.87	< 0.86	< 0.88
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.4	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.38	< 0.40	< 0.43	< 0.40	< 0.41	< 0.41	< 0.41
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.23	< 0.24	< 0.26	< 0.24	< 0.25	< 0.24	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.30	< 0.32	< 0.35	< 0.32	< 0.33	< 0.32	< 0.33
Combined Standard												
Color, Field	Color-F	Field	none	-	-	faint yellow	none	NA	NA	NA	NA	None
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	sulfur	none	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	None
Turbidity, Field	Turb-F	Field	ntu	-	-	6	1.3	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		**Groundwater**							
				Location ID		MP-04-(195-217)	MP-04-(195-217)	MP-04-(195-217)	MP-04-(195-217)	MP-04-(195-217)	MP-04-(195-217)	MP-04-(220-242)
				Depth Interval		195 - 217 ft	195 - 217 ft	195 - 217 ft	195 - 217 ft	195 - 217 ft	195 - 217 ft	220 - 242 ft
				Sample Type Code		N	N	N	N	N	N	N
				Sample Name		MP-04-(195-217)-202204	MP-04-(195-217)-202207	MP-04-(195-217)-202210	MP-04-(195-217)-202306	MP-04-(195-217)-202308	MP-04-(195-217)-202311	MP-04-(220-242)-202201
				Sample Date		04/11/2022	07/26/2022	10/11/2022	06/12/2023	08/28/2023	11/06/2023	01/18/2022
				Sample Time		16:25	13:10	11:05	15:42	15:10	14:45	14:15
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	9.9	3.7 J	< 2.4	< 2.6	< 2.4	< 2.6	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	41	16	5.4	< 0.52	< 0.48	< 0.52	3.2
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	32	12	3.8	< 0.62	< 0.57 UJ	< 0.62	3.1
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	8.0	3.1	1.0 J	< 0.27	< 0.25	< 0.27	0.69 J
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	*13*	*5.0*	*2.0*	< 0.91	0.95	< 0.91	1.7 J
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	0.52	< 0.29	< 0.27	< 0.29	< 0.27	< 0.29	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.31	< 0.33	< 0.31	< 0.33	< 0.31	< 0.33	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.54	< 0.59	< 0.54	< 0.59	< 0.54	< 0.59	< 0.56
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.72	< 0.79	< 0.72	< 0.78	< 0.72	< 0.78	< 0.74
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.22	< 0.20	< 0.21	< 0.20	< 0.21	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.32	< 0.30	< 0.32	< 0.30	< 0.32	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.56	< 0.61	< 0.56	< 0.61	< 0.56	< 0.61	< 0.58
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.20	< 0.19	< 0.20	< 0.19	< 0.20	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.53	< 0.58	< 0.53	< 0.58	< 0.53	< 0.58	< 0.55
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.37	< 0.40	< 0.37	< 0.39	< 0.36	< 0.39	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.34	< 0.32	< 0.34	< 0.32	< 0.34	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.96	< 1.0	< 0.96	< 1.0	< 0.96	< 1.0	< 0.98
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	3.4	1.3 J	0.36 J	< 0.26	< 0.24	< 0.26	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	330	120	44	< 2.7	< 2.5	< 2.7	27
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	3.3	1.3 J	< 0.46	< 0.49	< 0.45	< 0.49	1.9 J
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.97	< 1.1	< 0.97	< 1.0	< 0.97	< 1.0	< 0.99
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.43	< 0.46	< 0.43	< 0.46	< 0.42	< 0.46	< 0.43
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.86	< 0.94	< 0.86	< 0.93	< 0.86	< 0.93	< 0.88
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3	< 1.4	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.84	< 0.91	< 0.84	< 0.91	< 0.84	< 0.91	< 0.86
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.6	< 1.5	< 1.6	< 1.5	< 1.6	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.40	< 0.43	< 0.40	< 0.43	< 0.39	< 0.43	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.26	< 0.24	< 0.26	< 0.24	< 0.26	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.34	< 0.32	< 0.34	< 0.32	< 0.34	< 0.32
Combined Standard												
Color, Field	Color-F	Field	none	-	-	none	none	NA	NA	NA	NA	None
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	sulfur	none	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	None
Turbidity, Field	Turb-F	Field	ntu	-	-	6	2.3	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-04-(220-242)	MP-04-(220-242)	MP-04-(220-242)	MP-04-(220-242)	MP-04-(220-242)	MP-04-(220-242)	MP-04-(245-272)
						Depth Interval	220 - 242 ft	220 - 242 ft	220 - 242 ft	220 - 242 ft	220 - 242 ft	220 - 242 ft	245 - 272 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-04-(220-242)-202204	MP-04-(220-242)-202207	MP-04-(220-242)-202210	MP-04-(220-242)-202306	MP-04-(220-242)-202308	MP-04-(220-242)-202311	MP-04-(245-272)-202201
						Sample Date	04/11/2022	07/26/2022	10/11/2022	06/12/2023	08/28/2023	11/06/2023	01/18/2022
						Sample Time	16:05	12:55	10:50	15:28	14:55	14:35	13:41
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.4	< 2.4	< 2.8	< 2.4	< 2.4	< 2.7	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.48	< 0.48	< 0.57	< 0.48	< 0.50	< 0.55	< 0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.57	< 0.57	< 0.68	< 0.57	< 0.59 UJ	< 0.65	< 0.58
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.29	< 0.25	< 0.25	< 0.28	< 0.25
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.83	< 0.84	< 0.99	< 0.84	0.91	< 0.95	< 0.85
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.26	< 0.27	< 0.31	< 0.27	< 0.27	< 0.30	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.30	< 0.31	< 0.36	< 0.31	< 0.32	< 0.35	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.3	< 1.1	< 1.1	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.54	< 0.54	< 0.64	< 0.54	< 0.56	< 0.61	< 0.55
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3	< 1.5	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.71	< 0.72	< 0.85	< 0.72	< 0.74	< 0.82	< 0.73
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.20	0.24 J	< 0.20	< 0.20	< 0.22	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.29	< 0.30	< 0.35	< 0.30	< 0.31	< 0.34	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.56	< 0.56	< 0.66	< 0.56	< 0.58	< 0.64	< 0.57
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.19	< 0.22	< 0.19	< 0.19	< 0.21	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.53	< 0.53	< 0.63	< 0.53	< 0.55	< 0.60	< 0.54
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.36	< 0.36	< 0.43	< 0.37	< 0.38	< 0.41	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.31	< 0.32	< 0.37	< 0.32	< 0.33	< 0.36	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.95	< 0.96	< 1.1	< 0.96	< 0.99	< 1.1	< 0.97
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.24	< 0.24	< 0.28	< 0.24	< 0.24	< 0.27	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.4	< 2.5	< 2.9	< 2.5	< 2.5	< 2.8	< 2.5
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.45	< 0.45	< 0.54	< 0.45	< 0.47	< 0.51	< 0.46
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.96	< 0.96	< 1.1	< 0.97	< 1.0	< 1.1	< 0.98
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.42	< 0.42	< 0.50	< 0.42	< 0.44	< 0.48	< 0.43
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.85	< 0.86	< 1.0	< 0.86	< 0.89	< 0.97	< 0.87
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.4	< 1.2	< 1.2	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3	< 1.5	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.6	< 1.4	< 1.4	< 1.6	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.83	< 0.84	< 0.99	< 0.84	< 0.86	< 0.95	< 0.85
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.7	< 1.5	< 1.5	< 1.7	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.39	< 0.39	< 0.47	< 0.40	< 0.41	< 0.45	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.24	< 0.28	< 0.24	< 0.24	< 0.27	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.31	< 0.32	< 0.37	< 0.32	< 0.33	< 0.36	< 0.32
Combined Standard													
Color, Field	Color-F	Field	none	-	-	none	none	NA	NA	NA	NA	None
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	none	none	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	None
Turbidity, Field	Turb-F	Field	ntu	-	-	2	7.8	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-04-(245-272)	MP-04-(245-272)	MP-04-(245-272)	MP-04-(245-272)	MP-04-(245-272)	MP-04-(245-272)	MP-04-(275-291)
						Depth Interval	245 - 272 ft	245 - 272 ft	245 - 272 ft	245 - 272 ft	245 - 272 ft	245 - 272 ft	275 - 291 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-04-(245-272)-202204	MP-04-(245-272)-202207	MP-04-(245-272)-202210	MP-04-(245-272)-202306	MP-04-(245-272)-202308	MP-04-(245-272)-202311	MP-04-(275-291)-202201
						Sample Date	04/11/2022	07/26/2022	10/11/2022	06/12/2023	08/28/2023	11/06/2023	01/18/2022
						Sample Time	15:45	12:35	10:35	15:17	14:50	14:20	12:05
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.4	< 2.5	< 2.5	< 2.4	< 3.0	< 2.6	< 2.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.49	< 0.52	< 0.51	< 0.48	< 0.61	< 0.54	0.68 J
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.58	< 0.62	< 0.60	< 0.57	< 0.72 UJ	< 0.64	0.67 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.25	< 0.27	< 0.26	< 0.25	< 0.31	< 0.27	< 0.26
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.86	< 0.90	< 0.88	< 0.84	1.1	< 0.93	< 0.87
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.27	< 0.29	< 0.28	< 0.27	< 0.33	< 0.30	< 0.28
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.31	< 0.33	< 0.32	< 0.31	< 0.38	< 0.34	< 0.32
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.2	< 1.1	< 1.1	< 1.4	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.55	< 0.58	< 0.57	< 0.54	< 0.68	< 0.60	< 0.57
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.4	< 1.3	< 1.3	< 1.6	< 1.4	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.74	< 0.77	< 0.75	< 0.72	< 0.90	< 0.80	< 0.75
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.21	< 0.21	< 0.20	< 0.25	< 0.22	< 0.21
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.32	< 0.31	< 0.30	< 0.37	< 0.33	< 0.31
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.57	< 0.60	< 0.59	< 0.56	< 0.71	< 0.63	< 0.59
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.20	< 0.20	< 0.19	< 0.24	< 0.21	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.54	< 0.57	< 0.56	< 0.53	< 0.67	< 0.59	< 0.56
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.37	< 0.39	< 0.38	< 0.37	< 0.46	< 0.41	< 0.38
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.34	< 0.33	< 0.32	< 0.40	< 0.35	< 0.33
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.98	< 1.0	< 1.0	< 0.96	< 1.2	< 1.1	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.25	< 0.24	< 0.30	< 0.26	< 0.25
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.5	< 2.7	< 2.6	< 2.5	< 3.1	< 2.7	2.6 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.46	< 0.49	< 0.47	< 0.46	< 0.57	< 0.51	< 0.47
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.99	< 1.0	< 1.0	< 0.97	< 1.2	< 1.1	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.43	< 0.46	< 0.44	< 0.43	< 0.53	< 0.47	< 0.44
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.88	< 0.92	< 0.90	< 0.86	< 1.1	< 0.96	< 0.90
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.3	< 1.2	< 1.2	< 1.5	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.4	< 1.3	< 1.3	< 1.6	< 1.4	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.5	< 1.4	< 1.4	< 1.7	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.86	< 0.90	< 0.88	< 0.84	< 1.1	< 0.93	< 0.87
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.6	< 1.5	< 1.5	< 1.9	< 1.6	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.40	< 0.42	< 0.41	< 0.40	< 0.50	< 0.44	< 0.41
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.25	< 0.24	< 0.30	< 0.26	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.34	< 0.33	< 0.32	< 0.40	< 0.35	< 0.33
Combined Standard													
Color, Field	Color-F	Field	none	-	-	none	none	NA	NA	NA	NA	Brown
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	sulfur	none	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	SLIGHT
Turbidity, Field	Turb-F	Field	ntu	-	-	6	3	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-04-(275-291)	MP-04-(275-291)	MP-04-(275-291)	MP-04-(275-291)	MP-04-(275-291)	MP-04-(275-291)	MP-05-(SWL-065)
						Depth Interval	275 - 291 ft	275 - 291 ft	275 - 291 ft	275 - 291 ft	275 - 291 ft	275 - 291 ft	0 - 65 ft
						Sample Type Code	N	N	N	N	N	N	N
						Sample Name	MP-04-(275-291)-202204	MP-04-(275-291)-202207	MP-04-(275-291)-202210	MP-04-(275-291)-202306	MP-04-(275-291)-202308	MP-04-(275-291)-202311	MP-05-(SWL-065)-202201
						Sample Date	04/11/2022	07/26/2022	10/11/2022	06/12/2023	08/28/2023	11/06/2023	01/24/2022
						Sample Time	15:20	12:10	10:20	14:56	14:40	14:00	13:50
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.3	< 2.5	< 2.3	< 2.3	< 2.9	< 2.4	150
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	0.50	< 0.50	< 0.48	< 0.48	< 0.59	< 0.49	450
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.57	< 0.59	< 0.57	< 0.57	0.79	< 0.58	400
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	0.24	< 0.26	< 0.24	< 0.24	< 0.30	< 0.25	110
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.83	< 0.87	< 0.83	< 0.83	< 1.0	< 0.84	**96**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.26	< 0.28	< 0.26	< 0.26	< 0.32	< 0.27	*3.8*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.30	< 0.32	< 0.30	< 0.30	< 0.37	< 0.31	< 0.37
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.1	< 1.1	< 1.3	< 1.1	< 1.3
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.54	< 0.56	< 0.54	< 0.54	< 0.66	< 0.55	< 0.65
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.3	< 1.3	< 1.6	< 1.3	< 1.5
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.71	< 0.75	< 0.71	< 0.71	< 0.88	< 0.73	< 0.86
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.20	< 0.20	< 0.20	< 0.24	< 0.20	8.2
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.29	< 0.31	< 0.29	< 0.29	< 0.36	< 0.30	0.82 J
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.56	< 0.58	< 0.56	< 0.56	< 0.68	< 0.57	*4.0*
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.19	< 0.19	< 0.19	< 0.23	< 0.19	< 0.23
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.53	< 0.55	< 0.53	< 0.53	< 0.65	< 0.54	1.8 J
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.36	< 0.38	< 0.36	< 0.36	< 0.44	< 0.37	< 0.44
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.31	< 0.33	< 0.31	< 0.31	< 0.38	< 0.32	< 0.38
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.95	< 0.99	< 0.95	< 0.95	< 1.2	< 0.96	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.23	< 0.25	< 0.23	< 0.23	< 0.29	< 0.24	34
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.4	< 2.6	< 2.4	< 2.4	< 3.0	< 2.5	1700 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.45	< 0.47	< 0.45	< 0.45	< 0.55	< 0.46	24
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.96	< 1.0	< 0.96	< 0.96	< 1.2	< 0.97	< 1.2
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.42	< 0.44	< 0.42	< 0.42	< 0.52	< 0.43	< 0.51
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.85	< 0.89	< 0.85	< 0.85	< 1.0	< 0.86	< 1.0
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4	< 1.2	< 1.4
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.6	< 1.3	< 1.5
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.4	< 1.4	< 1.7	< 1.4	< 1.7
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.83	< 0.87	< 0.83	< 0.83	< 1.0	< 0.84	< 1.0
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.5	< 1.5	< 1.8	< 1.5	< 1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.39	< 0.41	< 0.39	< 0.39	< 0.48	< 0.40	< 0.47
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.23	< 0.25	< 0.23	< 0.23	< 0.29	< 0.24	< 0.28
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.31	< 0.33	< 0.31	< 0.31	< 0.38	< 0.32	< 0.38
Combined Standard													
Color, Field	Color-F	Field	none	-	-	none	none	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	sulfur	none	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	4	5	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

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Italics = detection equals or exceeds NR 140 PAL

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ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater						
						Location ID	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)
						Depth Interval	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft
						Sample Type Code	FD	N	FD	N	FD	N	FD	N
						Sample Name	DUP-06-202201	MP-05-(SWL-065)-202204	DUP-01-202204	MP-05-(SWL-065)-202207	DUP-01-202207	MP-05-(SWL-065)-202210	DUP-01-202210	MP-05-(SWL-065)-202306
						Sample Date	01/24/2022	04/11/2022	04/11/2022	07/26/2022	07/26/2022	10/11/2022	10/11/2022	06/12/2023
						Sample Time	00:00	13:30	00:00	11:08	00:00	09:10	00:00	14:03
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		150	24	22	19	19	24	23	24
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		570	55	54	46	46	63	66	54
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		420	34	31	28	29	31	34	33
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		110	25	24	15	15	24	24	14
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		**98**	**21**	**20**	*9.4*	*9.4*	*12*	*13*	*9.8*
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		*4.9*	0.74	0.72	0.34 J	0.49 J	< 0.32	< 0.30	1.2 J
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.36	< 0.29	< 0.29	< 0.29	< 0.40	< 0.37	< 0.34	< 0.33
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.3	< 1.0	< 1.0	< 1.0	< 1.4	< 1.3	< 1.2	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.63	< 0.52	< 0.51	< 0.51	< 0.71	< 0.65	< 0.60	< 0.59
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.5	< 1.2	< 1.2	< 1.2	< 1.7	< 1.5	< 1.4	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.84	< 0.68	< 0.67	< 0.68	< 0.95	< 0.86	< 0.80	< 0.78
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		8.0	1.0	1.0	0.76 J	0.65 J	0.91 J	0.96 J	0.93 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.34	< 0.28	< 0.28	< 0.28	< 0.39	< 0.35	< 0.33	< 0.32
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		*4.4*	< 0.53	< 0.53	< 0.53	< 0.74	< 0.67	< 0.63	< 0.61
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.22	< 0.18	< 0.18	< 0.18	< 0.25	< 0.22	< 0.21	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		*2.2 J*	0.52	< 0.50	< 0.51	< 0.70	< 0.64	< 0.59	< 0.58
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.43	< 0.35	< 0.34	< 0.35	< 0.48	< 0.44	< 0.41	< 0.40
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.37	< 0.30	< 0.30	< 0.30	< 0.41	< 0.38	< 0.35	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 1.1	< 0.91	< 0.89	< 0.91	< 1.3	< 1.1	< 1.1	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		39	0.54	0.48	< 0.22	< 0.31	< 0.28	< 0.26	< 0.26
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		1700 J	7.0	4.3	< 2.3	< 3.2	< 2.9	< 2.7	< 2.7
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		33	< 0.43	< 0.42	< 0.43	< 0.60	< 0.54	< 0.51	< 0.49
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 1.1	< 0.92	< 0.90	< 0.92	< 1.3	< 1.2	< 1.1	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.49	< 0.40	< 0.40	< 0.40	< 0.56	< 0.51	< 0.47	< 0.46
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 1.0	< 0.81	< 0.80	< 0.81	< 1.1	< 1.0	< 0.96	< 0.94
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.4	< 1.1 UJ	< 1.1	< 1.1	< 1.6	< 1.4	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.5	< 1.2	< 1.2	< 1.2	< 1.7	< 1.5	< 1.4	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.6	< 1.3	< 1.3	< 1.3	< 1.8	< 1.7	< 1.5	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.98	< 0.80	< 0.78	< 0.80	< 1.1	< 1.0	< 0.93	< 0.91
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.7	< 1.4	< 1.4	< 1.4	< 1.9	< 1.8	< 1.6	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.46	< 0.37	< 0.37	< 0.37	< 0.52	< 0.47	< 0.44	< 0.43
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.28	< 0.22	< 0.22	< 0.22	< 0.31	< 0.28	< 0.26	< 0.26
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.37	< 0.30	< 0.30	< 0.30	< 0.41	< 0.38	< 0.35	< 0.34
Combined Standard														
Color, Field	Color-F	Field	none	-	-		NA	medium brown	NA	brown	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		NA	none	NA	none	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-		NA	510	NA	164	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	Groundwater							
						Location ID	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-05-(SWL-065)	MP-06-(021-033)	MP-06-(021-033)	MP-06-(021-033)	MP-06-(021-033)
						Depth Interval	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft	0 - 65 ft	21 - 33 ft	21 - 33 ft	21 - 33 ft	21 - 33 ft
						Sample Type Code	FD	FD	N	FD	FD	N	FD	N	FD
						Sample Name	DUP-05-202306	DUP-04-202308	MP-05-(SWL-065)-202308	MP-05-(SWL-065)-202311	DUP-03-202311	MP-06-(21-33)-202306	DUP-06-202306	MP-06-(21-33)-202308	DUP-05-202308
						Sample Date	06/12/2023	08/28/2023	08/29/2023	11/06/2023	11/06/2023	06/13/2023	06/13/2023	08/29/2023	08/29/2023
						Sample Time	00:00	00:00	09:15	13:00	00:00	09:33	00:00	13:15	13:15
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**										
Carboxylic Acids															
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	22	20	18	16	15	26	25	46	47
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	52	44	42	29	31	100	99	170	160
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	37	30	29	19	20	71	80	130	110
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	14	16	17	17	18	66	71	110	95
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	*7.9*	*5.8*	*5.5*	*3.5*	*3.2*	**78**	**92**	**90**	**83**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	1.3 J	0.80	0.74	< 0.28	0.77 J	*14*	*12*	*7.8*	*6.9*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.31	< 0.31	< 0.36	< 0.32	< 0.43	0.65 J	0.60 J	0.61	0.48
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.3	< 1.1	< 1.5	< 1.2	< 1.0	< 1.8	< 1.3
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.55	< 0.55	< 0.64	< 0.57	< 0.77	< 0.62	< 0.52	< 0.92	< 0.67
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.5	< 1.4	< 1.8	< 1.5	< 1.2	< 2.2	< 1.6
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.73	< 0.73	< 0.85	< 0.76	< 1.0	< 0.82	< 0.70	< 1.2	< 0.89
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.82 J	0.84	0.81	0.49 J	0.94 J	0.26 J	0.29 J	0.60	0.58
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.30	< 0.35	< 0.31	< 0.42	< 0.34	< 0.29	< 0.50	< 0.37
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.57	< 0.57	< 0.67	< 0.59	< 0.80	< 0.64	< 0.54	< 0.95	< 0.70
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.19	< 0.22	< 0.20	< 0.27	< 0.21	< 0.18	< 0.32	< 0.23
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.54	< 0.54	< 0.63	< 0.56	< 0.75	0.67 J	< 0.52	< 0.90	< 0.66
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.37	< 0.37	< 0.43	< 0.38	< 0.52	< 0.42	< 0.35	< 0.62	< 0.45
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.32	< 0.37	< 0.33	< 0.45	< 0.36	< 0.31	< 0.53	< 0.39
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.97	< 0.97	< 1.1	< 1.0	< 1.4	< 1.1	< 0.93	< 1.6	< 1.2
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.24	< 0.24	< 0.28	< 0.25	< 0.33	< 0.27	< 0.23	< 0.40	< 0.29
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.5	< 2.5	< 2.9	< 2.6	< 3.5	5.4 J	4.7 J	< 4.2	< 3.1
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.46	0.48	< 0.54	< 0.48	< 0.64	2.8	1.2 J	1.6	1.2
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.98	< 0.98	< 1.1	< 1.0	< 1.4	< 1.1	< 0.93	< 1.6	< 1.2
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.43	< 0.43	< 0.50	< 0.45	< 0.60	< 0.48	< 0.41	< 0.72	< 0.53
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.87	< 0.87	< 1.0	< 0.90	< 1.2	< 0.98	< 0.83	< 1.4	< 1.1
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.4	< 1.2	< 1.7	< 1.3	< 1.1	< 2.0	< 1.5
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.5	< 1.4	< 1.8	< 1.5	< 1.2	< 2.2	< 1.6
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.6	< 1.5	< 2.0	< 1.6	< 1.3	< 2.3	< 1.7
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.85	< 0.85	< 0.99	< 0.88	< 1.2	< 0.95	< 0.81	< 1.4	< 1.0
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.8	< 1.6	< 2.1	< 1.7	< 1.4	< 2.5	< 1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.40	< 0.40	< 0.47	< 0.42	< 0.56	< 0.45	< 0.38	< 0.67	< 0.49
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.24	< 0.28	< 0.25	< 0.33	< 0.27	< 0.23	< 0.40	< 0.29
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.32	< 0.37	< 0.33	< 0.45	< 0.36	< 0.31	< 0.53	< 0.39
Combined Standard														
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

					Sample Type	Groundwater							
					Location ID	MP-06-(021-033)	MP-06-(021-033)	MP-06-(036-070)	MP-06-(036-070)	MP-06-(036-070)	MP-06-(073-110)	MP-06-(073-110)	MP-06-(073-110)
					Depth Interval	21 - 33 ft	21 - 33 ft	36 - 70 ft	36 - 70 ft	36 - 70 ft	73 - 110 ft	73 - 110 ft	73 - 110 ft
					Sample Type Code	FD	N	N	N	N	N	N	N
					Sample Name	DUP-05-202311	MP-06-(021-033)-202311	MP-06-(36-70)-202306	MP-06-(36-70)-202308	MP-06-(036-070)-202311	MP-06-(73-110)-202306	MP-06-(73-110)-202308	MP-06-(073-110)-202311
					Sample Date	11/06/2023	11/07/2023	06/13/2023	08/29/2023	11/07/2023	06/13/2023	08/29/2023	11/07/2023
					Sample Time	00:00	10:15	09:12	11:50	09:35	09:00	11:30	09:24
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**								
Carboxylic Acids													
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	160	160	12	7.2	5.2 J	< 2.6	< 2.6	< 2.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	710	750	45	19	12	1.4 J	0.87	0.86 J
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	470	480	28	15	7.2	< 0.64	1.1	< 0.61
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	340	340	27	14	6.8	0.49 J	0.28	0.30 J
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**250**	**260**	**35**	*16*	*8.6*	1.1 J	< 0.92	< 0.90
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	*7.2*	*8.4*	2.9	1.4	0.66 J	< 0.30	< 0.29	< 0.28
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	0.59 J	0.66 J	< 0.34	< 0.36	< 0.34	< 0.34	< 0.34	< 0.33
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.4	< 1.4	< 1.2	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.70	< 0.72	< 0.61	< 0.63	< 0.60	< 0.60	< 0.60	< 0.58
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.7	< 1.7	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.93	< 0.95	< 0.80	< 0.84	< 0.79	< 0.80	< 0.79	< 0.77
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	1.2 J	1.3 J	0.47 J	0.57	0.73 J	< 0.22	< 0.22	< 0.21
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.38	< 0.39	< 0.33	< 0.34	< 0.33	< 0.33	< 0.33	< 0.32
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	0.75 J	< 0.74	< 0.63	< 0.65	< 0.62	< 0.63	< 0.62	< 0.60
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.21	< 0.22	< 0.21	< 0.21	< 0.21	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.69	< 0.70	< 0.59	< 0.62	< 0.59	< 0.59	< 0.59	< 0.57
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.47	< 0.48	< 0.41	< 0.42	< 0.40	< 0.41	< 0.40	< 0.39
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.41	< 0.42	< 0.35	< 0.37	< 0.35	< 0.35	< 0.35	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.2	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.31	< 0.31	< 0.26	< 0.28	< 0.26	< 0.26	< 0.26	< 0.25
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 3.2	< 3.3	< 2.8	< 2.9	< 2.7	< 2.7	< 2.7	< 2.6
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	1.1 J	1.4 J	< 0.51	< 0.53	< 0.50	< 0.50	< 0.50	< 0.49
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.1	< 1.1	< 1.1	*2.8*	< 1.1	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.55	< 0.56	< 0.47	< 0.49	< 0.47	< 0.47	< 0.47	< 0.45
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 1.1	< 0.96	< 1.0	< 0.95	< 0.95	< 0.94	< 0.92
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.5	< 1.6	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.7	< 1.7	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.8	< 1.8	< 1.5	< 1.6	< 1.5	< 1.5	< 1.5	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.1	< 1.1	< 0.94	< 0.98	< 0.93	< 0.93	< 0.92	< 0.90
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.9	< 2.0	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.51	< 0.52	< 0.44	< 0.46	< 0.44	< 0.44	< 0.43	< 0.42
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.31	< 0.31	< 0.26	< 0.28	< 0.26	< 0.26	< 0.26	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.41	< 0.42	< 0.35	< 0.37	< 0.35	< 0.35	< 0.35	< 0.34
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater						
				Location ID		MP-06-(113-145)	MP-06-(113-145)	MP-06-(113-145)	MP-06-(148-178)	MP-06-(148-178)	MP-06-(148-178)	MP-07-(048-077)
				Depth Interval		113 - 145 ft	113 - 145 ft	113 - 145 ft	148 - 178 ft	148 - 178 ft	148 - 178 ft	48 - 77 ft
				Sample Type Code		N	N	N	N	N	N	N
				Sample Name		MP-06-(113-145)-202306	MP-06-(113-145)-202308	MP-06-(113-145)-202311	MP-06-(148-178)-202306	MP-06-(148-178)-202308	MP-06-(148-178)-202311	MP-07-(48-77)-202306
				Sample Date		06/13/2023	08/29/2023	11/07/2023	06/13/2023	08/29/2023	11/07/2023	06/12/2023
				Sample Time		08:43	10:55	08:44	08:29	10:45	08:25	13:20
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.5	< 2.6	< 2.6	< 2.4	< 2.7	< 2.6	< 2.9
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	0.64 J	< 0.54	< 0.53	< 0.48	< 0.55	2.4	< 0.58
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.61	0.86	< 0.63	< 0.57	0.65	1.5 J	< 0.69
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	0.50 J	< 0.27	< 0.27	< 0.25	< 0.28	0.49 J	< 0.30
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	1.1 J	< 0.93	< 0.93	< 0.84	< 0.95	1.5 J	< 1.0
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.28	< 0.30	< 0.29	< 0.27	< 0.30	< 0.29	< 0.32
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.33	< 0.34	< 0.34	< 0.31	< 0.35	< 0.33	< 0.37
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.3
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.58	< 0.60	< 0.60	< 0.54	< 0.62	< 0.59	< 0.66
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 1.5
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.77	< 0.80	< 0.80	< 0.72	< 0.82	< 0.79	< 0.87
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.21	< 0.22	< 0.22	< 0.20	< 0.22	< 0.22	7.5
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.32	< 0.33	< 0.33	< 0.30	< 0.34	< 0.32	< 0.36
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.60	< 0.63	< 0.62	< 0.56	< 0.64	< 0.61	< 0.68
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20	< 0.21	< 0.21	< 0.19	< 0.21	< 0.20	< 0.23
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.57	< 0.59	< 0.59	< 0.53	< 0.60	< 0.58	< 0.64
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39	< 0.41	< 0.40	< 0.37	< 0.41	< 0.40	< 0.44
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34	< 0.35	< 0.35	< 0.32	< 0.36	< 0.34	< 0.38
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0	< 1.1	< 1.1	< 0.96	< 1.1	< 1.0	< 1.2
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.25	< 0.26	< 0.26	< 0.24	< 0.27	< 0.26	< 0.29
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.6	< 2.7	< 2.7	< 2.5	< 2.8	8.5	< 3.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.48	< 0.50	< 0.50	< 0.45	< 0.52	< 0.50	< 0.55
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0	< 1.1	< 1.1	< 0.97	< 1.1	< 1.1	< 1.2
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.45	< 0.47	< 0.47	< 0.43	< 0.48	< 0.46	< 0.51
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.92	< 0.95	< 0.95	< 0.86	< 0.97	< 0.94	< 1.0
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.3	< 1.2	< 1.3	< 1.3	< 1.4
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4	< 1.4	< 1.4	< 1.3	< 1.5	< 1.4	< 1.5
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.5	< 1.4	< 1.6	< 1.5	< 1.7
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.90	< 0.93	< 0.93	< 0.84	< 0.95	< 0.92	< 1.0
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6	< 1.6	< 1.6	< 1.5	< 1.7	< 1.6	< 1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.42	< 0.44	< 0.44	< 0.40	< 0.45	< 0.43	< 0.48
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.25	< 0.26	< 0.26	< 0.24	< 0.27	< 0.26	< 0.29
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34	< 0.35	< 0.35	< 0.32	< 0.36	< 0.34	< 0.38
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		**Groundwater**						
				Location ID		MP-07-(048-077)	MP-07-(048-077)	MP-07-(080-112)	MP-07-(080-112)	MP-07-(080-112)	MP-07-(115-152)	MP-07-(115-152)
				Depth Interval		48 - 77 ft	48 - 77 ft	80 - 112 ft	80 - 112 ft	80 - 112 ft	115 - 152 ft	115 - 152 ft
				Sample Type Code		N	N	N	N	N	N	N
				Sample Name		MP-07-(48-77)-202308	MP-07-(048-077)-202311	MP-07-(80-112)-202306	MP-07-(80-112)-202308	MP-07-(080-112)-202311	MP-07-(115-152)-202306	MP-07-(115-152)-202308
				Sample Date		08/28/2023	11/06/2023	06/12/2023	08/28/2023	11/06/2023	06/12/2023	08/28/2023
				Sample Time		13:55	12:15	13:07	13:35	12:00	12:55	13:15
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	3.2	< 3.3	< 2.5	3.4	< 2.6	50	48
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.64	< 0.67	0.76 J	3.1	< 0.53	190	250
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	0.84	< 0.79	0.63 J	4.0	< 0.63	140	160
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.33	< 0.34	< 0.26	0.80	< 0.27	41	47
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 1.1	< 1.2	< 0.89	1.1	< 0.92	**41**	**45**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.36	< 0.37	< 0.28	< 0.35	< 0.29	2.6	2.4
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.41	< 0.42	< 0.32	< 0.40	< 0.34	< 0.31	< 0.34
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.4	< 1.5	< 1.2	< 1.4	< 1.2	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.72	< 0.75	< 0.58	< 0.71	< 0.59	< 0.56	< 0.60
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.7	< 1.8	< 1.4	< 1.7	< 1.4	< 1.3	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.96	< 1.0	< 0.76	< 0.94	< 0.79	< 0.74	< 0.80
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	6.2	6.2	7.2	6.5	6.0	0.32 J	< 0.22
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.39	< 0.41	< 0.31	< 0.39	< 0.32	< 0.30	< 0.33
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.75	< 0.78	< 0.60	2.5	< 0.62	1.1 J	1.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.25	< 0.26	< 0.20	< 0.24	< 0.21	< 0.19	< 0.21
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.71	< 0.74	< 0.56	*13*	< 0.58	0.98 J	1.0
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.49	< 0.50	< 0.39	< 0.48	< 0.40	< 0.38	< 0.41
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.42	< 0.44	< 0.33	< 0.41	< 0.35	< 0.32	< 0.35
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.0	< 1.2	< 1.0	< 0.98	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.32	< 0.33	< 0.25	< 0.31	< 0.26	4.8	5.6
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 3.3	< 3.4	< 2.6	12	< 2.7	660	850
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.61	< 0.63	< 0.48	4.1	< 0.50	14	19
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.0	< 1.3	< 1.1	< 0.99	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.57	< 0.59	< 0.45	< 0.55	< 0.46	< 0.44	< 0.47
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.1	< 1.2	< 0.91	< 1.1	< 0.94	< 0.88	< 0.96
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.6	< 1.6	< 1.3	< 1.5	< 1.3	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.7	< 1.8	< 1.4	< 1.7	< 1.4	< 1.3	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.8	< 1.9	< 1.5	< 1.8	< 1.5	< 1.4	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 1.1	< 1.2	< 0.89	< 1.1	< 0.92	< 0.86	< 0.93
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 2.0	< 2.0	< 1.6	< 1.9	< 1.6	< 1.5	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.53	< 0.55	< 0.42	< 0.51	< 0.43	< 0.41	< 0.44
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.32	< 0.33	< 0.25	< 0.31	< 0.26	< 0.24	< 0.26
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.42	< 0.44	< 0.33	< 0.41	< 0.35	< 0.32	< 0.35
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater						
						Location ID	MP-07-(115-152)	MP-07-(155-192)	MP-07-(155-192)	MP-07-(155-192)	MP-07-(155-192)	MP-07-(155-192)	MP-07-(155-192)	MP-07-(195-217)
						Depth Interval	115 - 152 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	195 - 217 ft
						Sample Type Code	N	N	FD	N	FD	N	FD	N
						Sample Name	MP-07-(115-152)-202311	MP-07-(155-192)-202306	DUP-07-202306	MP-07-(155-192)-202308	DUP-02-202308	MP-07-(155-192)-202311	DUP-02-202311	MP-07-(195-217)-202306
						Sample Date	11/06/2023	06/12/2023	06/12/2023	08/28/2023	08/30/2023	11/06/2023	11/06/2023	06/12/2023
						Sample Time	11:45	12:37	00:00	12:50	00:00	11:30	00:00	12:17
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	44	3.8 J	3.2 J	3.0	3.1	3.0 J	3.0 J	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	260	14	13	12	13	13	12	1.0 J
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	170	9.4	10	8.1	8.5	8.2	8.6	< 0.57
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	43	3.0	3.3	2.8	2.9	2.9	2.8	< 0.25
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**46**	*3.3*	*3.2*	*2.3*	*2.8*	*3.2*	*2.7*	< 0.84
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	2.4	< 0.27	< 0.29	< 0.27	< 0.29	< 0.28	< 0.27	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.35	< 0.31	< 0.33	< 0.31	< 0.33	< 0.33	< 0.32	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.62	< 0.55	< 0.59	< 0.55	< 0.59	< 0.58	< 0.56	< 0.54
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.5	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.83	< 0.73	< 0.78	< 0.73	< 0.78	< 0.77	< 0.74	< 0.72
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.28 J	0.28 J	< 0.21	< 0.20	< 0.21	< 0.21	< 0.20	< 0.20
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.34	< 0.30	< 0.32	< 0.30	< 0.32	< 0.32	< 0.30	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	1.3 J	< 0.57	< 0.61	< 0.57	< 0.61	< 0.60	< 0.58	< 0.56
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.22	< 0.19	< 0.20	< 0.19	< 0.20	< 0.20	< 0.19	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	0.94 J	< 0.54	< 0.58	< 0.54	< 0.58	< 0.57	< 0.55	< 0.53
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.42	< 0.37	< 0.40	< 0.37	< 0.40	< 0.39	< 0.38	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.36	< 0.32	< 0.34	< 0.32	< 0.34	< 0.34	< 0.33	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 0.97	< 1.0	< 0.98	< 1.0	< 1.0	< 0.99	< 0.96
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	7.0	0.35 J	< 0.26	< 0.24	< 0.26	0.27 J	< 0.24	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	950	40	49	32 J	44 J	41	39	4.0 J
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	21	1.1 J	1.5 J	0.78	1.6	1.6 J	1.2 J	< 0.45
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.1	< 0.98	< 1.0	< 0.99	< 1.0	< 1.0	< 1.0	< 0.97
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.49	< 0.43	< 0.46	< 0.43	< 0.46	< 0.45	< 0.44	< 0.42
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.99	< 0.87	< 0.93	< 0.88	< 0.93	< 0.91	< 0.88	< 0.86
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.4	< 1.2	< 1.3	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.5	< 1.3	< 1.4	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.6	< 1.4	< 1.5	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.96	< 0.85	< 0.91	< 0.86	< 0.91	< 0.89	< 0.86	< 0.84
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.7	< 1.5	< 1.6	< 1.5	< 1.6	< 1.6	< 1.5	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.45	< 0.40	< 0.43	< 0.40	< 0.43	< 0.42	< 0.41	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.27	< 0.24	< 0.26	< 0.24	< 0.26	< 0.25	< 0.24	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.36	< 0.32	< 0.34	< 0.32	< 0.34	< 0.34	< 0.33	< 0.32
Combined Standard														
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		**Groundwater**						
				Location ID		MP-07-(195-217)	MP-07-(195-217)	MP-07-(220-258)	MP-07-(220-258)	MP-07-(220-258)	MP-08-(048-077)	MP-08-(048-077)
				Depth Interval		195 - 217 ft	195 - 217 ft	220 - 258 ft	220 - 258 ft	220 - 258 ft	48 - 77 ft	48 - 77 ft
				Sample Type Code		N	N	N	N	N	N	N
				Sample Name		MP-07-(195-217)-202308	MP-07-(195-217)-202311	MP-07-(220-258)-202306	MP-07-(220-258)-202308	MP-07-(220-258)-202311	MP-08-(48-77)-202306	MP-08-(48-77)-202308
				Sample Date		08/28/2023	11/06/2023	06/12/2023	08/28/2023	11/06/2023	06/12/2023	08/28/2023
				Sample Time		12:25	11:15	12:05	12:15	11:00	11:28	11:45
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.8	< 2.5	< 2.7	< 2.4	< 2.9	4.0 J	4.8
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.57	< 0.50	< 0.55	< 0.49	< 0.59	< 0.49	< 0.55
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	0.87	< 0.60	< 0.65	0.72	< 0.70	< 0.58	< 0.65
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.29	< 0.26	< 0.28	< 0.25	< 0.30	< 0.25	< 0.28
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.99	< 0.87	< 0.95	< 0.84	< 1.0	< 0.85	< 0.96
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.31	< 0.28	< 0.30	< 0.27	< 0.33	< 0.27	< 0.30
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.36	< 0.32	< 0.35	< 0.31	< 0.38	< 0.31	< 0.35
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 1.1	< 1.2	< 1.1	< 1.3	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.64	< 0.57	< 0.62	< 0.54	< 0.67	< 0.55	< 0.62
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.5	< 1.3	< 1.5	< 1.3	< 1.6	< 1.3	< 1.5
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.85	< 0.75	< 0.82	< 0.72	< 0.89	< 0.73	< 0.82
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.23	< 0.21	< 0.22	< 0.20	< 0.24	13	23
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.35	< 0.31	< 0.34	< 0.30	< 0.36	< 0.30	< 0.34
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.66	< 0.59	< 0.64	< 0.56	< 0.69	< 0.57	< 0.64
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.22	< 0.20	< 0.21	< 0.19	< 0.23	< 0.19	< 0.21
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.63	< 0.56	< 0.61	< 0.53	< 0.66	< 0.54	< 0.61
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.43	< 0.38	< 0.41	< 0.37	< 0.45	< 0.37	< 0.42
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.37	< 0.33	< 0.36	< 0.32	< 0.39	< 0.32	< 0.36
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 1.0	< 1.1	< 0.96	< 1.2	< 0.97	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.28	< 0.25	< 0.27	< 0.24	< 0.29	< 0.24	< 0.27
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.9	< 2.6	< 2.8	< 2.5	< 3.0	< 2.5	< 2.8
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.54	< 0.47	< 0.52	< 0.46	< 0.56	< 0.46	< 0.52
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.1	< 1.0	< 1.1	< 0.97	< 1.2	< 0.98	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.50	< 0.44	< 0.48	< 0.43	< 0.52	< 0.43	< 0.48
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.0	< 0.89	< 0.98	< 0.86	< 1.1	< 0.87	< 0.98
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.4	< 1.2	< 1.3	< 1.2	< 1.5	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.5	< 1.3	< 1.5	< 1.3	< 1.6	< 1.3	< 1.5
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.6	< 1.4	< 1.6	< 1.4	< 1.7	< 1.4	< 1.6
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.99	< 0.87	< 0.95	1.4	< 1.0	< 0.85	< 0.96
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.7	< 1.5	< 1.7	< 1.5	< 1.8	< 1.5	< 1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.47	< 0.41	< 0.45	< 0.40	< 0.49	< 0.40	< 0.45
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.28	< 0.25	< 0.27	< 0.24	< 0.29	< 0.24	< 0.27
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.37	< 0.33	< 0.36	< 0.32	< 0.39	< 0.32	< 0.36
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
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ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

					Sample Type	Groundwater							
					Location ID	MP-08-(048-077)	MP-08-(080-112)	MP-08-(080-112)	MP-08-(080-112)	MP-08-(115-152)	MP-08-(115-152)	MP-08-(115-152)
					Depth Interval	48 - 77 ft	80 - 112 ft	80 - 112 ft	80 - 112 ft	115 - 152 ft	115 - 152 ft	115 - 152 ft
					Sample Type Code	N	N	N	N	N	N	N
					Sample Name	MP-08-(048-077)-202311	MP-08-(80-112)-202306	MP-08-(80-112)-202308	MP-08-(080-112)-202311	MP-08-(115-152)-202306	MP-08-(115-152)-202308	MP-08-(115-152)-202311
					Sample Date	11/06/2023	06/12/2023	08/28/2023	11/06/2023	06/12/2023	08/28/2023	11/06/2023
					Sample Time	10:30	11:18	11:25	10:15	11:08	11:10	09:55
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**							
Carboxylic Acids												
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	3.9 J	71	48	34	< 2.4	< 2.4	< 2.7
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.57	290	220	150	0.74 J	0.94	2.7
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.67	170	130	79	< 0.59	1.3	1.9 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.29	29	24	13	< 0.25	< 0.25	< 0.28
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.98	*2.3*	*2.5*	1.4 J	< 0.87	< 0.86	< 0.94
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.31	< 0.29	< 0.36	< 0.33	< 0.27	< 0.27	< 0.30
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.36	< 0.33	< 0.41	< 0.37	< 0.32	< 0.31	< 0.34
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 1.2	< 1.4	< 1.3	< 1.1	< 1.1	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.63	< 0.58	< 0.72	< 0.66	< 0.56	< 0.56	< 0.61
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.5	< 1.4	< 1.7	< 1.6	< 1.3	< 1.3	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.84	< 0.78	< 0.96	< 0.88	< 0.74	< 0.74	< 0.81
Sulfonic Acids												
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	20	0.84 JI	0.45	0.44 J	< 0.20	< 0.20	< 0.22
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.35	< 0.32	< 0.40	< 0.36	< 0.31	< 0.30	< 0.33
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.66	< 0.61	< 0.75	< 0.69	< 0.58	< 0.58	< 0.63
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.22	< 0.20	< 0.25	< 0.23	< 0.19	< 0.19	< 0.21
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.62	< 0.57	< 0.71	< 0.65	< 0.55	< 0.55	< 0.60
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.43	< 0.39	< 0.49	< 0.45	< 0.38	< 0.38	< 0.41
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.37	< 0.34	< 0.42	< 0.39	< 0.33	< 0.32	< 0.35
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 1.0	< 1.3	< 1.2	< 0.99	< 0.98	< 1.1
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.28	8.4	8.0	5.3	< 0.24	< 0.24	< 0.27
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.9	45	39	25	< 2.5	< 2.5	< 2.8
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.53	< 0.49	< 0.61	< 0.55	< 0.47	< 0.47	< 0.51
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols												
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.1	< 1.0	< 1.3	< 1.2	< 1.0	< 0.99	< 1.1
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.50	< 0.46	< 0.57	< 0.52	< 0.44	< 0.44	< 0.48
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.0	< 0.92	< 1.1	< 1.0	< 0.89	< 0.88	< 0.96
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.6	< 1.4	< 1.2	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.5	< 1.4	< 1.7	< 1.6	< 1.3	< 1.3	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.6	< 1.5	< 1.8	< 1.7	< 1.4	< 1.4	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.98	< 0.90	< 1.1	< 1.0	< 0.87	< 0.86	< 0.94
Replacement Chemicals												
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.7	< 1.6	< 2.0	< 1.8	< 1.5	< 1.5	< 1.7
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.46	< 0.42	< 0.53	< 0.48	< 0.41	< 0.41	< 0.44
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.28	< 0.25	< 0.32	< 0.29	< 0.24	< 0.24	< 0.27
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.37	< 0.34	< 0.42	< 0.39	< 0.33	< 0.32	< 0.35
Combined Standard												
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**						
						Location ID	MP-08-(155-192)	MP-08-(155-192)	MP-08-(155-192)	MP-08-(155-192)	MP-08-(155-192)	MP-08-(155-192)	MP-08-(195-217)	MP-08-(195-217)
						Depth Interval	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	155 - 192 ft	195 - 217 ft	195 - 217 ft
						Sample Type Code	N	FD	N	FD	N	FD	N	N
						Sample Name	MP-08-(155-192)-202306	DUP-08-202306	MP-08-(155-192)-202308	DUP-01-202308	MP-08-(155-192)-202311	DUP-01-202311	MP-08-(195-217)-202306	MP-08-(195-217)-202308
						Sample Date	06/12/2023	06/12/2023	08/28/2023	08/30/2023	11/06/2023	11/06/2023	06/12/2023	08/28/2023
						Sample Time	10:48	00:00	10:40	00:00	09:40	00:00	10:27	10:15
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**									
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.8	< 2.4	< 2.4	< 2.3	< 2.2	< 2.8	< 2.6	< 2.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.57	< 0.49	< 0.49	< 0.47	< 0.45	< 0.57	< 0.54	< 0.49
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.67	< 0.58	0.70	< 0.56	< 0.54	< 0.67	< 0.64	0.74
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.29	< 0.25	< 0.25	< 0.24	< 0.23	< 0.29	< 0.28	< 0.25
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.98	< 0.85	< 0.86	< 0.82	< 0.79	< 0.98	< 0.94	< 0.85
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.31	< 0.27	< 0.27	< 0.26	< 0.25	< 0.31	< 0.30	< 0.27
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.36	0.37 J	< 0.31	< 0.30	< 0.29	< 0.36	< 0.34	< 0.31
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.3	< 1.1	< 1.1	< 1.1	< 1.0	< 1.3	< 1.2	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.63	< 0.55	< 0.55	< 0.53	< 0.51	< 0.64	< 0.61	< 0.55
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.5	< 1.3	< 1.3	< 1.3	< 1.2	< 1.5	< 1.4	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.84	< 0.73	< 0.73	< 0.71	< 0.68	< 0.84	< 0.81	< 0.73
Sulfonic Acids													
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.28 J	< 0.20	< 0.20	< 0.19	< 0.19	< 0.23	1.7 J	0.29
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.35	< 0.30	< 0.30	< 0.29	< 0.28	< 0.35	< 0.33	< 0.30
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.66	< 0.57	< 0.57	< 0.55	< 0.53	< 0.66	< 0.63	< 0.57
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.22	< 0.19	< 0.19	< 0.18	< 0.18	< 0.22	< 0.21	< 0.19
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.62	< 0.54	< 0.54	< 0.52	< 0.50	< 0.63	< 0.60	< 0.54
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.43	< 0.37	< 0.37	< 0.36	< 0.34	< 0.43	< 0.41	< 0.37
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.37	< 0.32	< 0.32	< 0.31	< 0.30	< 0.37	< 0.35	< 0.32
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.1	< 0.97	< 0.98	< 0.94	< 0.90	< 1.1	< 1.1	< 0.97
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.28	< 0.24	< 0.24	< 0.23	< 0.22	< 0.28	< 0.26	< 0.24
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.9	< 2.5	< 2.5	< 2.4	< 2.3	< 2.9	< 2.8	< 2.5
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.53	< 0.46	< 0.46	< 0.44	< 0.43	< 0.53	< 0.51	< 0.46
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols													
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.1	< 0.98	< 0.99	< 0.95	< 0.91	< 1.1	< 1.1	< 0.98
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.50	< 0.43	< 0.43	< 0.42	< 0.40	< 0.50	< 0.47	< 0.43
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 1.0	< 0.87	< 0.88	< 0.84	< 0.81	< 1.0	< 0.96	< 0.87
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.4	< 1.2	< 1.2	< 1.2	< 1.1	< 1.4	< 1.3	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.5	< 1.3	< 1.3	< 1.3	< 1.2	< 1.5	< 1.4	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.6	2.0 J	< 1.4	< 1.4	< 1.3	< 1.6	< 1.5	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.98	*2.4*	< 0.86	< 0.82	< 0.79	< 0.98	< 0.94	< 0.85
Replacement Chemicals													
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.7	< 1.5	< 1.5	< 1.4	< 1.4	< 1.7	< 1.7	< 1.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.46	< 0.40	< 0.40	< 0.39	< 0.37	< 0.46	< 0.44	< 0.40
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.28	< 0.24	< 0.24	< 0.23	< 0.22	< 0.28	< 0.26	< 0.24
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.37	< 0.32	< 0.32	< 0.31	< 0.30	< 0.37	< 0.35	< 0.32
Combined Standard													
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		**Groundwater**									
				Location ID		MP-08-(195-217)	MP-08-(220-246)	MP-08-(220-246)	MP-08-(220-246)	MW-01	MW-01	MW-01	MW-01	MW-01
				Depth Interval		195 - 217 ft	220 - 246 ft	220 - 246 ft	220 - 246 ft					
				Sample Type Code		N	N	N	N	N	N	N	N	N
				Sample Name		MP-08-(195-217)-202311	MP-08-(220-246)-202306	MP-08-(220-246)-202308	MP-08-(220-246)-202311	MW-01-202105	MW-01-20210716	MW-01-202201	MW-01-202204	MW-01-202207
				Sample Date		11/06/2023	06/12/2023	08/28/2023	11/06/2023	05/17/2021	07/16/2021	01/21/2022	04/12/2022	07/27/2022
				Sample Time		08:50	10:06	10:00	08:35	12:45	09:23	16:00	14:45	12:37
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**									
Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.4	< 2.5	< 2.9	< 2.6	110	270	320	300	260
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.49	< 0.50	< 0.60	< 0.52	410	1200	1200	1200	1100
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.59	< 0.60	0.82	< 0.62	170	530	660	600	680
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.25	< 0.26	< 0.31	< 0.27	93	210	270	260	360
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.86	< 0.87	< 1.0	< 0.90	**51**	**160**	**93**	**120**	**110**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.27	< 0.28	< 0.33	< 0.29	2.4	*15*	*10*	*13*	*12*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.31	< 0.32	< 0.38	< 0.33	< 0.29	< 0.29	< 0.29	< 0.28	< 0.28
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.1	< 1.1	< 1.3	< 1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.56	< 0.57	< 0.67	< 0.59	< 0.51	< 0.51	< 0.51	< 0.50	< 0.50
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.6	< 1.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.74	< 0.75	< 0.89	< 0.78	< 0.67	< 0.67	< 0.67	< 0.66	< 0.67
Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.20	< 0.21	< 0.24	< 0.21	0.33 J	0.83 J	0.56 J	0.65	0.84 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.30	< 0.31	< 0.37	< 0.32	< 0.28	< 0.28	< 0.28	< 0.27	< 0.27
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.58	< 0.59	< 0.70	< 0.61	0.53 J	0.64 J	0.66 J	0.64	0.91 J
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.19	< 0.20	< 0.23	< 0.20	< 0.17	< 0.17	< 0.18	< 0.17	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.55	< 0.56	< 0.66	< 0.57	< 0.50	*2.4*	*2.5 J*	*4.0*	*2.8*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.37	< 0.38	< 0.45	< 0.39	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.32	< 0.33	< 0.39	< 0.34	< 0.29	< 0.29	< 0.30	< 0.29	< 0.29
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.98	< 1.0	< 1.2	< 1.0	< 0.89	< 0.89	< 0.90	< 0.88	< 0.89
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.29	< 0.26	< 0.22	< 0.22	< 0.22	0.50	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.5	< 2.6	< 3.1	< 2.7	340	870	590	780	640
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.46	< 0.47	< 0.56	< 0.49	2.8	13	3.8	12	13
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols														
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.99	< 1.0	< 1.2	< 1.0	< 0.90	< 0.90	< 0.91	< 0.89	< 0.89
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.43	< 0.44	< 0.53	< 0.46	< 0.40	< 0.40	< 0.40	< 0.39	< 0.39
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.88	< 0.90	< 1.1	< 0.93	< 0.80	< 0.80	< 0.80	< 0.79	< 0.79
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.5	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.3	< 1.3	< 1.6	< 1.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.7	< 1.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.86	< 0.87	< 1.0	< 0.90	< 0.78	< 0.78	< 0.79	< 0.77	< 0.78
Replacement Chemicals														
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.5	< 1.5	< 1.8	< 1.6	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.40	< 0.41	< 0.49	< 0.43	< 0.37	< 0.37	< 0.37	< 0.36	< 0.36
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.24	< 0.25	< 0.29	< 0.26	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.32	< 0.33	< 0.39	< 0.34	< 0.29	< 0.29	< 0.30	< 0.29	< 0.29
Combined Standard														
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	None	clear	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	NA	774.4	713.74	826.55
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	NA	1.38	6.78	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	None	none	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	NA	103.2	132.4	156
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	NA	6.79	6.91	6.68
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	NA	9.97	12.34	15.59
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	NA	6.33	3.8	14.7
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater										
						Location ID	MW-01	MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-02	MW-03
						Depth Interval												
						Sample Type Code	N	N	N	N	N	N	N	N	N	N	N	N
						Sample Name	MW-01-202210	MW-01-202306	MW-01-202308	MW-01-202311	MW-02-202105	MW-02-20210716	MW-02-202207	MW-02-202210	MW-02-202306	MW-02-202308	MW-02-202311	MW-03-202105
						Sample Date	10/11/2022	06/14/2023	08/30/2023	11/08/2023	05/17/2021	07/16/2021	07/27/2022	10/12/2022	06/14/2023	08/30/2023	11/08/2023	05/17/2021
						Sample Time	16:14	09:13	09:42	10:09	15:12	10:51	11:58	13:20	13:34	13:37	14:25	16:35
Carboxylic Acids																		
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		320	240	210	150	20	240	230	300	260	260	220	3.8 J
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		1400	1000	990	830	79	1100	1000	1400	1200	1300	1200	1.2 J
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		780	570	550	390	53	720	650	790	670	800	630	0.99 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		800	580	590	480	15	200	220	270	240	250	220	0.69 J
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		**140**	**140**	**160**	**130**	*10*	**90**	**160**	**190**	**150**	**150**	**140**	< 0.77
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		*14*	*16*	*13*	*12*	0.82 J	*4.8*	*13*	*24*	*8.0 J*	*10*	*8.4*	< 0.24
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.29	1.6 J	0.50	0.38 J	< 0.28	< 0.27	0.66 J	2.7	< 1.4	1.2	0.78 J	< 0.28
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.0	< 4.9	< 0.95	< 1.1	< 0.98	< 0.96	< 0.99	< 0.98	< 4.8	< 0.95	< 1.1	< 0.99
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.52	< 2.4	< 0.48	< 0.57	< 0.49	< 0.48	< 0.50	< 0.49	< 2.4	< 0.47	< 0.55	< 0.50
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.2	< 5.7	< 1.1	< 1.4	< 1.2	< 1.1	< 1.2	< 1.2	< 5.7	< 1.1	< 1.3	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.68	< 3.2	< 0.63	< 0.76	< 0.65	< 0.64	< 0.66	< 0.65	< 3.2	< 0.63	< 0.73	< 0.66
Sulfonic Acids																		
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		0.74 J	< 0.88	0.65	0.68 J	< 0.18	0.37 J	0.44 J	0.71 J	< 0.88	0.42	0.45 J	0.47 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.28	< 1.3	< 0.26	< 0.31	< 0.27	< 0.26	< 0.27	< 0.27	< 1.3	< 0.26	< 0.30	< 0.27
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		0.97 J	< 2.5	1.2	1.2 J	< 0.51	1.4 J	1.1 J	1.2 J	< 2.5	1.2	1.1 J	< 0.51
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.18	< 0.84	< 0.16	< 0.20	< 0.17	< 0.17	< 0.17	< 0.17	< 0.84	< 0.16	< 0.19	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		*3.7*	*4.1 J*	*3.4*	*2.9*	< 0.48	0.87 J	1.6 J	*2.5*	< 2.4	1.2	1.2 J	< 0.49
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.35	< 1.6	< 0.32	< 0.38	< 0.33	< 0.32	< 0.33	< 0.33	< 1.6	< 0.32	< 0.37	< 0.33
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.30	< 1.4	< 0.28	< 0.33	< 0.28	< 0.28	< 0.29	< 0.29	< 1.4	< 0.28	< 0.32	< 0.29
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.91	< 4.3	< 0.84	< 1.0	< 0.86	< 0.85	< 0.87	< 0.87	< 4.3	< 0.83	< 0.97	< 0.88
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		0.40 J	< 1.1	< 0.21	< 0.25	< 0.21	2.7	2.0	3.2	1.6 J	2.0	1.8 J	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		840	890	1100	910	87	610	1100	1200	810	930	830	< 2.3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		29	170	55	33	3.0	39	28	99	50	29	16	< 0.42
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																		
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.92	< 4.3	1.1	< 1.0	< 0.87	< 0.86	< 0.88	< 0.88	< 4.3	< 0.84	< 0.98	< 0.89
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.40	< 1.9	< 0.37	< 0.45	< 0.38	< 0.38	< 0.39	< 0.38	< 1.9	< 0.37	< 0.43	< 0.39
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.82	< 3.8	< 0.75	< 0.90	< 0.77	< 0.76	< 0.78	< 0.78	< 3.8	< 0.75	< 0.87	< 0.79
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.1	< 5.3	< 1.0	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 5.3	< 1.0	< 1.2	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.2	< 5.7	< 1.1	< 1.4	< 1.2	< 1.1	< 1.2	< 1.2	< 5.7	< 1.1	< 1.3	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.3	< 6.2	< 1.2	< 1.5	< 1.2	< 1.2	< 1.3	< 1.3	< 6.2	< 1.2	< 1.4	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.80	< 3.8	< 0.74	< 0.88	< 0.75	< 0.74	< 0.77	< 0.76	< 3.7	< 0.73	< 0.85	< 0.77
Replacement Chemicals																		
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.4	< 6.6	< 1.3	< 1.6	< 1.3	< 1.3	< 1.4	< 1.3	< 6.6	< 1.3	< 1.5	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.38	< 1.8	< 0.35	< 0.42	< 0.36	< 0.35	< 0.36	< 0.36	< 1.8	< 0.34	1.8 J	< 0.36
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.23	< 1.1	< 0.21	< 0.25	< 0.21	< 0.21	< 0.22	< 0.21	< 1.1	< 0.21	< 0.24	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.30	< 1.4	< 0.28	< 0.33	< 0.28	< 0.28	< 0.29	< 0.29	< 1.4	< 0.28	< 0.32	< 0.29
Combined Standard																		
Color, Field	Color-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	none	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	664.22	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	7.7	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	none	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	103.17	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	7.01	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	21.32	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-		NA	NA	NA	NA	NA	NA	11.1	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	Groundwater										
						Location ID	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-03	MW-04	MW-04	MW-04
						Depth Interval												
						Sample Type Code	FD	N	N	N	N	N	N	N	N	N	N	N
						Sample Name	DUP-01-202105	MW-03-20210715	MW-03-202201	MW-03-202204	MW-03-202207	MW-03-202210	MW-03-202306	MW-03-202308	MW-03-202311	MW-04-202105	MW-04-20210716	MW-04-202201
						Sample Date	05/17/2021	07/15/2021	01/19/2022	04/12/2022	07/26/2022	10/11/2022	06/13/2023	08/29/2023	11/07/2023	05/19/2021	07/16/2021	01/21/2022
						Sample Time	00:00	11:52	10:02	12:55	17:17	15:03	15:51	18:16	15:50	14:29	12:14	17:11
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**													
Carboxylic Acids																		
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	3.7 J	6.2	12	11	10	9.5	6.3	6.8	6.5	300	300	460
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	0.89 J	< 0.43	1.2 J	1.4	1.9	1.2 J	0.70 J	< 0.44	0.62 J	1400	1200	1700
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	1.0 J	0.99 J	< 0.54	0.87	1.3 J	0.82 J	< 0.50	< 0.52	< 0.49	930	880	1400
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	0.58 J	< 0.22	< 0.23	0.55	1.1 J	0.84 J	0.37 J	0.34	0.36 J	490	540	620
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.75	< 0.75	< 0.80	< 0.77	0.79 J	< 0.77	< 0.73	< 0.76	< 0.72	**630**	**900**	**860**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.24	< 0.24	< 0.25	< 0.24	< 0.24	< 0.24	< 0.23	< 0.24	< 0.23	**55**	**68**	**59**
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.27	< 0.27	< 0.29	< 0.28	< 0.28	< 0.28	< 0.27	< 0.28	< 0.26	18	23	21
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 0.97	< 0.96	< 1.0	< 1.0	< 0.98	< 1.0	< 0.95	< 0.98	< 0.93	1.2 J	1.8	1.1 J
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.49	< 0.48	< 0.52	< 0.50	< 0.49	< 0.50	< 0.47	< 0.49	< 0.47	< 0.49	< 0.47	< 0.51
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.64	< 0.64	< 0.68	< 0.66	< 0.65	< 0.66	< 0.63	< 0.65	< 0.62	< 0.65	< 0.63	< 0.67
Sulfonic Acids																		
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.45 J	0.85 J	0.77 J	1.0	0.99 J	0.82 J	0.79 J	0.88	0.96 J	0.49 J	0.78 J	0.62 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.26	< 0.26	< 0.28	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27	< 0.25	0.29 J	0.32 J	0.31 J
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.50	< 0.50	< 0.53	< 0.52	< 0.51	< 0.52	< 0.49	< 0.51	< 0.48	2.5	3.1	3.8
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.17	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.16	< 0.17	< 0.16	< 0.17	< 0.16	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.48	< 0.47	< 0.51	< 0.49	< 0.48	< 0.49	< 0.47	< 0.48	< 0.46	*14*	*17*	*14*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.33	< 0.32	< 0.35	< 0.34	< 0.33	< 0.33	< 0.32	< 0.33	< 0.31	< 0.33	< 0.32	< 0.34
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.28	< 0.28	< 0.30	< 0.29	< 0.29	< 0.29	< 0.28	< 0.28	< 0.27	< 0.28	< 0.28	< 0.29
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.86	< 0.85	< 0.91	< 0.88	< 0.87	< 0.88	< 0.84	< 0.86	< 0.82	< 0.86	< 0.84	< 0.89
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.21	< 0.21	< 0.23	< 0.22	< 0.21	< 0.22	< 0.21	< 0.21	< 0.20	34	40	52
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.2	< 2.2	< 2.3	< 2.3	< 2.2	< 2.3	< 2.2	< 2.2	< 2.1	4100	3600	7300
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.41	< 0.40	< 0.43	< 0.42	< 0.41	< 0.42	< 0.40	< 0.41	< 0.39	1700	2300	1800
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																		
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.86	< 0.86	< 0.92	< 0.89	< 0.88	< 0.89	< 0.85	< 0.87	< 0.83	1.0 J	0.89 J	< 0.90
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.38	< 0.38	< 0.40	< 0.39	< 0.38	< 0.39	< 0.37	< 0.38	< 0.36	< 0.38	< 0.37	< 0.40
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.77	< 0.76	< 0.82	< 0.79	< 0.78	< 0.79	< 0.75	< 0.77	< 0.74	< 0.77	< 0.75	< 0.80
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.0	< 1.1	< 1.0	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.75	< 0.75	< 0.80	< 0.77	< 0.76	< 0.77	< 0.73	< 0.76	< 0.72	< 0.75	< 0.73	< 0.78
Replacement Chemicals																		
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.4	< 1.4	< 1.3	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.35	< 0.35	< 0.38	< 0.36	< 0.36	< 0.36	< 0.35	< 0.36	< 0.34	< 0.35	< 0.34	< 0.37
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.21	< 0.21	< 0.23	< 0.22	< 0.21	< 0.22	< 0.21	< 0.21	< 0.20	< 0.21	< 0.21	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.28	< 0.28	< 0.30	< 0.29	< 0.29	< 0.29	< 0.28	< 0.28	< 0.27	< 0.28	< 0.28	< 0.29
Combined Standard																		
Color, Field	Color-F	Field	none	-	-	NA	NA	Brown	slight yellow	none	NA	NA	NA	NA	NA	NA	brown
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	533.2	507.7	524.47	NA	NA	NA	NA	NA	NA	383.1
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	8.72	6.38	7.11	NA	NA	NA	NA	NA	NA	7.57
Odor, Field	Odor-F	Field	none	-	-	NA	NA	None	none	none	NA	NA	NA	NA	NA	NA	None
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	97.7	123.4	132.4	NA	NA	NA	NA	NA	NA	105.7
pH, Field	pH-F	Field	su	-	-	NA	NA	7.12	6.38	7.07	NA	NA	NA	NA	NA	NA	7.42
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	6.38	11.97	15.56	NA	NA	NA	NA	NA	NA	9.41
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	97.7	26.5	6.9	NA	NA	NA	NA	NA	NA	14.1
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

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mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

				Sample Type		Groundwater											
				Location ID		MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-04	MW-05	MW-05	MW-05
				Depth Interval													
				Sample Type Code		N	N	FD	N	FD	FD	N	FD	N	N	N	FD
				Sample Name		MW-04-202204	MW-04-202207	MW-04-202210	DUP-05-202210	MW-04-202306	DUP-09-202306	MW-04-202308	DUP-09-202308	MW-04-202311	MW-05-202105	MW-05-20210715	DUP-01-20210715
				Sample Date		04/12/2022	07/27/2022	10/12/2022	10/12/2022	06/14/2023	06/14/2023	08/30/2023	08/30/2023	11/08/2023	05/19/2021	07/15/2021	07/15/2021
				Sample Time		17:52	13:35	14:49	00:00	14:56	00:00	14:43	00:00	15:34	10:43	14:56	00:00
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**												
Carboxylic Acids																	
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	530	430	520	510	500	480	460	490	480	78	51	51
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	1800	1800	2100	2500	2300	2100	2200	2400	2600	320	230	220
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	3100	1700	1700	1800	1600	1700	1700	1700	1800	190	140	130
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	880	760	1000	920	880	810	970	1000	1100	96	98	93
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**1300**	**1500**	**1500**	**1300**	**1100**	**1000**	**1000**	**1100**	**1400**	**69**	**61**	**56**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	**85**	**91**	**85**	**89**	**83**	**83**	**72**	**70**	**91**	0.28 J	*6.2*	*7.1*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	28	46	33	33	37	33 J	29	30	31	< 0.28	1.9	1.8 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	1.8	2.1	2.3	2.2	< 19	< 19	1.9	2.1	2.2	< 0.98	< 1.0	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.49	0.76 J	0.85 J	0.66 J	< 9.4	< 9.3	0.77	0.91	0.74 J	< 0.49	< 0.50	< 0.53
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.3	< 22	< 22	< 1.1	< 1.1	< 1.3	< 1.2	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.65	< 0.65	< 0.69	< 0.72	< 13	< 12	< 0.63	< 0.60	< 0.72	< 0.65	< 0.67	< 0.70
Sulfonic Acids																	
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.98	0.83 J	0.93 J	1.1 J	< 3.4	< 3.4	0.71	0.74	0.92 J	0.44 J	0.61 J	0.50 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	0.48	0.54 J	0.62 J	0.46 J	< 5.1	< 5.1	0.38	0.39	0.67 J	< 0.27	< 0.28	< 0.29
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	*4.1*	*4.3*	*5.2*	*4.9*	< 9.8	< 9.6	3.5	3.7	*5.0*	0.69 J	< 0.52	< 0.55
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.17	< 0.17	< 0.18	< 0.19	< 3.3	< 3.2	0.70 J	0.88 J	0.40 J	< 0.17	< 0.17	< 0.18
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	**20**	**34**	**28**	**29**	**29 J**	**25 J**	**23**	**24**	**26**	< 0.48	*3.2*	*2.9*
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.33	< 0.33	< 0.35	< 0.37	< 6.3	< 6.2	< 0.32	< 0.30	< 0.36	< 0.33	< 0.34	< 0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.29	< 0.29	< 0.30	< 0.32	< 5.5	< 5.4	< 0.27	< 0.26	< 0.32	< 0.29	< 0.29	< 0.31
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.87	< 0.86	< 0.91	< 0.96	< 17	< 16	< 0.83	< 0.80	< 0.96	< 0.86	< 0.89	< 0.93
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	110	74	63	67	46	50	43	46	57	< 0.21	< 0.22	< 0.23
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	5900 J	6200 J	6200 J	6900	5300	5200 J	5000 J	5100 J	6100	460	120	120
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	2100 J	4100	3100	3100	3500	3400 J	3000	2800 J	3400	1.0 J	96	81
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																	
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.88	< 0.87	< 0.92	< 0.97	< 17	< 17	< 0.84	< 0.81	< 0.97	< 0.87	< 0.90	< 0.94
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.39	< 0.38	< 0.40	< 0.43	< 7.4	< 7.3	< 0.37	< 0.35	< 0.42	< 0.38	< 0.39	< 0.41
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.78	< 0.78	< 0.82	< 0.86	< 15	< 15	< 0.75	< 0.72	< 0.86	< 0.78	< 0.80	< 0.84
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.1	< 1.2	< 21	< 20	< 1.0	< 0.99	< 1.2	< 1.1	< 1.1	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.2	< 1.2	< 1.3	< 22	< 22	< 1.1	< 1.1	< 1.3	< 1.2	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.3	< 1.4	< 24	< 24	< 1.2	< 1.2	< 1.4	< 1.2	< 1.3	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.76	< 0.76	< 0.80	< 0.84	< 15	< 14	< 0.73	< 0.70	< 0.84	< 0.76	< 0.78	< 0.82
Replacement Chemicals																	
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.4	< 1.5	< 26	< 25	< 1.3	< 1.2	< 1.5	< 1.3	< 1.4	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.36	< 0.36	< 0.38	< 0.40	< 6.9	< 6.8	< 0.34	< 0.33	< 0.39	< 0.36	< 0.37	< 0.38
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.22	< 0.21	< 0.23	< 0.24	< 4.1	< 4.1	< 0.21	< 0.20	< 0.24	< 0.21	< 0.22	< 0.23
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.29	< 0.29	< 0.30	< 0.32	< 5.5	< 5.4	< 0.27	< 0.26	< 0.32	< 0.29	< 0.29	< 0.31
Combined Standard																	
Color, Field	Color-F	Field	none	-	-	yellowish	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	366.75	378.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	8.01	9.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	127.8	168.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	7.6	7.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	11.67	16.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	18.5	20.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	Groundwater											
						Location ID	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-06	MW-06
						Depth Interval												
						Sample Type Code	N	FD	N	FD	N	FD	N	N	N	N	N	N
						Sample Name	MW-05-202201	DUP-04-202201	MW-05-202204	DUP-06-202204	MW-05-202207	DUP-06-202207	MW-05-202210	MW-05-202306	MW-05-202308	MW-05-202311	MW-06-202105	MW-06-20210715
						Sample Date	01/21/2022	01/21/2022	04/12/2022	04/12/2022	07/27/2022	07/27/2022	10/12/2022	06/14/2023	08/30/2023	11/08/2023	05/19/2021	07/15/2021
						Sample Time	13:25	00:00	16:10	00:00	09:09	00:00	12:03	12:21	11:43	12:45	12:58	09:29
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**													
Carboxylic Acids																		
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	78	74	47	50	50	51	44	47	55	45	2.7 J	< 2.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	270	270	170	170	210	210	210	180	260	270	< 0.44	< 0.44
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	170	170	110	110	140	150	140	120	160	160	< 0.52	0.51 J
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	96	93	81	78	120	110	96	91	140	130	< 0.22	< 0.22
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**73**	**66**	**47**	**49**	**110**	**120**	**64**	**54**	**93**	**100**	< 0.76	< 0.75
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	*6.4*	*6.2*	*5.4*	*5.3*	*11*	*11*	*7.2*	*5.2*	*8.3*	*8.3*	< 0.24	< 0.24
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.29	< 0.29	1.2	1.2	3.2	3.2	4.3	1.7 J	2.8	3.7	< 0.28	< 0.28
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.0	< 1.0	< 1.0	< 1.0	< 0.93	< 0.99	< 1.0	< 0.97	< 0.94	< 1.1	< 0.98	< 0.98
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.51	< 0.51	< 0.50	< 0.51	< 0.47	< 0.49	< 0.52	< 0.48	< 0.47	< 0.56	< 0.49	< 0.49
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.3	< 1.2	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.68	< 0.68	< 0.66	< 0.67	< 0.62	< 0.66	< 0.69	< 0.64	< 0.62	< 0.75	< 0.65	< 0.65
Sulfonic Acids																		
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.47 J	0.50 J	0.49	0.50	0.54 J	0.51 J	0.63 J	0.51 J	0.58	0.84 J	< 0.18	< 0.18
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.28	< 0.28	< 0.27	< 0.28	< 0.25	< 0.27	< 0.28	< 0.26	< 0.26	< 0.31	< 0.27	< 0.27
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.53	< 0.53	< 0.52	< 0.52	0.53 J	0.54 J	< 0.54	< 0.50	< 0.49	< 0.58	< 0.51	< 0.51
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.18	< 0.17	< 0.17	< 0.16	< 0.17	< 0.18	< 0.17	< 0.16	< 0.19	< 0.17	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	1.6 J	1.9	1.7	1.8	*5.1*	*5.5*	*4.8*	*3.0*	*4.3*	*4.4*	< 0.48	< 0.48
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.34	< 0.34	< 0.34	< 0.34	< 0.31	< 0.33	< 0.35	< 0.33	< 0.31	< 0.38	< 0.33	< 0.33
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.30	< 0.30	< 0.29	< 0.29	< 0.27	< 0.29	< 0.30	< 0.28	< 0.27	< 0.33	< 0.28	< 0.28
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.90	< 0.90	< 0.88	< 0.89	< 0.82	< 0.87	< 0.92	< 0.85	< 0.83	< 0.99	< 0.86	< 0.86
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.22	< 0.22	< 0.22	< 0.22	2.3	2.5	< 0.23	< 0.21	1.3	2.2	< 0.21	< 0.21
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	150	150	84	89	470	410	140	44	290	370	< 2.2	< 2.2
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	42	43	41	40	290	310	340	65	230	340	< 0.41	< 0.41
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																		
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.91	< 0.91	< 0.89	< 0.90	< 0.83	< 0.88	< 0.93	< 0.86	< 0.83	< 1.0	< 0.87	< 0.87
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.40	< 0.40	< 0.39	< 0.40	< 0.36	< 0.39	< 0.41	< 0.38	< 0.37	< 0.44	< 0.38	< 0.38
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.81	< 0.81	< 0.79	< 0.80	< 0.74	< 0.78	< 0.82	< 0.77	< 0.74	< 0.89	< 0.77	< 0.77
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.1	< 1.1	< 1.0	< 1.1	< 1.1	< 1.1	< 1.0	< 1.2	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.3	< 1.2	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.3	< 1.3	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.4	< 1.2	< 1.2
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.79	< 0.79	< 0.77	< 0.78	< 0.72	< 0.76	< 0.80	< 0.75	< 0.72	< 0.87	< 0.76	< 0.75
Replacement Chemicals																		
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.4	< 1.4	< 1.4	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.3	< 1.5	< 1.3	< 1.3
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.37	< 0.37	< 0.36	< 0.37	< 0.34	< 0.36	< 0.38	< 0.35	< 0.34	< 0.41	< 0.36	< 0.36
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.22	< 0.22	< 0.22	< 0.22	< 0.20	< 0.22	< 0.23	< 0.21	< 0.20	< 0.25	< 0.21	< 0.21
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.30	< 0.30	< 0.29	< 0.29	< 0.27	< 0.29	< 0.30	< 0.28	< 0.27	< 0.33	< 0.28	< 0.28
Combined Standard																		
Color, Field	Color-F	Field	none	-	-	Brown	NA	cloudy/murky	NA	none	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	631.1	NA	660.45	NA	629.02	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	7.18	NA	7.51	NA	8.81	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	None	NA	none	NA	none	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	99.1	NA	131.2	NA	118.36	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	7.06	NA	7.08	NA	6.79	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	7.77	NA	12.78	NA	17.19	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	412	NA	79.5	NA	29	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Groundwater											
Sample Type						Groundwater											
Location ID						MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07	MW-07	MW-07
Depth Interval																	
Sample Type Code						N	N	N	N	N	N	N	N	N	N	N	N
Sample Name						MW-06-202201	MW-06-202204	MW-06-202207	MW-06-202210	MW-06-202306	MW-06-202308	MW-06-202311	MW-07-202105	MW-07-20210714	MW-07-202201	MW-07-202204	MW-07-202207
Sample Date						01/18/2022	04/12/2022	07/26/2022	10/11/2022	06/13/2023	08/29/2023	11/07/2023	05/19/2021	07/14/2021	01/18/2022	04/12/2022	07/26/2022
Sample Time						14:46	11:50	15:34	13:23	14:31	16:54	13:53	08:41	13:18	13:34	10:40	13:45
Carboxylic Acids																	
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.2	< 2.1	< 2.2	5.2	2.9 J	2.6	3.0 J	< 2.1	< 2.1	< 2.2	< 2.0	< 2.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.45	< 0.42	< 0.44	< 0.45	< 0.42	< 0.41	< 0.41	< 0.43	< 0.43	< 0.45	< 0.40	< 0.43
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.54	< 0.50	< 0.52	< 0.53	< 0.50	< 0.49	< 0.49	< 0.51	< 0.51	< 0.54	< 0.47	< 0.51
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.23	< 0.22	< 0.23	< 0.23	< 0.22	< 0.21	< 0.21	< 0.22	< 0.22	< 0.23	< 0.20	< 0.22
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.78	< 0.74	< 0.77	< 0.78	< 0.73	< 0.72	< 0.72	< 0.75	< 0.74	< 0.79	< 0.70	< 0.75
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.25	< 0.23	< 0.24	< 0.25	< 0.23	< 0.23	< 0.23	< 0.24	< 0.24	< 0.25	< 0.22	< 0.24
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.29	< 0.27	< 0.28	< 0.28	< 0.27	< 0.26	< 0.26	< 0.27	< 0.27	< 0.29	< 0.25	< 0.27
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.0	< 0.95	< 1.0	< 1.0	< 0.95	< 0.93	< 0.93	< 0.97	< 0.96	< 1.0	< 0.90	< 0.97
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.51	< 0.48	< 0.50	< 0.50	< 0.47	< 0.46	< 0.46	< 0.49	< 0.48	< 0.51	< 0.45	< 0.49
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.67	< 0.63	< 0.66	< 0.67	< 0.63	< 0.61	< 0.61	< 0.64	< 0.64	< 0.67	< 0.60	< 0.64
Sulfonic Acids																	
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.66 J	0.66	0.88 J	1.1 J	1.2 J	0.76	0.74 J	3.0	8.4	0.86 J	1.3	13
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.28	< 0.26	< 0.27	< 0.27	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.28	< 0.25	< 0.26
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.53	< 0.49	< 0.52	< 0.52	< 0.49	< 0.48	< 0.48	< 0.50	< 0.50	< 0.53	< 0.47	< 0.50
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.16	< 0.17	< 0.17	0.19 J	< 0.16	< 0.16	< 0.17	< 0.17	< 0.18	< 0.16	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.50	< 0.47	< 0.49	< 0.49	< 0.47	< 0.45	< 0.45	< 0.48	< 0.47	< 0.50	< 0.44	< 0.48
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.34	< 0.32	< 0.33	< 0.34	< 0.32	< 0.31	< 0.31	< 0.33	< 0.32	< 0.34	< 0.30	< 0.33
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.30	< 0.28	< 0.29	< 0.29	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.30	< 0.26	< 0.28
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.90	< 0.84	< 0.88	< 0.89	< 0.84	< 0.82	< 0.82	< 0.86	< 0.85	< 0.90	< 0.79	< 0.86
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.22	< 0.21	< 0.22	< 0.22	< 0.21	< 0.20	< 0.20	< 0.21	< 0.21	< 0.22	< 0.20	< 0.21
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.3	< 2.2	< 2.3	< 2.3	19	< 2.1	< 2.1	< 2.2	< 2.2	< 2.3	< 2.0	< 2.2
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.42	< 0.40	< 0.42	< 0.42	< 0.40	< 0.39	< 0.39	< 0.41	< 0.40	< 0.43	< 0.38	< 0.41
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																	
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 0.90	< 0.85	< 0.89	1.3 J	< 0.85	< 0.83	< 0.83	< 0.87	< 0.85	< 0.91	< 0.80	< 0.87
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.40	< 0.37	< 0.39	< 0.39	< 0.37	< 0.36	< 0.36	< 0.38	< 0.38	< 0.40	< 0.35	< 0.38
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.80	< 0.75	< 0.79	< 0.79	< 0.75	< 0.73	< 0.73	< 0.77	< 0.76	< 0.80	< 0.71	< 0.77
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.0	< 1.1	< 1.1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.0	< 1.1	< 0.98	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.1	< 1.2	< 1.2	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.2	< 1.1	< 1.1
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.2	< 1.3	< 1.3	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.3	< 1.1	< 1.2
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.78	< 0.74	< 0.77	< 0.78	< 0.73	< 0.72	< 0.72	< 0.75	< 0.74	< 0.79	< 0.70	< 0.75
Replacement Chemicals																	
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.4	< 1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.4	< 1.2	< 1.3
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.37	< 0.35	< 0.36	< 0.37	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.37	< 0.33	< 0.35
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.22	< 0.21	< 0.22	< 0.22	< 0.21	< 0.20	< 0.20	< 0.21	< 0.21	< 0.22	< 0.20	< 0.21
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.30	< 0.28	< 0.29	< 0.29	< 0.28	< 0.27	< 0.27	< 0.28	< 0.28	< 0.30	< 0.26	< 0.28
Combined Standard																	
Color, Field	Color-F	Field	none	-	-	Brown	clear	none	NA	NA	NA	NA	NA	NA	None	NA	none
Conductivity, Field	COND-F	Field	umhos/cm	-	-	569.7	588.64	647.16	NA	NA	NA	NA	NA	NA	788.9	733.44	908.72
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	4.9	6.83	5.88	NA	NA	NA	NA	NA	NA	8.71	8.84	9.53
Odor, Field	Odor-F	Field	none	-	-	None	none	none	NA	NA	NA	NA	NA	NA	None	NA	none
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	102.4	131	141.9	NA	NA	NA	NA	NA	NA	103.5	116.1	95.1
pH, Field	pH-F	Field	su	-	-	6.72	6.93	7	NA	NA	NA	NA	NA	NA	6.75	6.87	6.96
Temperature, Field	Temp-F	Field	deg C	-	-	8.74	11.05	15.16	NA	NA	NA	NA	NA	NA	8.75	10.81	14.05
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	22.2	18.5	NA	NA	NA	NA	NA	NA	NA	8.26	2.8	3.1
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type	Groundwater									
						Location ID	MW-07	MW-07	MW-07	MW-07	MW-08	MW-08	MW-08	MW-08	PW-01	PW-01
						Depth Interval										100 - 117 ft
						Sample Type Code	N	N	N	N	N	N	N	FD	N	N
						Sample Name	MW-07-202210	MW-07-202306	MW-07-202308	MW-07-202311	MW-08-202306	MW-08-202308	MW-08-202311	DUP-09-202311	PW-01-20210716	PW-01(100-117)
						Sample Date	10/11/2022	06/13/2023	08/29/2023	11/07/2023	06/13/2023	08/29/2023	11/07/2023	11/07/2023	07/16/2021	04/22/2021
						Sample Time	12:07	13:02	14:26	11:26	11:27	12:43	11:28	00:00	12:58	17:25
Carboxylic Acids																
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000		< 2.3	< 2.1	< 2.0	< 2.3	< 2.0	< 2.0	< 2.1	< 2.1	110	77
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-		< 0.48	< 0.42	< 0.42	< 0.48	< 0.41	4.5	< 0.42	< 0.42	480	300
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000		< 0.57	< 0.50	0.53	< 0.56	< 0.48	3.0	< 0.50	< 0.50	260	210
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-		< 0.24	< 0.22	< 0.21	< 0.24	< 0.21	1.8	< 0.21	< 0.22	140	100
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2		< 0.83	< 0.74	< 0.72	< 0.82	< 0.71	*2.2*	< 0.73	< 0.74	**170**	**100**
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3		< 0.26	< 0.23	< 0.23	< 0.26	< 0.22	< 0.23	< 0.23	< 0.23	*17*	*10*
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60		< 0.30	< 0.27	< 0.26	< 0.30	< 0.26	< 0.26	< 0.27	< 0.27	3.9	2.4
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600		< 1.1	< 0.95	< 0.93	< 1.1	< 0.91	< 0.92	< 0.94	< 0.95	< 0.97	< 1.1
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100		< 0.54	< 0.48	< 0.47	< 0.53	< 0.46	< 0.46	< 0.47	< 0.48	< 0.49	< 0.57
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-		< 1.3	< 1.1	< 1.1	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000		< 0.71	< 0.63	< 0.62	< 0.71	< 0.61	< 0.61	< 0.63	< 0.63	< 0.64	< 0.75
Sulfonic Acids																
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000		8.8	4.2	2.9	1.6 J	0.20 J	< 0.17	0.19 J	0.17 J	0.73 J	0.45 J
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-		< 0.29	< 0.26	< 0.25	< 0.29	< 0.25	< 0.25	< 0.26	< 0.26	< 0.27	< 0.31
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4		< 0.56	< 0.49	< 0.48	< 0.55	< 0.47	< 0.48	< 0.49	< 0.49	1.5 J	1.2 J
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-		< 0.19	< 0.16	< 0.16	< 0.18	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2		< 0.53	< 0.47	< 0.46	< 0.52	< 0.45	< 0.45	< 0.46	< 0.47	*6.6*	< 5.3 U
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-		< 0.36	< 0.32	< 0.31	< 0.36	< 0.31	< 0.31	< 0.32	< 0.32	< 0.33	< 0.38
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-		< 0.31	< 0.28	< 0.27	< 0.31	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.33
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-		< 0.95	< 0.84	< 0.82	< 0.94	< 0.81	< 0.81	< 0.83	< 0.84	< 0.86	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-		< 0.23	< 0.21	< 0.20	< 0.23	< 0.20	< 0.20	< 0.21	< 0.21	7.7	4.9
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-		< 2.4	< 2.2	< 2.1	< 2.4	< 2.1	18	< 2.1	< 2.2	1500	1100
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-		< 0.45	< 0.40	< 0.39	< 0.45	< 0.38	11	< 0.39	< 0.40	530	290
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2		< 0.96	< 0.85	< 0.83	< 0.95	1.9	< 0.82	1.3 J	< 0.85	1.8	*8.9*
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-		< 0.42	< 0.37	< 0.37	< 0.42	< 0.36	< 0.36	< 0.37	< 0.37	< 0.38	< 0.44
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2		< 0.85	< 0.75	< 0.74	< 0.84	< 0.72	< 0.73	< 0.75	< 0.75	< 0.77	< 0.90
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-		< 1.2	< 1.0	< 1.0	< 1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.1	< 1.2
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2		< 1.3	< 1.1	< 1.1	< 1.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.3
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-		< 1.4	< 1.2	< 1.2	< 1.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.4
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2		< 0.83	< 0.74	< 0.72	< 0.82	< 0.71	< 0.71	< 0.73	< 0.74	< 0.75	< 0.88
Replacement Chemicals																
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-		< 1.5	< 1.3	< 1.3	< 1.5	< 1.2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600		< 0.39	< 0.35	< 0.34	< 0.39	< 0.33	< 0.33	0.78 J	< 0.35	< 0.35	< 0.41
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-		< 0.23	< 0.21	< 0.20	< 0.23	< 0.20	< 0.20	< 0.21	< 0.21	< 0.21	< 0.25
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-		< 0.31	< 0.28	< 0.27	< 0.31	< 0.27	< 0.27	< 0.27	< 0.28	< 0.28	< 0.33
Combined Standard																
Color, Field	Color-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH, Field	pH-F	Field	su	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

						Sample Type	**Groundwater**									
						Location ID	PW-01	PW-01	PW-01	PZ-01	PZ-01	PZ-01	PZ-01	PZ-01	PZ-01	PZ-01	PZ-01
						Depth Interval	136.75 - 157.75 ft	157.5 - 178.5 ft	175.25 - 196.25 ft								
						Sample Type Code	N	N	N	N	N	N	N	N	N	N	N
						Sample Name	PW-01(136.75-157.75)	PW-01(157.5-178.5)	PW-01(175.25-196.25)	PZ-01-20210701	PZ-01-20210715	PZ-01-202201	PZ-01-202204	PZ-01-202207	PZ-01-202210	PZ-01-202306	PZ-01-202308
						Sample Date	04/22/2021	04/22/2021	04/22/2021	07/01/2021	07/15/2021	01/19/2022	04/12/2022	07/27/2022	10/12/2022	06/14/2023	08/30/2023
						Sample Time	14:41	13:08	10:55	13:04	12:53	14:47	18:55	11:14	10:05	10:32	12:38
Analytes	**CAS RN**	**Method**	**Units**	**ES**	**PAL**												
Carboxylic Acids																	
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	56	73	82	< 1.9	< 2.1	< 2.2	< 2.1	< 2.1	< 2.2	< 2.1	< 2.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	230	290	280	< 0.40	< 0.43	< 0.46	< 0.44	< 0.43	< 0.45	< 0.43	< 0.45
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	150	190	210	< 0.47	< 0.51	< 0.54	< 0.52	< 0.51	< 0.53	< 0.51	< 0.53
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	63	99	97	< 0.20	< 0.22	< 0.23	< 0.22	< 0.22	< 0.23	< 0.22	< 0.23
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	**62**	**100**	**100**	< 0.69	< 0.74	< 0.79	< 0.76	< 0.75	< 0.77	< 0.75	< 0.78
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	*5.0*	*9.2*	*8.9*	< 0.22	0.91 J	< 0.25	< 0.24	< 0.24	< 0.25	< 0.24	< 0.25
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	1.1 J	2.0	2.1	0.28 J	2.6	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.28
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.0	< 0.99	< 1.0	< 0.89	6.2	< 1.0	< 0.98	< 0.97	< 1.0	< 0.97	< 1.0
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.52	< 0.49	< 0.52	< 0.45	4.5	< 0.51	< 0.49	< 0.49	< 0.50	< 0.48	< 0.50
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.2	< 1.2	< 1.2	< 1.1	5.2	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.69	< 0.65	< 0.69	< 0.59	3.5	< 0.68	< 0.65	< 0.65	< 0.66	< 0.64	< 0.67
Sulfonic Acids																
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	0.40 J	0.67 J	0.52 J	< 0.16	< 0.17	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.28	< 0.27	< 0.28	< 0.24	< 0.26	< 0.28	< 0.27	< 0.27	< 0.27	< 0.26	< 0.27
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	0.82 J	0.87 J	1.0 J	< 0.46	< 0.50	< 0.53	< 0.51	< 0.50	< 0.52	< 0.50	< 0.52
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.18	< 0.17	< 0.18	< 0.15	< 0.17	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.51 U	< 5.3 U	< 5.3 U	< 0.44	< 0.47	< 0.50	< 0.48	< 0.48	< 0.49	< 0.47	< 0.49
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.35	< 0.33	< 0.35	< 0.30	< 0.32	< 0.34	< 0.33	< 0.33	< 0.34	< 0.33	< 0.34
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.30	< 0.29	< 0.30	< 0.26	< 0.28	< 0.30	< 0.29	< 0.28	< 0.29	< 0.28	< 0.29
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 0.92	< 0.87	< 0.91	< 0.79	< 0.84	< 0.90	< 0.86	< 0.86	< 0.88	< 0.85	< 0.88
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	3.0	4.5	4.2	< 0.19	< 0.21	< 0.22	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	680	1100	1200	< 2.0	< 2.2	< 2.3	< 2.2	< 2.2	< 2.3	2.5 J	< 2.3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	120	270	270	< 0.37	< 0.40	< 0.43	< 0.41	< 0.41	< 0.42	< 0.40	< 0.42
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols																
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	*4.4*	*4.0*	*5.2*	1.5 J	< 0.85	< 0.91	< 0.87	< 0.87	1.1 J	< 0.86	< 0.89
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.41	< 0.39	< 0.40	< 0.35	< 0.37	< 0.40	< 0.38	< 0.38	< 0.39	< 0.38	< 0.39
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.83	< 0.78	< 0.82	< 0.71	< 0.76	< 0.81	< 0.78	< 0.77	< 0.79	< 0.77	< 0.79
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.1	< 1.1	< 1.1	< 0.97	< 1.0	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2	< 1.2	< 1.1	< 1.2	< 1.1	< 1.2
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.3	< 1.3	< 1.3	< 1.1	< 1.2	< 1.3	< 1.2	< 1.2	< 1.3	< 1.2	< 1.3
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.81	< 0.76	< 0.80	< 0.69	< 0.74	< 0.79	< 0.76	< 0.75	< 0.77	< 0.75	< 0.78
Replacement Chemicals																
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.4	< 1.3	< 1.4	< 1.2	< 1.3	< 1.4	< 1.3	< 1.3	< 1.4	< 1.3	< 1.4
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.38	< 0.36	< 0.38	< 0.32	< 0.35	< 0.37	< 0.36	< 0.35	< 0.36	< 0.35	< 0.36
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.23	< 0.22	< 0.23	< 0.19	< 0.21	< 0.22	< 0.21	< 0.21	< 0.22	< 0.21	< 0.22
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.30	< 0.29	< 0.30	< 0.26	< 0.28	< 0.30	< 0.29	< 0.28	< 0.29	< 0.28	< 0.29
Combined Standard																
Color, Field	Color-F	Field	none	-	-	NA	NA	NA	NA	NA	None	clear	none	NA	NA	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA	NA	NA	NA	NA	623.2	570.82	613.87	NA	NA	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA	NA	NA	NA	NA	0.15	0.23	0.14	NA	NA	NA
Odor, Field	Odor-F	Field	none	-	-	NA	NA	NA	NA	NA	None	none	none	NA	NA	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA	NA	NA	NA	NA	28.3	-36.2	66.7	NA	NA	NA
pH, Field	pH-F	Field	su	-	-	NA	NA	NA	NA	NA	6.78	7.33	6.61	NA	NA	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA	NA	NA	NA	NA	7.69	11.37	14.24	NA	NA	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA	NA	NA	NA	NA	29.3	5.1	20	NA	NA	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

CAS RN = Chemical Abstracts Service Registry Number

NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard

NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit

Italics = detection equals or exceeds NR 140 PAL

Bold = detection equals or exceeds NR 140 ES

ng/L = nanograms per liter

mg/L = milligrams per liter

umhos/cm = micromhos per centimeter

ntu = nephelometric turbidity unit

mV = millivolts

su = standard units

- = standard not established

NA = not analyzed

Data Qualifiers

J = Estimated concentration

Table 6 - Groundwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	ES	PAL	Sample Type: Groundwater Location ID: PZ-01 Depth Interval: Sample Type Code: N Sample Name: PZ-01-202311 Sample Date: 11/08/2023 Sample Time: 11:40
Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	10,000	2,000	< 2.6
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-	-	< 0.52
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	150,000	30,000	< 0.62
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-	-	< 0.27
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	20	2	< 0.91
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	30	3	< 0.29
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	300	60	< 0.33
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	3,000	600	< 1.2
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	500	100	< 0.59
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-	-	< 1.4
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	10,000	2,000	< 0.78
Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	450,000	90,000	< 0.21
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-	-	< 0.32
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	40	4	< 0.61
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-	-	< 0.20
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	20	2	< 0.57
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-	-	< 0.39
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-	-	< 0.34
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-	-	< 1.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-	-	< 0.26
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-	-	< 2.7
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-	-	< 0.49
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols						
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	20	2	< 1.0
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-	-	< 0.46
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	20	2	< 0.93
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-	-	< 1.3
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	20	2	< 1.4
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-	-	< 1.5
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	20	2	< 0.91
Replacement Chemicals						
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-	-	< 1.6
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	3,000	600	< 0.43
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-	-	< 0.26
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-	-	< 0.34
Combined Standard						
Color, Field	Color-F	Field	none	-	-	NA
Conductivity, Field	COND-F	Field	umhos/cm	-	-	NA
Dissolved Oxygen, Field	DO-F	Field	mg/L	-	-	NA
Odor, Field	Odor-F	Field	none	-	-	NA
Oxidation Reduction Potential, Field	ORP-F	Field	mV	-	-	NA
pH, Field	pH-F	Field	su	-	-	NA
Temperature, Field	Temp-F	Field	deg C	-	-	NA
Turbidity, Field	Turb-F	Field	none	-	-	NA
Turbidity, Field	Turb-F	Field	ntu	-	-	NA
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-	-	NA

Notes:
CAS RN = Chemical Abstracts Service Registry Number
NR 140 ES = Proposed Wisconsin Administrative Code Chapter NR 140 enforcement standard
NR 140 PAL = Proposed Wisconsin Administrative Code Chapter NR 140 preventive action limit
Italics = detection equals or exceeds NR 140 PAL
Bold = detection equals or exceeds NR 140 ES
ng/L = nanograms per liter
mg/L = milligrams per liter
umhos/cm = micromhos per centimeter
ntu = nephelometric turbidity unit
mV = millivolts
su = standard units
- = standard not established
NA = not analyzed

Data Qualifiers
J = Estimated concentration

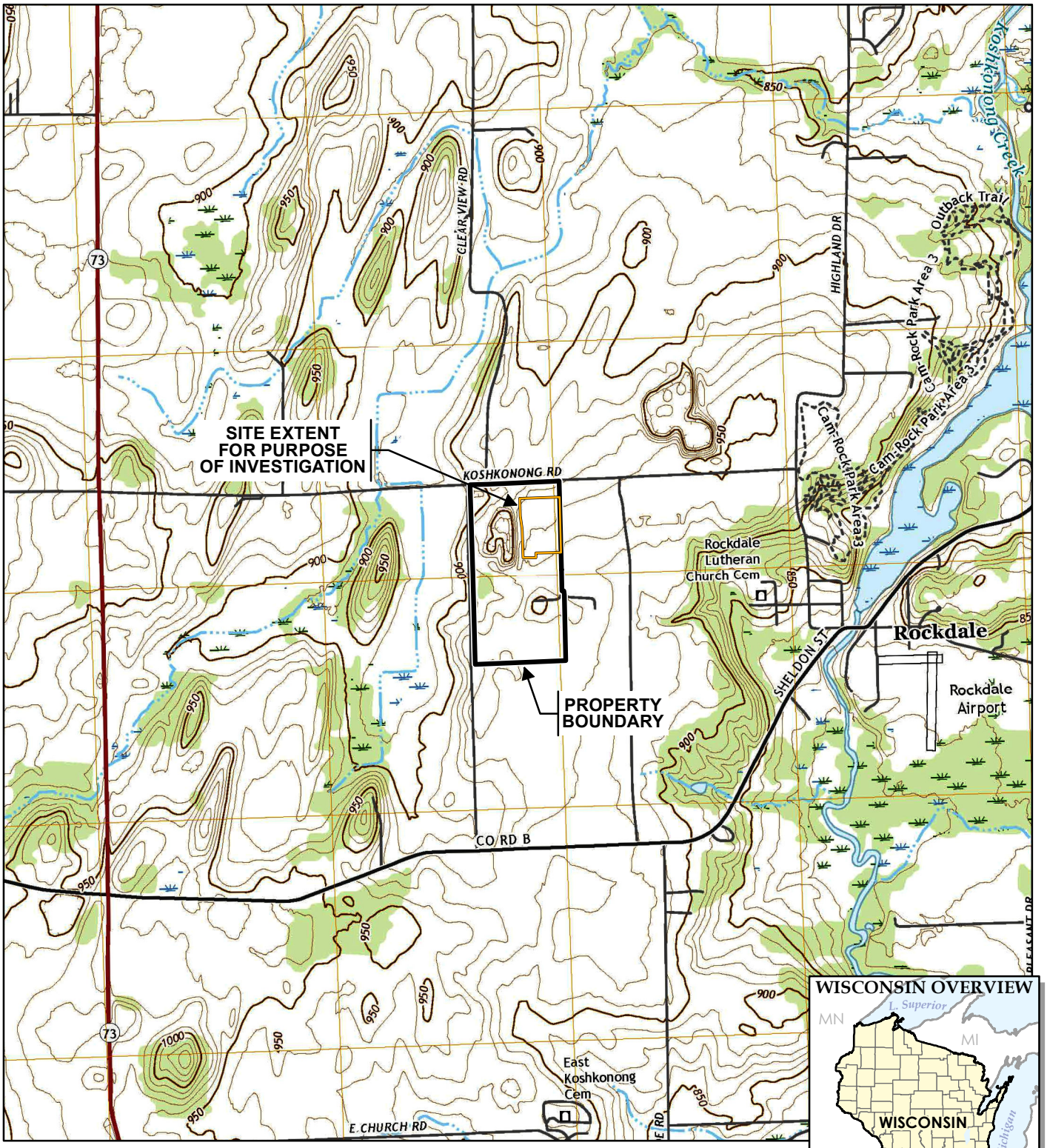
Table 7 - Surface Water and Stormwater Analytical Results
RockGen Energy, LLC
Cambridge, Dane County, Wisconsin
TRC Project #451482.0002.0000, BRRTS #02-13-587341

Analytes	CAS RN	Method	Units	SW Std.	Sample Type	Surface Water		Storm Water		
					Location ID	SUW-01	SUW-02	SW-01	SW-01	SW-01	SW-01
					Sample Type Code	N	N	N	N	FD	N
					Sample Name	SUW-01-202304	SUW-02-202304	SW-01-A-20210629	SW-01-B-20210629	DUP-02-20210629	SW-01-202403
					Sample Date	04/04/2023	04/05/2023	06/29/2021	06/29/2021	06/29/2021	3/14/2024
					Sample Time	10:00	13:00	10:35	12:15	00:00	13:45
Carboxylic Acids											
Perfluorobutanoic acid (PFBA)	375-22-4	E537 Mod	ng/L	-		12	13	< 2.0	6.4	< 2.0	<2.0
Perfluoropentanoic acid (PFPeA)	2706-90-3	E537 Mod	ng/L	-		28	32	2.0	25	2.0	2.1
Perfluorohexanoic acid (PFHxA)	307-24-4	E537 Mod	ng/L	-		21	22	4.3	19	4.1	<0.48
Perfluoroheptanoic acid (PFHpA)	375-85-9	E537 Mod	ng/L	-		21	22	1.6 J	18	1.4 J	1.7
Perfluorooctanoic acid (PFOA)	335-67-1	E537 Mod	ng/L	95		13	13	6.1	23	5.8	1.9
Perfluorononanoic acid (PFNA)	375-95-1	E537 Mod	ng/L	-		4.2	4.8	2.2	5.3	2.3	<0.22
Perfluorodecanoic acid (PFDA)	335-76-2	E537 Mod	ng/L	-		< 0.29	0.31 J	2.7	3.5	2.6	0.29 J
Perfluoroundecanoic acid (PFUnA)	2058-94-8	E537 Mod	ng/L	-		< 1.0	< 0.86	< 0.92	< 1.0	< 0.90	<0.91
Perfluorododecanoic acid (PFDoA)	307-55-1	E537 Mod	ng/L	-		< 0.51	< 0.43	0.86 J	0.93 J	0.93 J	<0.46
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	E537 Mod	ng/L	-		< 1.2	< 1.0	< 1.1	< 1.2	< 1.1	<1.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	E537 Mod	ng/L	-		< 0.68	< 0.57	< 0.61	< 0.66	< 0.60	<0.61
Sulfonic Acids											
Perfluorobutane sulfonic acid (PFBS)	375-73-5	E537 Mod	ng/L	-		< 0.19	< 0.16	< 0.17	< 0.18	< 0.16	<0.17
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	E537 Mod	ng/L	-		< 0.28	< 0.24	< 0.25	< 0.27	< 0.25	<0.25
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	E537 Mod	ng/L	-		< 0.53	< 0.45	< 0.48	< 0.52	< 0.47	<0.47
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	E537 Mod	ng/L	-		< 0.18	< 0.15	< 0.16	< 0.17	< 0.16	<0.16
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	E537 Mod	ng/L	8		< 0.50	< 0.42	1.5 J	1.5 J	1.2 J	0.74 J
Perfluorononane sulfonic acid (PFNS)	68259-12-1	E537 Mod	ng/L	-		< 0.34	< 0.29	< 0.31	< 0.34	< 0.30	<0.31
Perfluorodecane sulfonic acid (PFDS)	335-77-3	E537 Mod	ng/L	-		< 0.30	< 0.25	< 0.27	< 0.29	< 0.26	<0.27
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	E537 Mod	ng/L	-		< 0.90	< 0.76	< 0.81	< 0.88	< 0.79	<0.81
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	E537 Mod	ng/L	-		< 0.22	< 0.19	< 0.20	< 0.22	< 0.20	<0.20
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	E537 Mod	ng/L	-		< 2.3	< 2.0	16	44	16	<2.1
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	E537 Mod	ng/L	-		< 0.43	< 0.36	130	180	140	4.1
Sulfonamides, Sulfomidoacetic acids, Sulfonamidoethanols											
Perfluorooctane sulfonamide (PFOSA)	754-91-6	E537 Mod	ng/L	-		< 0.91	< 0.77	< 0.82	< 0.89	< 0.80	<0.81
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	E537 Mod	ng/L	-		< 0.40	< 0.34	< 0.36	< 0.39	< 0.35	<0.36
N-Ethylperfluorooctane sulfonamide (NEtFOSA)	4151-50-2	E537 Mod	ng/L	-		< 0.81	< 0.68	< 0.73	< 0.79	< 0.71	<0.72
N-Methyl perfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	E537 Mod	ng/L	-		< 1.1	< 0.94	< 1.0	< 1.1	< 0.98	<1.0
N-Ethyl perfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	E537 Mod	ng/L	-		< 1.2	< 1.0	< 1.1	< 1.2	< 1.1	<1.1
N-Methyl perfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	E537 Mod	ng/L	-		< 1.3	< 1.1	< 1.2	< 1.3	< 1.1	<1.2
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	E537 Mod	ng/L	-		< 0.79	< 0.67	< 0.71	< 0.77	< 0.70	<0.71
Replacement Chemicals											
Perfluoro-2-methyl-3-oxahexanoic acid (HFPO-DA)	13252-13-6	E537 Mod	ng/L	-		< 1.4	< 1.2	< 1.3	< 1.4	< 1.2	<1.2
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	E537 Mod	ng/L	-		< 0.37	< 0.31	< 0.33	< 0.36	< 0.33	<0.33
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	E537 Mod	ng/L	-		< 0.22	< 0.19	< 0.20	< 0.22	< 0.20	<0.20
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	E537 Mod	ng/L	-		< 0.30	< 0.25	< 0.27	< 0.29	< 0.26	<0.27
Combined Standard											
Total Suspended Solids (TSS)	TSS	SM2540D	mg/L	-		< 1.3	< 1.3	120	11	NA	28

Notes:
CAS RN = Chemical Abstracts Service Registry Number
SW Std. = NR 102/105/106 non-drinking water surface water standard
ng/L = nanograms per liter
mg/L = milligrams per liter

Data Qualifiers
J = Estimated concentration

Created by: S. Litwin 3/14/2024
Checked by: J. Ramey 10/1/2024



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

N

1 " = 2,000 '
1:24,000

0 2,000 4,000 FEET

TRC

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

S:\1-PROJECTS\RockGen_Energy_Center\CambridgeWI\435526\435526-001slm.mxd -- Saved By: BLEE on 4/2/2021, 11:37:23 AM



LEGEND

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

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.

N

0 350 700 Feet

1 " = 350 '

1:4,200

PROJECT:

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

TITLE:

SITE VICINITY MAP

DRAWN BY:	G. CORYELL	PROJ. NO.:	451482-001
CHECKED BY:	S. RADEMAKER		
APPROVED BY:	J. RAMEY		**FIGURE 2**
DATE:	APRIL 2024		

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

FILE NO.: 451482- IR -002_V ic inity mxd

TRC - GIS
Plot Date: 4/25/2024, 14:24:37 PM by GCORYELL - - LAYOUT ANSI B (11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: \\employees\gis\arcgispro\1-PROJECTS\RockGen\CambridgeWI\435526\437865-SIR-002_Vicinity.mxd



LEGEND

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

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. CONTOUR DATA FROM DANE COUNTY LAND INFORMATION OFFICE, 2017.
4. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.

N

0 125 250 Feet

1 " = 125 '

1:1,500

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

TITLE:
SITE TOPOGRAPHY

DRAWN BY:	G. CORYELL	PROJ. NO.:	451482-001
CHECKED BY:	S. RADEMAKER		
APPROVED BY:	J. RAMEY		**FIGURE 3**
DATE:	APRIL 2024		

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FILE NO.: 437865-SIR-003_Topo.mxd

TRC - GIS
Plot Date: 4/25/2024, 14:34:52 PM by GCORYELL -- LAYOUT: ANSI B (11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: \\employees\gis\arcgispro\1-PROJECTS\RockGen\CambridgeWI\435526\437865-SIR-003_Topo.mxd



LEGEND

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

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
4. UNDERGROUND UTILITIES FROM PRE-CONSTRUCTION DRAWINGS, ADJUSTED BASED ON ABOVEGROUND FEATURES. SEPTIC PIPING BASED ON SEPTIC SYSTEM PERMIT. ACTUAL UTILITY LOCATIONS MAY DIFFER FROM PRE-CONSTRUCTION PLANS.

N

0 125 250 Feet

1 " = 110 '

1:1,320

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

TITLE:
SITE LAYOUT MAP

DRAWN BY:	G. CORYELL	PROJ. NO.:	451482-001
CHECKED BY:	S. RADEMAKER		
APPROVED BY:	J. RAMEY		**FIGURE 4**
DATE:	APRIL 2024		

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Phone: 608.826.3600
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FILE NO.: 437865-SIR-004_SITE_LAYOUT.mxd

TRC - GIS
Plot Date: 4/26/2024, 08:09:34 AM by GCORYELL -- LAYOUT: ANSI B(11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: \\employees\gis\arcgispro\1-PROJECTS\RockGen\CambridgeWI\435526\437865-SIR-004_SITE_LAYOUT.mxd



LEGEND

- POWERED AUGER SOIL BORING (AUGUST 2023)
- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SURFACE SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- PIEZOMETER
- MULTIPORT WELL
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.

N

0 200 400 Feet

1 " = 200 '

1:2,400

PROJECT:

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

TITLE:

SITE INVESTIGATION OVERVIEW

DRAWN BY:	P. MARCOU	PROJ. NO.:	451482
CHECKED BY:	S. RADEMAKER		
APPROVED BY:	J. RAMEY		**FIGURE 5**
DATE:	NOVEMBER 2024		

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FILE NO.: 437865-SIR-005_Site_Investigation_Overview.mxd

TRC - GIS
Plot Date: 11/13/2024, 09:53:02 AM by PMARCOU -- LAYOUT: ANSI B(11"X17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: T:\1-PROJECTS\RockGen\Cambridge\WI435526\437865-SIR-005_Site_Investigation_Overview.mxd



LEGEND

- PIEZOMETER
- MONITORING WELL
- MULTIPORT WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (1 FT, FT AMSL)
- (884.57) GROUNDWATER ELEVATION (FT AMSL)
- APPROXIMATE AREA OF AFFF INSPECTION TESTING
- APPROXIMATE EXTENT OF SEPTIC MOUND
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.

N

0 200 400 Feet

1 " = 200 '

1:2,400

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

TITLE:
WATER TABLE MAP NOVEMBER 2023

DRAWN BY:	A. FOJTIK	PROJ. NO.:	451482
CHECKED BY:	S. LITWIN		
APPROVED BY:	J. RAMEY		**FIGURE 6**
DATE:	OCTOBER 2024		

TRC
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Madison, WI 53717
Phone: 608.826.3663
www.trccompanies.com

FILE NO.: 437865-SIR-007_Water_Table_NOV2023.mxd

TRC - GIS
Plot Date: 10/28/2024, 09:32:17 AM by AFOJTIK -- LAYOUT: ANSI B(11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: T:\1-PROJECTS\RockGen\CambridgeWI\435526\437865-SIR-007_Water_Table_NOV2023.mxd



LEGEND

- MONITORING WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SURFACE SOIL SAMPLE
- POWERED AUGER SOIL BORING (AUGUST 2023)
- STORM SEWER INLET
- DRAINAGE CHANNEL*
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SITE EXTENT FOR PURPOSE OF INVESTIGATION

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

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

NOTES

1. BASE MAP IMAGERY FROM DANE COUNTY, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.

N

0 40 80
Feet

1 " = 82 '
1:982

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

TITLE:
SOIL SAMPLING RESULTS MAP

DRAWN BY:	P. MARCOU	PROJ. NO.:	451482
CHECKED BY:	S. RADEMAKER		
APPROVED BY:	J. RAMEY		**FIGURE 7**
DATE:	NOVEMBER 2024		

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Phone: 608.826.3600
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FILE NO.: 437865-SIR-008_SS_Results.mxd

TRC - GIS
Plot Date: 11/13/2024, 09:32:49 AM by PMARCOU -- LAYOUT: ANSI B(11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: T:\1-PROJECTS\RockGen\Cambridge\WI435526\437865-SIR-008_SS_Results.mxd



LEGEND

- PIEZOMETER
- MONITORING WELL
- MULTIPORT WELL
- GEOPROBE SOIL BORING (APRIL 2021)
- HAND AUGER SOIL BORING (MAY 2021)
- SOIL SAMPLE
- POTABLE WELL
- DEEP PRODUCTION WELL
- STORM SEWER INLET/OUTLET
- DRAINAGE CHANNEL*
- GROUNDWATER FLOW DIRECTION
- (130) PFOA CONCENTRATION (ng/L)
- PFOA ISOCONTOUR (ng/L)
- 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, 2022.
2. PARCEL BOUNDARIES ACQUIRED FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE PARCEL DATA.
3. * = DRAINAGE CHANNEL APPEARS TO BIFURCATE; MAP SHOWS CHANNEL THAT APPEARS TO BE PRIMARY DRAINAGE PATHWAY.
4. ng/L = NANOGRAMS PER LITER

N

0 200 400 Feet

1 " = 200 '
1:2,400

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

TITLE:
PFOA ISOCONCENTRATIONS NOVEMBER 2023

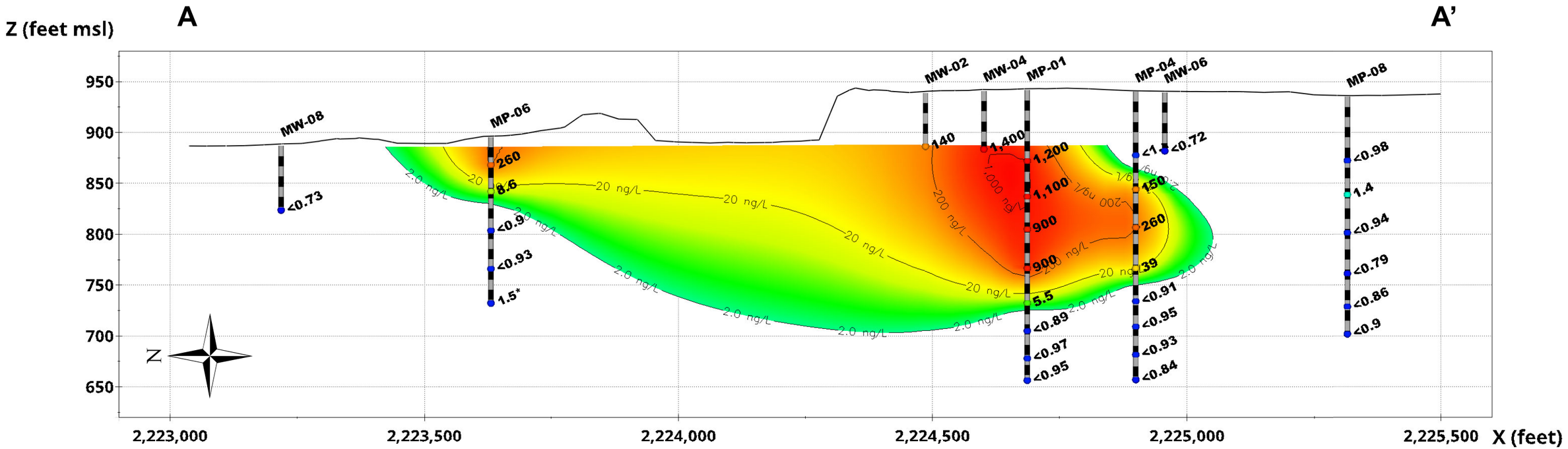
DRAWN BY:	A. FOJTIK	PROJ. NO.:	457746
CHECKED BY:	S. RADEMAKER		
APPROVED BY:	J. RAMEY		**FIGURE 8**
DATE:	NOVEMBER 2024		

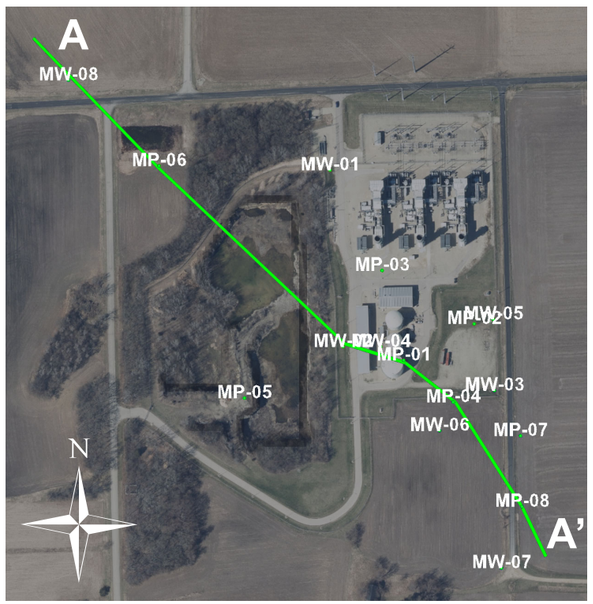
TRC
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Madison, WI 53717
Phone: 608.826.3663
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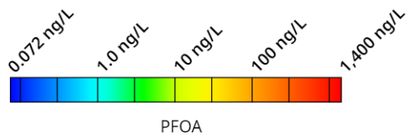
FILE NO.: 457746-008_PFOA.mxd

TRC - GIS
Plot Date: 11/13/2024, 10:56:24 AM by AFOJTIK -- LAYOUT:ANSI B(11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: T:\1-PROJECTS\RockGen\Cambridge\Wi\457746\MXD\457746-008_PFOA.mxd

TRC - GIS







NOTES

PFOA = Perfluorooctanoic acid

(*) = Concentration attributed to well construction cross-contamination. Data not used in the model calculations.

CTech Earth Volumetric Studio® (EVS) software using kriging interpolation methods was utilized to estimate the extents of PFOA in groundwater.

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

TITLE:
CROSS-SECTION - PFOA IN GROUNDWATER NOVEMBER 2023

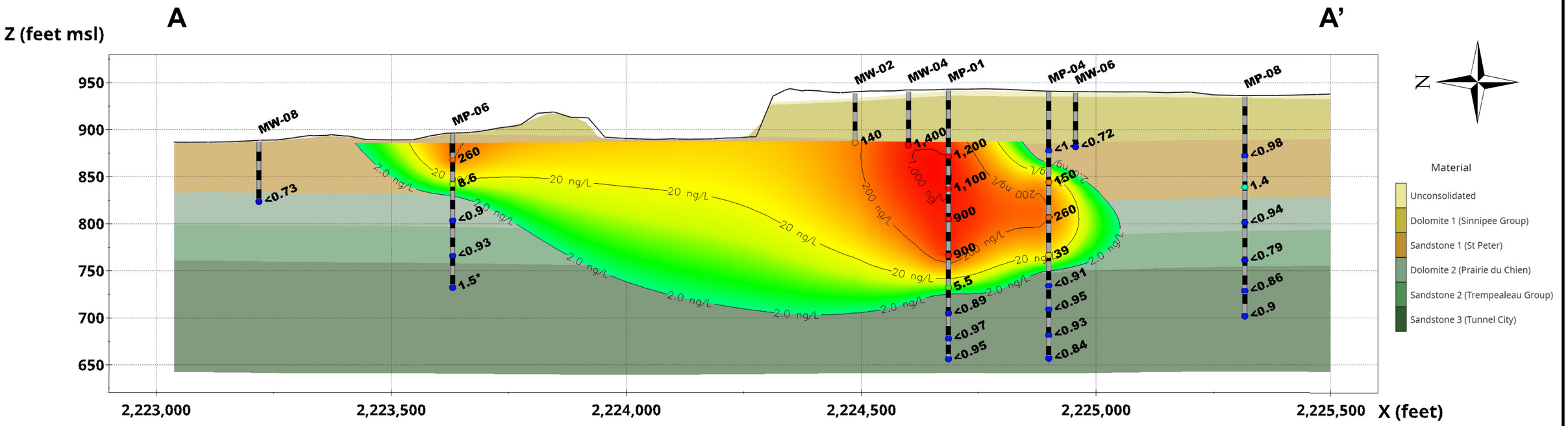
DRAWN BY:	M.SELLWOOD	PROJ. NO.:	451482
CHECKED BY:	S. LITWIN		
APPROVED BY:	J. RAMEY		**FIGURE 9**
DATE:	NOVEMBER 2024		

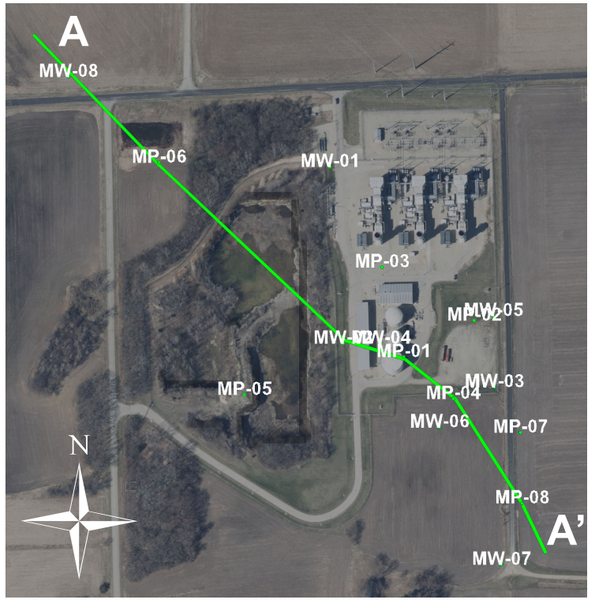
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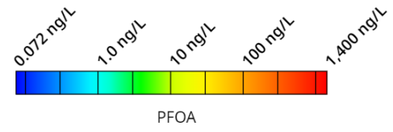
FILE NO.: 437865-SIR-007_Water_Table_NOV2023.mxd

Plot Date: 10/28/2024, 09:32:17 AM by AFOJTIK -- LAYOUT: ANSI B(11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: T:\1-PROJECTS\RockGen\Cambridge\WI\435526\437865-SIR-007_Water_Table_NOV2023.mxd

TRC - GIS







NOTES

PFOA = Perfluorooctanoic acid

(*) = Concentration attributed to well construction cross-contamination. Data not used in the model calculations.

CTech Earth Volumetric Studio® (EVS) software using kriging interpolation methods was utilized to estimate the extents of PFOA in groundwater.

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

TITLE:
CROSS-SECTION - PFOA IN GROUNDWATER NOVEMBER 2023

DRAWN BY:	M.SELLWOOD	PROJ. NO.:	451482
CHECKED BY:	S. LITWIN		
APPROVED BY:	J. RAMEY		**FIGURE 10**
DATE:	NOVEMBER 2024		

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FILE NO.: 437865-SIR-007_Water_Table_NOV2023.mxd

Plot Date: 10/28/2024, 09:32:17 AM by AFOJTIK -- LAYOUT: ANSI B (11"x17") **Coordinate System:** NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US) **Map Rotation:** 0
Path: T:\1-PROJECTS\RockGen\Cambridge\WI\435526\437865-SIR-007_Water_Table_NOV2023.mxd

Appendix A: Soil Boring and Well Documentation

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-27

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357808 N, 2222196 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 39.960" Long 89° 3' 7.080"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, crumbly, grass roots present.	CL									Power hand auger
			1.0											
			1.5	End of boring at 1.5 ft bgs										

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

Signature: Marshal Tofte
Firm: TRC Companies, 999 Fourier Drive Suite 101 Madison, WI 53717
Tel: (608) 826-3600
Fax:

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-28

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357793 N, 2222117 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 39.810"
Long 89° 3' 8.140"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5 1.0 1.5	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, crumbly, grass roots present.	CL									Power hand auger
				End of boring at 1.5 ft bgs										

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

Signature	Firm	
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Tel: (608) 826-3600 Fax:

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-29

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357630 N, 2222208 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 38.190" Long 89° 3' 6.940"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, crumbly, grass roots present.	CL									Power hand auger
			1.0											
			1.5	End of boring at 1.5 ft bgs										

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

Signature: Marshal Tofte
Firm: TRC Companies, 999 Fourier Drive Suite 101 Madison, WI 53717
Tel: (608) 826-3600
Fax:

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357629 N, 2222124 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 38.190" Long 89° 3' 8.080"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, crumbly, grass roots present.	CL									Power hand auger
			1.0											
			1.5	End of boring at 1.5 ft bgs										

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

Signature: Marshal Tofte
Firm: TRC Companies, 999 Fourier Drive Suite 101 Madison, WI 53717
Tel: (608) 826-3600
Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-31

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357676 N, 2222047 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 38.670" Long 89° 3' 9.100"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5 1.0 1.5	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, crumbly, grass roots present.	CL									Power hand auger
				End of boring at 1.5 ft bgs										

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

Signature *Marshal Tofte* Firm TRC Companies
999 Fourier Drive Suite 101 Madison, WI 53717
Tel: (608) 826-3600 Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-32

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357731 N, 2222047 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 39.210" Long 89° 3' 9.100"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5 1.0 1.5	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, crumbly, grass roots present.	CL									Power hand auger
				End of boring at 1.5 ft bgs										

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Signature *Marshal Tofte* Firm TRC Companies
999 Fourier Drive Suite 101 Madison, WI 53717
Tel: (608) 826-3600 Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-33

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357722 N, 2222103 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 39.110"
Long 89° 3' 8.340"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5	**FAT CLAY (CH)**, dark brown (7.5YR 3/2), no odor, wet, cohesive.	CH									Power hand auger
			1.0	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, cohesive.	CL									
			1.5	End of boring at 1.5 ft bgs										

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

Signature	Firm	
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Tel: (608) 826-3600 Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		SB-34

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Marshal Tofte TRC	8/29/2023	8/29/2023	Power Hand Auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	4.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357673 N, 2222266 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 38.610" Long 89° 3' 6.160"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	18 18		0.5	**FAT CLAY (CH)**, dark brown (7.5YR 3/2), no odor, wet, cohesive.	CH									Power hand auger
			1.0	**LEAN CLAY (CL)**, dark brown (7.5YR 3/2), no odor, moist, cohesive.	CL									
			1.5	End of boring at 1.5 ft bgs										

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

Signature	Firm	
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Tel: (608) 826-3600 Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-01

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	11/5/2021	11/8/2021	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-01	Feet MSL	941.5 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 356976 N, 2222998 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 31.600" Long 89° 2' 56.400"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 48		0	**Topsoil**, Clay with minor silt, gravel, and cobbles; moist, no odor, loose.										
			5	**Gravel with minor silt (GM2A)**, Conglomerate gravel with cobbles and silt; dry, no odor, loose; Yellowish Brown (10YR 5/4).										
2 CS	120 36			**Dolomite (DO)**, Fossiliferous dolomite, low recovery; Light Yellowish Brown (10YR 6/4).										
			10											
3 CS	120 112		15	SAA										
			20											
4 CS	120 120		25	SAA										
				SAA, Dark Gray (10YR 4/1).										
			30	SAA, Light Yellowish Brown (10YR 6/4).										
			35											
5 CS	120 120			SAA, Gray (10YR 5/1).										
			40											
				SAA, Light Yellowish Brown (10YR 6/4).										
6 CS	120 12		45	SAA, Light Brownish Gray (10YR 6/2); little recovery.										
			50											
7 CU	120		55	SAA.										No core returned, all return fluid
			60	**Sandstone (SS)** , Presumed sandstone based upon nearby soil borings and change in color of return fluids.										

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

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-01 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
														with rock fragments; not enough material to characterize at 55 ft BGS.
8 CU	120		65	SAA										
			70											
9 CU	120		75	SAA										
			80											
10 CU	120		85	SAA										
			90											
11 CU	120		95	SAA										
			100											
12 CU	120		105	SAA.										
			110											
13 CU	120		115	**Dolomite (DO)**, Dolomite, Light Gray (2.5YR 7/2).										
			120											
14 CU	120		125	SAA										
			130											
15 CU	120		135	SAA										
			140											
16 CU	120		145	SAA.										
			150	**Sandstone (SS)**, Yellow (2.5YR 7/8).										
17 CU	120		155											
			160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-01 Use only as an attachment to Form 4400-122. Page 3 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			165	SAA										
18 CU	120		170	**Dolomite (DO)** , Presumed dolomite given nearby soil borings and change in color of returns to White (5YR 8/1).										
19 CU	120		175											
			180	SAA										
20 CU	120		185											
			190	SAA										
21 CU	120		195											
			200	SAA										
22 CU	120		205											
			210	**Sandstone (SS)** , Presumed sandstone given nearby soil borings and change in color of returns to Light Gray (5YR 7/1) with small amounts of Reddish Yellow (5YR 7/8) and Very Pale Brown (10YR 8/2).										
23 CU	120		215											
			220	SAA										
24 CU	120		225											
			230	SAA										
25 CU	120		235											
			240	SAA										
26 CU	120		245											
			250	Return Fluids become Light Reddish Brown (5YR 6/4).										
27 CU	120		255											
			260											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-01 Use only as an attachment to Form 4400-122. Page 4 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			265	SAA										
28 CU	120		270	SAA										
29 CU	120		275											
			280	SAA										
30 CU	120		285											
			290	SAA										
31 CU	60		295											
			300	End of Boring at 300 ft BGS. 0-55 ft logged by Scott Litwin. 55-300 ft logged by Aaron Sobbe.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-01X

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	10/26/2021		rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-01X	Feet MSL	Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 30		0	**POORLY GRADED GRAVEL WITH SAND (GP)**, mostly coarse angular gravel, some cobbles, little sand, few silt, Yellowish Brown (10YR 5/4), no odor, moist, loose.										
2 CS	108 30		5	**Dolomite (DO)**, Lots of trace fossil burrows, Light Yellowish Brown (10YR 6/4),										
			10											
3 CS	120 120		15	**Dolomite (DO)**, Pale Yellow (2.5Y 7/4).										
			20											
4 CS	240 120		25	SAA										
			30											
			35	SAA, Gray (2.5Y 5/1).										
			40											
5 CS	240 54		45	SAA, Light Yellowish Brown (2.5YR 6/3).										
			50											
			55											
			60	**Sandstone (SS)**,										Driller noted a change in

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

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-01X Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			65											hardness around 57 ft BGS; presumed to be sandstone. Driller noted no recovery from 65-85 ft BGS; also noted a much harder texture at 78 ft BGS.
6 CS	240 0			SAA.										
			70											
			75											
			80											
7 CS	120 0		85	No recovery										
			90											
8 CS	240 0		95	No recovery.										No recovery, driller notes that it feels like sandstone. Drilling mud consists of approximately 75 gallons of Quik Gel per 300 gallons of water.
			100											
			105	No recovery.										
			110											
9 CS	240 0		115	No recovery										
			120											
			125	No recovery.										
			130											
10 CS	240 24		135	**Sandstone (SS)** , Light gray (10YR 7/2) with some Reddish Yellow (5YR 6/6) and Brownish Yellow (10YR 6/6) fine to medium-grained sandstone.										
			140											
			145	SAA.										
			150											
11 CS	240 60		155	SAA.										Driller noted changing textures between 152-155 ft BGS.
			160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-01X Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			165	**Dolomite (DO)**, Grayish Brown (10YR 5/2)										Driller noted hard material between 155-159 ft BGS; hard material ended at 159 ft BGS. Driller noted few inches to a foot of white chert at 167 ft BGS. Driller reported material as "soft" from 171-175 ft BGS. Driller noted material as "hard" from 175-185 ft BGS.
			170	SAA, vuggy dolomite; looks like white mineralization in vugs and fractures of the dolomite.										
12 CS	240 72		175	Dolomite, SAA, Light Yellowish Brown (10YR 6/4).										
			180	**Sandstone (SS)** , Light gray (10YR 7/1) to Very Pale Brown (10YR 7/3), fine to medium-grained										
			185	**Sandy Dolomite (DOS)** , Light Yellowish Brown (10YR 6/4) with small (<1') areas of Dark Grayish Green (5GY 4/2) fine to medium-grained										
			190	**Sandstone (SS)** , fine to medium-grained Light Brownish Gray (10YR 6/2) with some Grayish Green (5GY 5/2).										
13 CS	240 36		195											Little to no drilling return fluid beginning with the run at 195 ft BGS.
			200											
			205	SAA										
			210											
14 CS	240 60		215	SAA, with fine laminations, possibly interbedded fine-grained sandstone and dolomite.										Driller noted alternating hard and soft layers.
			220											
			225	SAA, fine-grained sandstone Light Gray (10YR 7/2) and Pinkish Gray (5YR 6/2), burrows present.										
			230											
			235	SAA, Reddish Brown (2.5YR 4/3). End of boring at 235 ft BGS. Logged by Lydia Auner.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Al Sizemore Cascade	11/4/2021	11/5/2021	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-02	Feet MSL	943.5 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357097 N, 2223232 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 32.800"
Long 89° 2' 53.200"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	84		0	**Topsoil**										7-inch casing and 6-inch core barrel to 57 ft BGS.
CS	84			**Silty Clay**, Silty Clay, Dark Yellowish Brown (10YR 3/4), moist.										
			5	**Sandy Gravel**, Well-graded sandy gravel, dry, loose, Yellow (10YR 7/6).										
2	120			SAA, Light Gray (10YR 7/2).										
CS	120		10	**Dolomite**, Dolomite, Gray (GLEY1 8/N).										
			15											
3	120			SAA, Light Yellowish Brown (10YR 6/4).										
CS	120		20											
			25											
4	120													
CS	120		30	SAA, Gray (10YR 5/1), Fossils present.										
				SAA, Light Yellowish Brown (10YR 6/4).										
				SAA, Light Gray (10YR 7/1) layered with Gray (10YR 5/1).										
			35	SAA, Light Yellowish Brown (10YR 6/4).										
5	120			SAA, alternating Light Gray (10YR 7/1) and Gray (10YR 5/1).										
CS	60		40	SAA, Light Yellowish Brown (10YR 6/4).										
			45											
6	120													
CS	108		50	SAA.										
			55											
7	120			**Sandstone (SS)** , Medium to coarse-grained sandstone, Yellow (10YR 7/1).										6-inch casing and 4.25-inch
CS	84		60											

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

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-02 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			65											core barrel to 57 ft BGS.
8 CS	120 12		70	SAA, Medium to fine-grained sandstone, Brownish Yellow (10YR 6/8).										
			75											
9 CS	120 0		80	SAA.										
			85	No recovery.										
10 CS	120 0		90	**Dolomite (DO)**, Dolomite, Pinkish White (7.5YR 8/2).										
			95											
11 CU			100	SAA.										Begin hammer drilling due to rig failure (core barrel stuck); Sample color changes refer to return water
			105	SAA.										
			110											
			115	SAA.										
			120											8-inch casing was overdrilled to approximately 120 ft BGS during removal of initial casing.
			125	SAA.										
			130											
			135	SAA, White (2.5YR 8/1).										
			140											
			145	SAA, Gray (10YR 7/1.										
			150											
			155											
			160	**Sandstone (SS)** , Sandstone, Pale Brown (10YR 6/3).										

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-02 Use only as an attachment to Form 4400-122. Page 3 of 4

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			165	SAA.										
			170											
			175	SAA.										
			180											
			185	SAA.										
			190											
			195	SAA.										
			200											
			205	SAA.										
			210											
			215	SAA.										
			220											
			225	SAA.										
			230											
			235	SAA.										
			240											
			245	SAA.										
			250											
			255	SAA, Light Gray (10YR 7/2), fine-grained sandstone.										
			260											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-02 Use only as an attachment to Form 4400-122. Page 4 of 4

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			265	SAA.										
			270											
			275	SAA.										
			280											
			285	SAA.										
			290											
			295	SAA.										
			300	End of Boring at 300 Ft BGS. Logged by Ross Hartwick.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-03

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	11/16/2021	11/17/2021	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-03	Feet MSL	934.9 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357274 N, 2222927 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 34.600" Long 89° 2' 57.300"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 48		0	**Gravel with fine sand and cobbles (GWP2)**, Conglomerate gravel with cobbles and fine sand; dry, no odor, loose; Yellowish Brown (10YR 5/4)										Soil boring begins with 6-inch casing in 8-inch borehole.
2 CS	120 72		5	**Dolomite (DO)** , Dolomite, Light Yellowish Brown (10YR 6/4)										
3 CS	120 48		15	SAA.										
4 CS	120 60		25	SAA.										
5 CS	120 112		35	SAA, Yellow (10YR 7/6)										
			40	SAA, Light Yellowish Brown (10YR 6/4)										
6 CS	120 112		45											
			50	SAA.										
7 CU	120		55											Switch to hammer drilling at 55
			60											

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

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-03 Use only as an attachment to Form 4400-122. Page 2 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Sandstone (SS) , Drilling feels like sandstone; no recovery, return fluids are Light Brown										ft BGS.
8 CU	120		65											
			70	SAA.										
9 CU	120		75											
			80	SAA.										
10 CU	120		85											
			90	SAA.										
11 CU	120		95											
			100	SAA.										
12 CU	120		105											
			110	SAA.										
13 CU	120		115	**Dolomite**, return fluids are Light Brownish Gray										
			120											
14 CU	120		125	SAA.										
			130											
15 CU	120		135	SAA.										
			140											
16 CU	120		145	SAA.										
			150	SAA, return fluids are Light Gray										
17 CU	120		155											
			160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-03 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			165	SAA.										
18 CU	120		170											
			175	SAA.										
19 CU	120		180											
				Sandstone (SS) , Presumed sandstone given nearby soil borings and change in color of return fluids to light brown.										
20 CU	120		185											
			190	SAA.										
21 CU	120		195											
			200	SAA.										
22 CU	120		205											
			210	SAA.										
23 CU	120		215											
			220	SAA.										
24 CU	120		225											
			230	SAA.										
25 CU	120		235	SAA, change in color of returns to Reddish Brown (5YR 5/4).										
			240											
26 CU	120		245	SAA.										
			250											
27 CU	120		255	SAA.										
			260											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-03 Use only as an attachment to Form 4400-122. Page 4 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
28 CU	120		265	SAA.										Drillers lost return fluid; increased the drilling mud thickness.
			270											
29 CU	120		275	SAA.										
			280											
30 CU	120		285	SAA.										
			290											
31 CU	60		295	SAA.										
			300	End of Boring at 300 ft BGS. Scott Litwin logged this soil boring outside of the 195-270 ft BGS interval, which was logged by Marshal Tofte.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-04

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	11/29/2021	12/2/2021	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-04	Feet MSL	940.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 356838 N, 2223163 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 30.200" Long 89° 2' 54.200"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	60 60		0	**Topsoil**, Clay, Dark Brown (10YR 3/3).										Soil boring begins with 6-inch casing in 8-inch borehole.
2 CS	180 156		5	**Dolomite (DO)**, Light Yellowish Brown (10YR 6/4).										
			10											
			15											
			20	SAA.										
3 CS	120 84		25											
			30	SAA.										
4 CU	0		35											Begin hammer drilling due to rig failure; sample color changes refer to color of the return fluids.
			40	SAA. SAA, Gray (10YR 5/1).										
5 CU	0		45											
			50	SAA.										
6 CU	0		55											
			60	**Sandstone (SS)** , Presumed sandstone given nearby soil										

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

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

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-04 Use only as an attachment to Form 4400-122. Page 2 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 CU	0		65	borings and change in color of returns to Brownish Yellow (10YR 6/6).										
				SAA.										
8 CU	0		70											
			75	SAA.										
9 CU	0		80											
			85	SAA.										
10 CU	0		90											
			95	SAA.										
11 CU	0		100											
			105	**Dolomite (DO)** , Presumed dolomite given nearby soil borings and change in color of returns to Light Gray (10YR 7/1).										
12 CU	0		110											
			115	SAA.										
13 CU	0		120											
			125	SAA.										
14 CU	0		130											
			135	SAA.										
15 CU	0		140											
			145	SAA.										
16 CU	0		150	SAA.										Lost return fluids at 150 ft BGS.
			155											
			160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-04 Use only as an attachment to Form 4400-122. Page 3 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 CU	0		165	SAA.										
			170	SAA.										
18 CU	0		175	SAA.										
19 CU	0		180											
			185	SAA.										
20 CU	0		190											
			195	SAA.										
21 CU	0		200											Lost return fluids at 204 ft BGS.
			205	SAA. SAA.										
22 CU	0		210											
			215	SAA.										
23 CU	0		220											
			225	SAA.										
24 CU	0		230											
			235	SAA.										
25 CU	0		240	**Sandstone (SS)** , Presumed sandstone given nearby soil borings and change in color of returns to Reddish Brown (5YR 5/4).										
			245											
26 CU	0		250											
			255	SAA.										
			260											

State of Wisconsin
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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-04 Use only as an attachment to Form 4400-122. Page 4 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
27 CU	0		265	SAA.										
28 CU	0		270											
			275	SAA.										
29 CU	0		280											
			285	SAA.										
30 CU	0		290											
			295	SAA.										
31 CU	0			End of boring at 298 ft BGS. Logged by Scott Litwin.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-05

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	12/8/2021	12/13/2021	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-05	Feet MSL	919.6 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 356851 N, 2222470 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 30.500"
Long 89° 2' 3.500"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CU	60		0	**Dolomite (DO)** , Dolomite, Light Yellowish Brown (10YR 6/4).										Soil boring begins with 6-inch casing in 8-inch borehole; some returns are traveling to the surface via bedrock fractures.
2 CU	120		5											
			10	SAA.										
			15											
3 CU	120		20	SAA.										
			25											
4 CU	120		30	**Sandstone (SS)** , Sandstone, fine to medium-grained.										End of 8-inch casing at 30 ft BGS.
			35											
5 CU	120		40	SAA.										
			45											
6 CU	120		50											Drilling quickly with little resistance at 55 ft BGS.
			55	SAA,										
			60											

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

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

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-05 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7 CU	120		65	SAA.										
8 CU	120		70											
			75	SAA.										
9 CU	120		80											
			85	SAA.										
10 CU	120		90											
			95	SAA.										
11 CU	120		100	**Dolomite (DO)** , Return fluids are buff.										Return fluids have stopped traveling to the surface via bedrock fractures; Driller reports it is "drilling pretty well," at 100 ft BGS. Driller reports it is "still drilling really well," at 115 ft BGS.
			105											
12 CU	120		110	SAA.										
			115	SAA.										
13 CU	120		120	SAA.										
			125											
14 CU	120		130	SAA.										
			135											
15 CU	120		140	SAA.										Driller reports it is "Drilling a bit harder," at 145 ft BGS.
			145	SAA.										
16 CU	120		150	SAA.										
			155											
			160											

State of Wisconsin
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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-05 Use only as an attachment to Form 4400-122. Page 3 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
17 CU	120		165	SAA.										Return fluids momentarily return to the surface via fractures at 160 ft BGS.
18 CU	120		170	SAA.										
19 CU	120		180	SAA.										
20 CU	120		190	SAA.										Driller reports that it is "drilling hard," at 195 ft BGS.
			195	SAA, return fluids remain buff.										
21 CU	120		200	**Sandstone (SS)** , fine to medium-grained; change in color of returns to Reddish Brown (5YR 5/4).										Driller reports the subsurface is, "hard, the drill is really working to advance." Return fluids are partially into the tank, partially to the surface via bedrock fractures at 200 ft BGS.
22 CU	120		210	SAA.										
23 CU	120		220	SAA.										
24 CU	120		230	SAA.										
25 CU	120		240	SAA.										
26 CU	120		250	SAA, maroon sandy return fluid continues.										
			260											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-05 Use only as an attachment to Form 4400-122. Page 4 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
27 CU	120		265	SAA.										
28 CU	120		270 275	SAA.										Drillers broke a rod at 273 ft BGS and then broke their retrieval bit in the first removal attempt. Drillers advanced to 279 ft before retrieving broken material.
				End of initial boring at 273 ft BGS. End of boring following broken component retrieval at 279 ft BGS. Soil boring log completed by Marshal Tofte.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	4/24/2023	5/2/2023	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-06	Feet MSL	895.4 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357620 N, 2222187 E Ⓢ/C/N
NW 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 38.100" Long 89° 3' 7.230"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CU	120 120		0	**TOPSOIL**, organics present, Dark Brown (10YR 3/3), moist, no odor.										8-inch borehole from 0-17 ft bgs. 6-inch borehole from 17-178.5 ft bgs. Alternated drilling 20 feet with a 4-inch hammer bit with advancing 20 feet of casing 6-inch casing. Drilling mud is 75 gallons of Quik Gel per 300 gallons of water. All drilling returns are fluid with rock fragments; not enough material to characterize at 17 ft BGS. Driller notes, "the subsurface is mostly soft with a few hard intervals." Driller notes, "the subsurface is mostly hard with a few soft intervals." Driller notes, "drilling hard."
				SILTY LEAN CLAY (CL-ML), trace fine gravel, Brownish Yellow (10YR 6/6), generally soft, moist, no odor.	CL-ML									
2 CU	84 84		10	**WELL GRADED SAND (SW)**, mostly medium-grained, subrounded sand, few fine to coarse subrounded gravel, few silt, Yellowish Brown (10YR 5/4), no odor, moist, loose.	SW									
3 CU	120 120		20	**POORLY GRADED SAND (SP)**, mostly medium-grained, subrounded sand, Yellowish Brown (10YR 5/4), no odor, moist, loose. Drilling return fluids are Light Brownish Gray (10YR 6/2).	SP									
4 CU	120 120		30											
5 CU	120 120		40	**DOLOMITE (DO)**, presumed to be dolomite. Drilling return fluids are Light Brownish Gray (10YR 6/2).										
6 CU	120 120		50	Drilling return fluids are Light Gray (10YR 7/1).	DO									
7 CU	120 120		60	Drilling return fluids are Grayish Brown (10YR 5/2).										

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

Signature	Firm	
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Tel: (608) 826-3600 Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-06 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			65											Driller notes, "drilling hard; softer in bottom 2 feet."
8 CU	120 120		70	Drilling return fluids are Light Gray (10YR 7/1).										Driller notes, "very stiff." Driller notes, "very stiff."
			75		DO									
9 CU	120 120		80											Driller notes, "very stiff."
			85											
10 CU	108 108		90											While attempting to drill from 87-97 ft bgs, casing broke at 60 ft bgs. After tripping out and removing and replacing the broken casing, the rig head broke when drillers attempted to begin advancing again at 96 ft bgs.
			95	**POORLY GRADED SAND (SP)**, drilling return fluids are Light Brownish Gray (10YR 6/2).										
11 CU	120 120		100	Drilling return fluids are Light Brownish Gray (10YR 6/2).										
			105											
12 CU	120 120		110											
			115											
13 CU	120 120		120											
			125		SP									
14 CU	120 120		130											
			135											
15 CU	120 120		140											
			145											
16 CU	120 120		150											
			155											
17 CU	120 120		160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-06 Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
18 CU	150 150		165		SP									
			170	**POORLY GRADED SAND (SP)**, drilling return fluids are Reddish Brown (5YR 5/4).										
			175		SP									
				End of boring at 178.5 ft bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-07

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	4/18/2023	4/20/2023	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-07	Feet MSL	938.2 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 356726 N, 2223386 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 29.140"
Long 89° 2' 51.240"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CU	60 60		0	**TOPSOIL**, organics present, Dark Brown (10YR 3/3), moist, no odor, appears as weathered limestone from 3-4 feet bgs.										8-inch borehole from 0-6 ft bgs. 6-inch borehole from 6-267.5 ft bgs. Alternated drilling 20 feet with a 4-inch hammer bit with advancing 20 feet of casing 6-inch casing. Drilling mud is 75 gallons of Quik Gel per 300 gallons of water. All drilling returns are fluid with rock fragments; not enough material to characterize at 4 ft BGS. Driller notes, "Subsurface drills hard." Driller notes, "Subsurface drills hard." Driller notes, "Subsurface softens at 44-45 ft."
2 CU	120 120		5	**DOLOMITE (DO)**, competent, presumed to be carbonate, drilling return fluids are Light Brownish Gray (10YR 6/2).	DO									
3 CU	120 120		15											
4 CU	120 120		25											
5 CU	120 120		35											
6 CU	120 120		45	**POORLY GRADED SAND (SP)**, presumed to be sand, drilling return fluids are Light Yellowish Brown (10YR 6/4).	SP									
7 CU	120 120		55											
			60											

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

Signature	Firm	Tel: (608) 826-3600
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-07 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
8 CU	120 120		65											
			70											
9 CU	120 120		75											Driller notes, "Subsurface is becoming harder."
			80											
10 CU	120 120		85		SP									
			90											
11 CU	120 120		95											
			100											
12 CU	120 120		105	Drilling return fluids are Light Brownish Gray (10YR 6/2).										Driller notes, "Subsurface drills hard."
			110	**DOLOMITE (DO)**, competent, presumed to be carbonate, drilling return fluids are Light Brownish Gray (10YR 6/2).										
13 CU	120 120		115											
			120											
14 CU	120 120		125											Driller notes, "Subsurface drills hard with some occasional soft spots."
			130											
15 CU	120 120		135		DO									
			140											
16 CU	120 120		145											
			150											
17 CU	120 120		155											
			160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-07 Use only as an attachment to Form 4400-122. Page 3 of 4

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			165		DO									
18 CU	120 120		170	**POORLY GRADED SAND (SP)**, presumed to be sand, drilling return fluids are Light Yellowish Brown (10YR 6/4).	SP									Drilling fluid return lost at 170 ft bgs.
19 CU	120 120		175											Driller notes, "Subsurface drills hard; overall seems harder than MP-08."
20 CU	120 120		180											
21 CU	120 120		185											No return fluid; drilling mud has been thickened.
22 CU	120 120		190											
23 CU	120 120		195											
24 CU	120 120		200											
25 CU	120 120		205											
26 CU	120 120		210											
27 CU	150 150		215											
			220											
			225											
			230											
			235	Drilling return fluids are Light Yellowish Brown (10YR 6/4).										Intermittent drilling fluid return beginning at 235 ft bgs. Driller notes, "Subsurface is a little softer at 235 ft bgs.
			240											
			245											
			250											
			255	Drilling return fluids are Reddish Brown (5YR 5/4).										
			260											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-07 Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			265		SP									
				End of boring at 267.5 ft bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MP-08

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Roy Buckenberger Cascade	4/12/2023	4/13/2023	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MP-08	Feet MSL	935.1 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 356491 N, 2223391 E Ⓢ/C/N
SE 1/4 of NW 1/4 of Section 23, T 6 N, R 12 E
Lat 42° 58' 26.820"
Long 89° 2' 51.210"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CU	72 72		0	**TOPSOIL**, organics present, Dark Brown (10YR 3/3), no odor.										8-inch borehole from 0-14 ft bgs. 6-inch borehole from 14-251 ft bgs. Drilling mud is approximately 75 gallons of Quik Gel per 300 gallons of water. All drilling returns are fluid with rock fragments; not enough material to characterize at 6 ft BGS. Driller notes, "Subsurface drills hard." Crew added Ben-Seal to increase the surface seal as returns were being lost in the shallow subsurface. Driller notes, "Subsurface drills hard." Driller notes, "Subsurface drills hard." Driller notes, "Softens from 30-32 ft bgs." Driller notes, "Mostly soft with some harder layers." Driller notes,
				SILTY CLAYEY SAND (SM), mostly fine- to coarse-grained sand, few clay and silt, brown (7.5YR 4/3), moist, loose.	SM									
2 CU	96 96		10											
				DOLOMITE (DO), competent, presumed to be carbonate, drilling return fluids are Light Brownish Gray (10YR 6/2).	DO									
3 CU	156 156		15											
			20											
			25											
4 CU	120 120		30											
			35											
5 CU	120 120		40											
				POORLY GRADED SAND (SP), presumed to be sand, drilling return fluids are Light Yellowish Brown (10YR 6/4).	SP									
			45											
6 CU	120 120		50	Drilling return fluids are Light Yellowish Brown (10YR 5/4).										
			55											
7 CU	120 120		60	Drilling return fluids are Reddish Yellow (7.5YR 6/8).										

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

Signature	Firm	Tel: (608) 826-3600
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-08 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			65											"Mostly soft; drilling at a higher rate than initially at this borehole."
8 CU	120 120		70											
			75	Drilling return fluids are Light Gray (10YR 7/1).										Driller notes, "Subsurface firms up from 73-76 ft bgs."
9 CU	120 120		80											Driller notes, "Fairly easy drilling."
			85											
10 CU	120 120		90											
			95		SP									
11 CU	120 120		100											
			105											
12 CU	120 120		110											
			115											
13 CU	120 120		120											
			125	**DOLOMITE (DO)**, competent, presumed to be carbonate, drilling return fluids are Light Brownish Gray (10YR 6/2).										Driller notes, "Subsurface drills hard."
14 CU	120 120		130											Driller notes, "Not overly hard or soft, steady rate."
			135											
15 CU	120 120		140		DO									
			145											Driller notes, "Subsurface drills hard; feels like carbonate."
16 CU	120 120		150											
			155											
17 CU	120 120		160											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MP-08 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			165											
18 CU	120 120		170		DO									Driller notes, "Soft interval from 165-167." Driller notes, "Mostly hard with smaller, soft intervals."
			175											
19 CU	120 120		180	**POORLY GRADED SAND (SP)**, presumed to be sand, drilling return fluids are Light Brownish Gray (10YR 6/2).										Driller notes, "Subsurface drills soft at 180 ft bgs; overall it was relatively hard from 143-180 ft bgs." Driller notes, "Softer from 180-197 ft bgs. Not much rig shaking."
			185											
20 CU	120 120		190											
			195											
21 CU	120 120		200											Driller notes, "Fairly soft."
			205											
22 CU	120 120		210											
			215		SP									Driller notes, "Subsurface hardened a bit at 212 ft bgs."
23 CU	120 120		220											Driller notes, "Subsurface drills medium hard."
			225											
24 CU	120 120		230											
			235	Drilling return fluids are Reddish Brown (5YR 5/4).										
25 CU	120 120		240											Driller notes, "Subsurface drills medium hard."
			245											
26 CU	48 48		250											
				End of boring at 251 ft bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
RockGen Energy Center		MW-08

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Bill Beuning Cascade	4/11/2023	4/11/2023	rotosonic

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-08	882.6 Feet MSL	886.8 Feet MSL	6.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 357904 N, 2221886 E Ⓢ/C/N
SE 1/4 of SE 1/4 of Section 15, T 6 N, R 12 E
Lat 42° 58' 40.940" Long 89° 3' 11.230"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

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

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CU	72 72		0	**TOPSOIL**, Dark Brown (7.5YR 3/2), no odor, unconsolidated.										8-inch borehole from 0-26 ft bgs. 6-inch borehole from 26-70.5 ft bgs.
			3	**LEAN CLAY (CL)**, Brown (7.5YR 4/3), no odor, moist, stiff.	CL									
2 CU	120 120		6	**SILTY SAND WITH GRAVEL (SM)**, mostly fine- to coarse-grained poorly graded sand, little fine to coarse subrounded gravel, Brown (7.5YR 4/3), wet, loose.										
			9											
			12											
			15											
3 CU	120 120		18											
			21		SM									
			24											
4 CU	120 120		27											Driller notes, "It's grabby and drills tight but I don't have to spin to cut through it. I can still push through it."
			30											
			33											
5 CU	48 48		36											Driller notes, "It's hard, but probably still not bedrock at
			39	**POORLY GRADED SAND (SP)**, coarse-grained, subrounded, Light Yellowish Brown (10YR 6/4), no odor.	SP									

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Signature	Firm	Tel: (608) 826-3600
Marshal Tofte	TRC Companies 999 Fourier Drive Suite 101 Madison, WI 53717	Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number MW-08 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
6 CU	144 144		42 45 48 51		SP									36 ft bgs."
7 CU	144 144		54 57 60 63	**POORLY GRADED SAND WITH CLAY (SP-SC)**, mostly coarse-grained, subrounded, Light Yellowish Brown (10YR 6/4) sand with few Light Grayish Green (5GY 6/2) clay and weathered limestone, no odor.	SP-SC									
8 CU	78 78		66 69											Driller described issues with sediment in the hole "rolling," meaning that he couldn't get the bottom of the hole cleaned. The crew flushed the borehole with at least 300 gallons of water to remove drilling fluids and sediment prior to development.
				End of boring at 70.5 ft bgs. Cuttings from runs 1-3 are stored in drum 1, cuttings from runs 4-7 stored in drum 2.										

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: RockGen Energy Center	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: MW-08
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☒ Lat. 42° 58' 40.9" Long. 89° 3' 11.2" or St. Plane 357,904 ft. N, 2,221,886 ft. E. Ⓢ/C/N	Wis. Unique Well No. / DNR Well Number
Facility ID		Date Well Installed: 04/12/2023
Type of Well: Well Code 11/mw	Section Location of Waste/Source: SE 1/4 of SE 1/4 of Sec. 15, T. 6 N, R. 12 ☒ E ☐ W	Well Installed By: (Person's Name and Firm): Bill Beuning, Cascade
Distance from Waste/Source ft. / Enf. Stds. Apply ☒	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☒ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 889.24 ft. MSL

B. Well casing, top elevation 889.23 ft. MSL

C. Land surface elevation 886.76 ft. MSL

D. Surface seal, bottom 884.3 ft. MSL or 2.5 ft.

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

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☐ 41 / Mud rotary hammer / Other ☒

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

16. Drilling additives used? ☒ Yes ☐ No

Describe Baroid QUIK-GEL

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

E. Bentonite seal, top 884.3 ft. MSL or 2.5 ft.

F. Fine sand, top 835.3 ft. MSL or 51.5 ft.

G. Filter pack, top 833.3 ft. MSL or 53.5 ft.

H. Screen joint, top 831.3 ft. MSL or 55.5 ft.

I. Well bottom 816.3 ft. MSL or 70.5 ft.

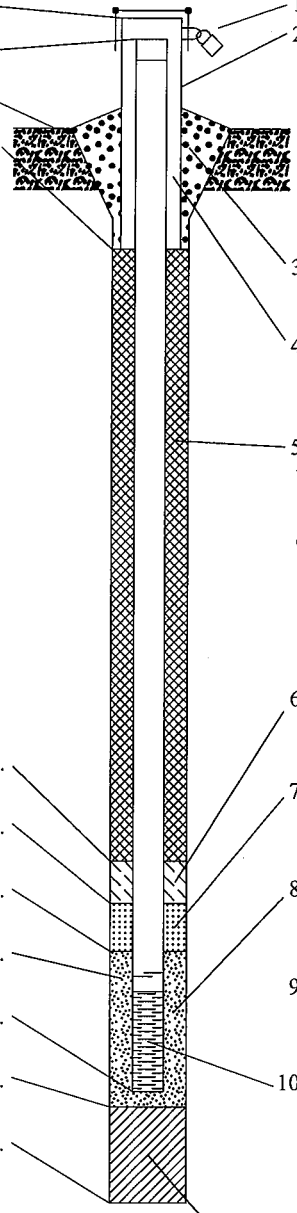
J. Filter pack, bottom 816.3 ft. MSL or 70.5 ft.

K. Borehole, bottom 816.3 ft. MSL or 70.5 ft.

L. Borehole, diameter 6.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 2.05 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 3.8 in.
b. Length: 7.0 ft.
c. Material: Steel ☒ 04 / Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: bollards

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐

4. Material between well casing and protective pipe: Bentonite ☐ 30 / Coarse sand / Other ☒

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. 2.5 Lbs/gal mud weight . . . Bentonite slurry ☒ 31
d. ____ % Bentonite . . . Bentonite-cement grout ☐ 50
e. 8.5 Ft^3 volume added for any of the above
f. How installed: Tremie ☒ 01 / Tremie pumped ☐ 02 / Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint #7
b. Volume added 0.25 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40
b. Volume added 3 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐

10. Screen material: PVC
a. Screen Type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Hole Products
c. Slot size: 0.010 in.
d. Slotted length: 15.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐

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

Signature: Marshall Faffe | Firm: TRC Companies, 999 Fourier Drive Suite 101 Madison, WI 53717 | Tel: (608) 826-3600 Fax:

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County	Well Name
RockGen Energy Center	Dane	MW-08

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well Number
	13		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method:

surged with bailer and bailed	☐	4 1
surged with bailer and pumped	☐	6 1
surged with block and bailed	☐	4 2
surged with block and pumped	☐	6 2
surged with block, bailed, and pumped	☐	7 0
compressed air	☐	2 0
bailed only	☐	1 0
pumped only	☒	5 1
pumped slowly	☐	5 0
other _____	☐	

3. Time spent developing well: 200 min.

4. Depth of well (from top of well casing): 70.5 ft.

5. Inside diameter of well: 2.05 in.

6. Volume of water in filter pack and well casing: 30.4 gal.

7. Volume of water removed from well: 300.0 gal.

8. Volume of water added (if any): 300.0 gal.

9. Source of water added: Site demineralized water tank

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

		Before Development	After Development
11. Depth to Water (from top of well casing)	a.	4.00 ft.	4.20 ft.
Date	b.	4/11/2023	4/11/2023
Time	c.	02:00 ☒ p.m. ☐ a.m.	05:00 ☒ p.m. ☐ a.m.
12. Sediment in well bottom		6.0 inches	0.0 inches
13. Water clarity		Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) medium brown	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) very light brown, low turbidity

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Bill Beuning
Cascade

17. Additional comments on development:
Borehole was flushed with 300 gallons of water following completion. Well developed using an typhoon pump. 300 gallons removed. Total time spent developing was estimated. Well bottom depth based on depth to bottom measured after well development, assuming no sediment present after development.

Facility Address or Owner/Responsible Party Address

Name: Dennis Oehring
Firm: RockGen Energy Center, LLC
Street: 2346 Clear View Road
City/State/Zip: Cambridge, WI 53523

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

Signature: Marshal Tofte
Print Name: Marshal Tofte
Firm: TRC Companies

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

Appendix B: Westbay® Completion Reports

Westbay Completion Report

Westbay Monitoring Wells: MP-01, MP-02, MP-03, MP-04 and MP-05

RockGen Energy Center
Cambridge, WI
January 2022

Prepared for:

TRC
6737 W. Washington Street
Suite 2100
West Allis, WI 53214

Prepared by:

Earth Data Northeast, Inc.
Whiteland Technology Center
924 Springdale Drive
Exton, PA 19341

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Table 6: Integrity Test Result – MP-05
Table 7: MP-01 As-Built Packer and Port Summary
Table 8: MP-02 As-Built Packer and Port Summary
Table 9: MP-03 As-Built Packer and Port Summary
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Figure 2: Zone Dimensions and Packer Seals
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Figure 6: MP-02 Post-Inflation Pressure Profile (Appendix B)
Figure 7: MP-03 Pre-Inflation Pressure Profile (Appendix C)
Figure 8: MP-03 Post-Inflation Pressure Profile (Appendix C)
Figure 9: MP-04 Pre-Inflation Pressure Profile (Appendix D)
Figure 10: MP-04 Post-Inflation Pressure Profile (Appendix D)
Figure 11: MP-05 Pre-Inflation Pressure Profile (Appendix E)
Figure 12: MP-05 Post-Inflation Pressure Profile (Appendix E)

Appendices

Appendix A – MP-01
Appendix B – MP-02
Appendix C – MP-03
Appendix D – MP-04
Appendix E – MP-05

1. Introduction

This report details the onsite technical services performed by Earth Data Northeast, Inc. (EDN) under RockGen Purchase Order RPO1313. Westbay System monitoring wells were installed in boreholes MP-01, MP-02, MP-03, MP-04 and MP-05 at the RockGen Energy Center in Cambridge, WI.

EDN installation technician Mr. George Seidman was onsite to perform the installations from November 8 through November 22, December 6 through December 8, and December 14 through the 16, 2021. Mr. Marshall Toft and Mr. Scott Litwin, from TRC were onsite to assist and oversee the installations. Additional installation assistance was provided by Cascade Drilling. This report documents the installation tasks and related QA checks.

2. Previous Site Activities

The monitoring wells were drilled as open bedrock boreholes, approximately 6.0-inches in diameter. Temporary casing was installed in the boreholes to prevent the collapse of the potentially unstable boreholes walls. Natural gamma logging was performed by TRC in each borehole prior to the installation of the Westbay Systems.

Table 1. Summary of Westbay System Installations

Well-ID	MP Casing	Installation Date	Borehole Depth	MP Casing Depth	No. Monitoring Zones
MP-01	MP38	Nov 12-17, 2021	293’	293’	8
MP-02	MP38	Nov 8-12, 2021	300’	300’	6
MP-03	MP38	Nov 18-22, 2021	300’	296’	8
MP-04	MP38	Dec 6-8, 2021	291’	291’	8
MP-05	MP38	Dec 14-15, 2021	279’	279’	8

3. Installation

3.1 Preparation of Monitoring Well Design

Well designs were completed by EDN based on requested packer locations provided by Mr. Jeff Ramey of TRC. Casing installation logs were produced from the well design, and were reviewed and approved in the field by Mr. Toft or Mr. Litwin. Copies of the well designs and installation logs are included in the Appendices.

All of the wells completed with an MP38 Westbay Systems. The monitoring intervals contained Model 0205 measurement port couplings used to collect fluid pressures and groundwater samples. Each monitoring zone also contained a Model 0224 mechanical pumping port which can be used for purging and hydraulic conductivity testing.

Mr. Ramey requested that optional synthetic filters were to be installed over the measurement port couplings in each well.

3.2 Layout of Westbay Casing Components

Prior to the installation, the Westbay System casing components were laid out near the wellhead of the borehole in the order in which they were to be installed, as indicated on the approved installation log. Each casing component was numbered in order, beginning with the deepest components and continuing to the shallowest. Once numbered, each component received the proper Westbay System coupling as indicated on the installation log.

Magnetic Locating Collars were attached approximately 2.0 feet below each measurement port. Each casing component was visually inspected for any damage or defect prior to installation. Serial numbers for each Westbay packer, Westbay pumping port and Westbay measurement port couplings were recorded on the Casing Installation Log. Each well component and attached coupling was confirmed with the log prior to being lowered into the well.

3.3 Lowering of Westbay Components

The Westbay components were lowered with the assistance of the drilling rig operated by Cascade. As the components were joined, each casing joint was tested with a minimum internal hydraulic pressure of 150 psi for 1 minute to confirm hydraulic seals. Check marks on the casing installation log provide a record of the joint testing.

Clean water was added to the Westbay casing when necessary to compensate for buoyancy effects during lowering. During lowering, the Westbay Systems in MP-04 and MP-05 reached the bottom of their respective borehole at a depth less than expected. This resulted in these systems being offset from their initial Westbay designs by 4 ft in MP-04 and 3 ft in MP-05.

All data presented in this report is based on the final, as-built position of the Westbay components, which includes the offset. The exception is the installation logs which were completed in the field during the lowering of the Westbay System.

3.4 Positioning of Westbay Components

After the components were lowered in to the well, the Westbay casing string was positioned as shown on the Summary Casing Log. The Westbay casing string was supported in this position while packer inflation was carried out.

The positioning of the Westbay casing components is based on the "nominal" lengths of Westbay casing components. The positioning calculations do not include allowances for borehole temperature or deviation effects, which are site dependant. The attached figure titled "MOSDAX Transducer Position" provides information to correlate the position of MOSDAX Transducer sensors to the reference position at the top of the Measurement Port. The attached figure titled "Dimensions of Packer Seals and Monitoring Zones" outlines the calculations used to determine the packer centerline depths and zone lengths.

3.5 Hydraulic Integrity Testing

After the Westbay casing was lowered into in the borehole and prior to packer inflation, the water pressure inside the Westbay casing was monitored to confirm the hydraulic integrity of the casing. The water pressure inside the casing was monitored for a period of 30 minutes and observed for changes. In each of the wells the water pressure in the borehole was greater than the water pressure in the Westbay casing, so any leaks would result in a rising water pressure inside the Westbay casing. The integrity tests indicated that the Westbay Systems were water tight prior to packer inflation. The results of the test can be seen in Tables 2-6.

Table 2. Integrity Test Results-MP-01

Borehole	Time	Water Pressure (psi) Inside Westbay Casing
MP-01	12:38	40.20
11/12/21	12:48	40.20
	12:58	40.19
Borehole Water Pressure 107.70'	13:08	40.20

Table 3. Integrity Test Results-MP-02

Borehole	Time	Water Pressure (psi) Inside Westbay Casing
MP-02	8:59	33.60
11/11/21	9:09	33.60
	9:19	33.62
Borehole Water Pressure 105.39	9:29	33.61

Table 4. Integrity Test Results-MP-03

Borehole	Time	Water Pressure (psi) Inside Westbay Casing
MP-03	9:50	67.62
11/19/21	10:00	67.62
	10:10	67.62
Borehole Water Pressure 119.41	10:20	67.62

Table 5. Integrity Test Results-MP-04

Borehole	Time	Water Pressure (psi) Inside Westbay Casing
MP-04	14:48	51.49
12/6/21	14:58	51.51
	15:08	51.51
Borehole Water Pressure 109.60	15:18	51.51

Table 6. Integrity Test Results-MP-05

Borehole	Time	Depth to Water (ft) Inside Westbay Casing
MP-05	15:38	79.83
12/14/21	15:48	79.83
	15:58	79.83
Borehole Water Pressure 117.54	16:08	79.83

3.6 Pre-inflation Profile

Prior to inflating the packers in each well, a pressure profile was performed. The goal of the pressure profile was to confirm the proper operation and location of the measurement ports and magnetic collars. A plot of the Pre-Inflation Piezometric levels in all zones in the wells is shown on Figures 3, 5, 7, 9 and 11 in the Appendices along with the field profile forms.

3.7 Inflation of MP System Packers

The Westbay packers were inflated sequentially beginning at the bottom of the well using clean water. Schlumberger's model No. 6055 vented inflation tool was used for packer inflation. The data for inflation of each packer are provided on the Westbay Packer Inflation Records included in the Appendices.

The shallowest packer (packer No. 8) in MP-05 was inadvertently inflated within the temporary well casing. This pulled apart the Westbay System from above the top of packer No. 7 when the casing was removed. New pipe and ports were installed to replace those pulled out and Packer No. 8 was not replaced, though the packer inflation form for it is included in the Appendices.

4. Fluid Pressure Measurements

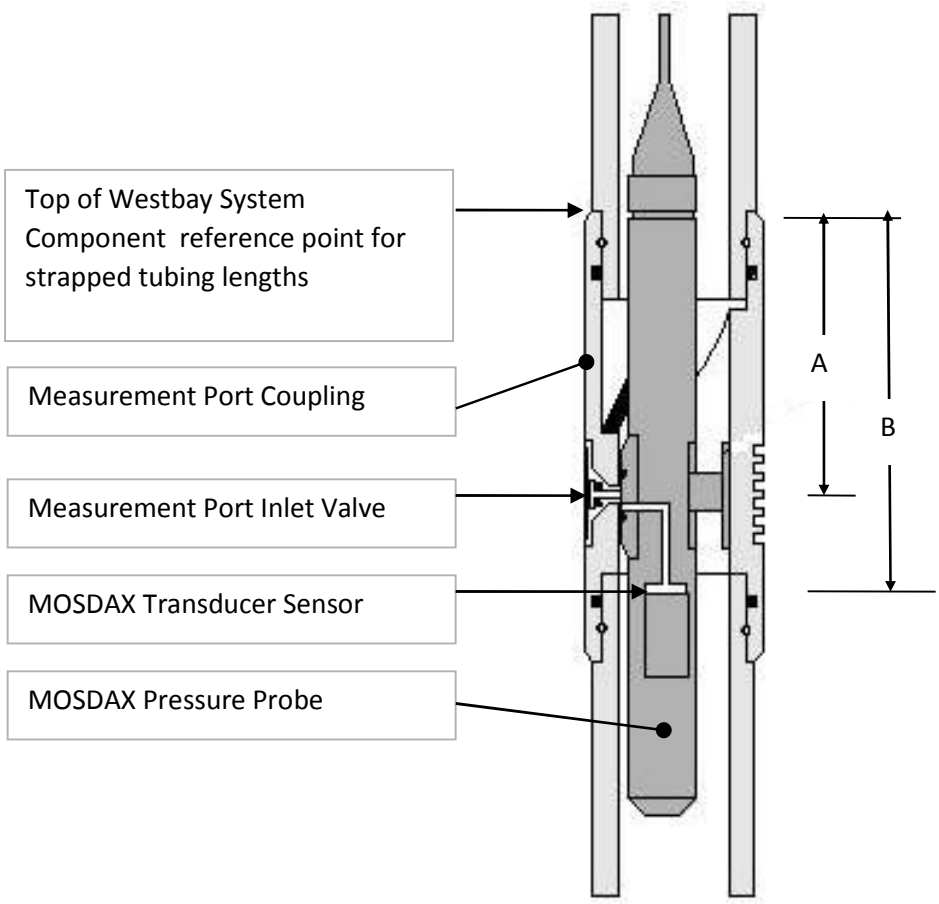
Following inflation of the packers, a post-inflation pressure profile was completed. At the time the measurements were taken, the isolated intervals may not have reached their final equilibrated fluid pressure levels. Longer term monitoring may be required to establish representative fluid pressures.

A plot of the Post –Inflation Piezometric levels is shown in Figure 4, 6, 8, 10 and 12. The data was reviewed to confirm proper operation of the measurement ports and check the presence of the annulus seals between monitoring zones.

Figure 1:

MOSDAX Transducer Position

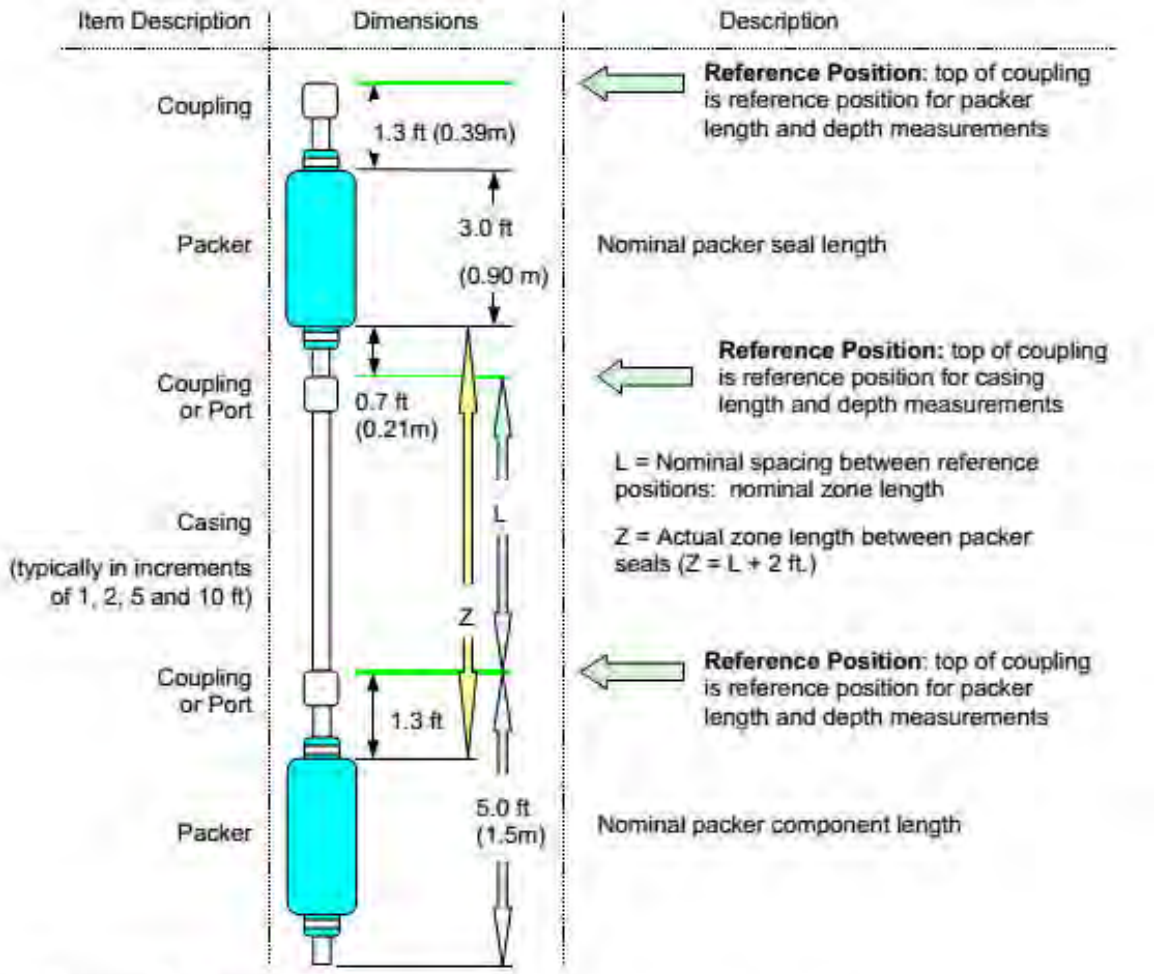
In an Westbay System Measurement Port Coupling



System	Measurement Port	A	B
Plastic MP38	0205	0.37 ft. (114.3 mm)	0.54 ft. (165.1 mm)

Figure 2:

Dimensions of Packer Seals and Monitoring Zones Westbay MP38 System 0239 Packers



Discussion Points:

- The top of a coupling (Regular Coupling, Measurement Port or Pumping Port) is the reference point for describing nominal depths and nominal lengths. Actual positions of packer seals and zone lengths are determined with respect to the appropriate reference positions.
- Packer Position Example: A packer with a nominal depth of 50 ft (15.2m), will have a nominal packer seal position of 51.3 to 54.3 ft. (15.59 to 16.49m)
- Zone Length Example: A zone whose upper packer is at 50 ft (15.2m) and bottom packer is at 70 ft (21.3m) will have a nominal zone length of 15 ft (4.6m) and an actual zone length (between packer seals) of 15.0+1.3+0.7 = 17.0ft. (4.6 + 0.39 + 0.2 = 5.19m)
- Information on the position of Measurement Port Valve and MOSDAX Transducer sensor, used for detailed calculation of piezometric level measurements, are described separately.

APPENDIX A – MP-01

As-Built Packer and Port Summary (Table 7)	- 1 Page
Summary Casing Log	- 3 Pages
Pre-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (November 11, 2021)	- 1 Pages
Figure 3, Pre-Inflation Piezometric Pressure Profile	- 1 Page
Post-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (November 17, 2021)	- 1 Pages
Figure 4, Post-Inflation Piezometric Pressure Profile	- 1 Page
Casing Installation Log	- 5 Pages
MP Packer Inflation Records	- 8 Pages

Table 7. MP-01 As-Built Packer and Port Summary

Port No.	Zone	Measurement Port Depth (ft)	Pumping Port Depth (ft)	Depth to Top of Packer (ft)	Top of Zone (ft)	Bottom of Zone (ft)	Comments
8	8	278.0	283.0	273.0	277.3	293.0	
7	7	259.0	264.0	249.0	253.3	274.3	
6	6	234.0	239.0	219.0	223.3	250.3	
5	5	209.0	214.0	194.0	198.3	220.3	
4	4	176.0	186.0	151.0	155.3	195.3	
3	3	132.0	137.0	117.0	121.3	152.3	
2	2	102.0	107.0	87.0	91.3	118.3	
1	1	72.0	77.0	47.0	51.3	88.3	

All depth measurements in feet below ground surface (bgs).

All depth measurements use 'Nominal' tubing lengths.

Not corrected for borehole deviation or borehole temperature effects.

All depth measurement to upper edge of Westbay System coupling item.

Summary Casing Log

Company: TRC
Well: MP-01
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 293.16 ft.

Borehole Depth: 296.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

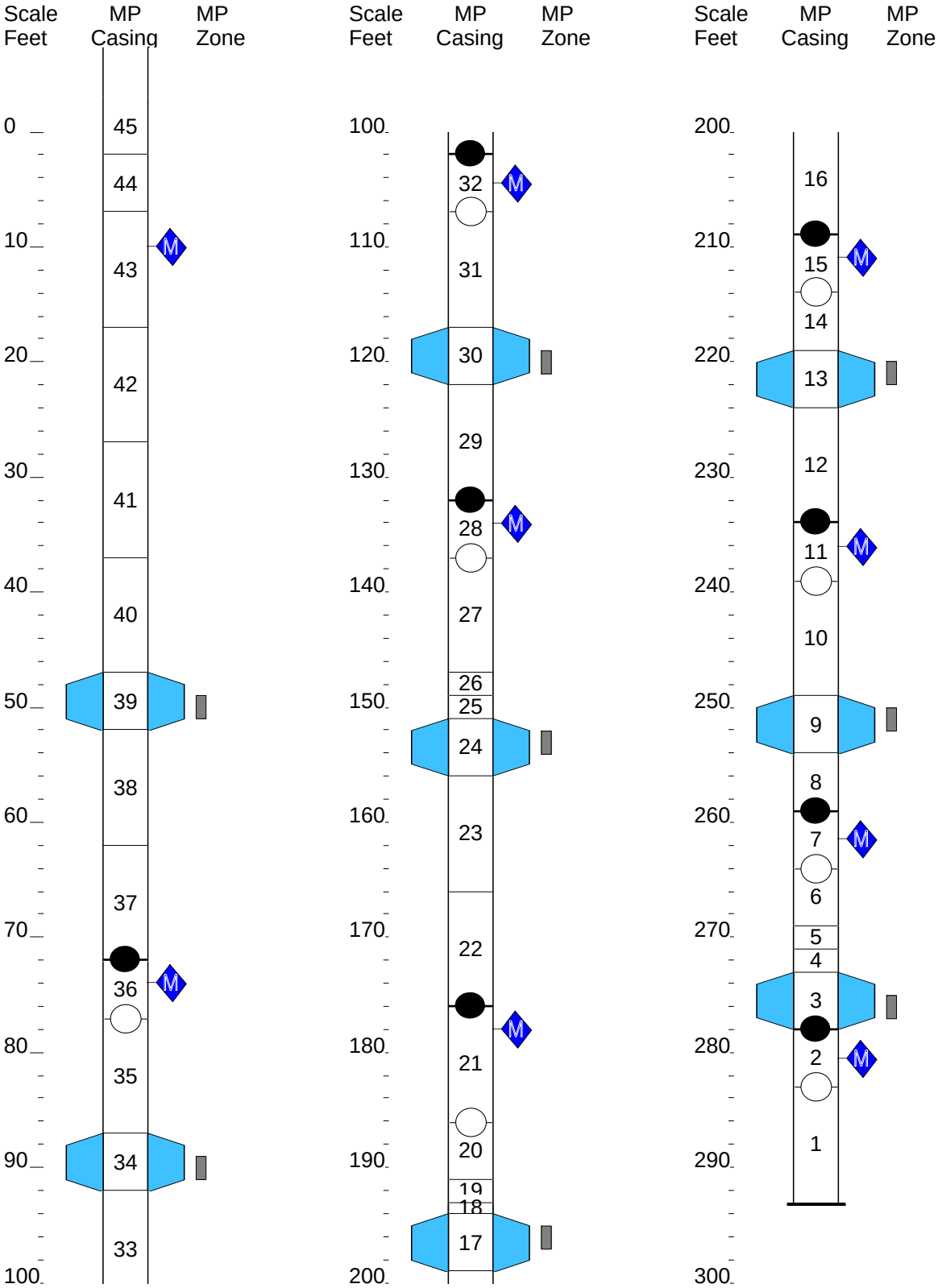
File Name: MP-01.WWD
Report Date: Sat Nov 06 12:58:32 2021

File Date: Nov 06 12:55:28 2021

Sketch of Wellhead Completion

Well Designer Report
TRC

Job No: FS1370
Well: MP-01

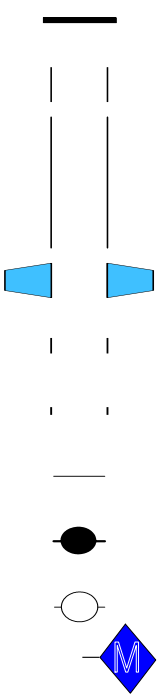


Legend

(Qty) MP Components (Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(14) 020105 - MP38 Casing 2 (5F/1.5M)

(18) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(5) 020102 - MP38 Casing 3 (2F/0.6M)

(1) 020101 - MP38 Casing 4 (1F/0.3M)

(30) 0202 - MP38 Regular Coupling

(8) 0205 - MP38 Measurment Port

(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP-01
Datum: GS
Elev. G.S.:
Height of Westbay above G.S.: 8'
Elev. top of Westbay Casing:
Reference Elevation: GS
Boreholeangle: 90°

Probe Type: Sampler
Serial No.: 1761
Probe Range: 0-250
Westbay Casing Type: MP31
Sampler Valve Position: Closed

Date: 11/12/21
Client: TAC
Job No.: F51370
Location: RockGen
Weather: —
Operator: CR

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

Ambient Reading (P_{atm}) (pressure, temperature, time)

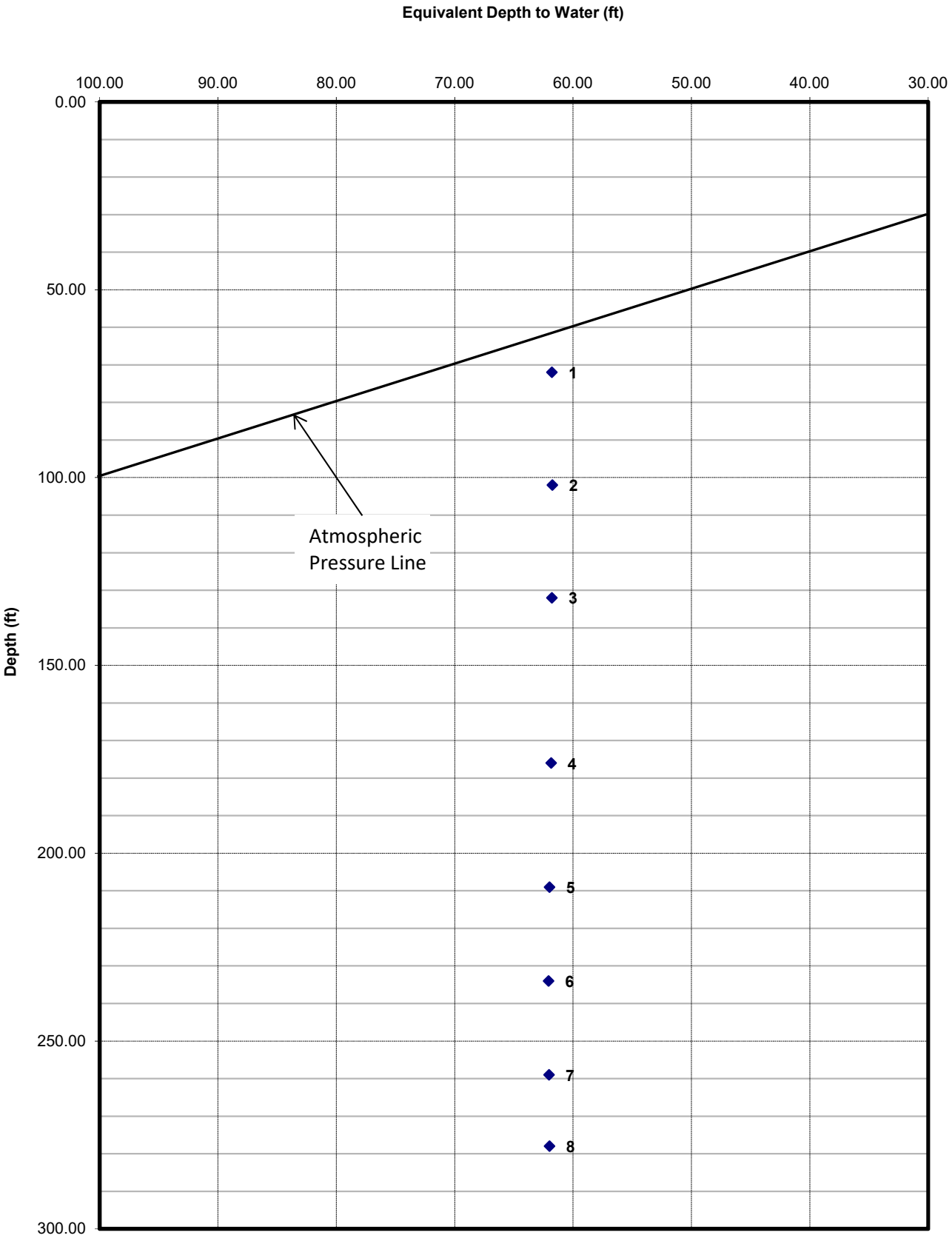
		Finish:
Start: Pressure	14.06	14.03
Temp	73.5	7.63
Time	10:34	13:25

P_{atm} 14.06 psi

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	278	276	—	92.70	107.70	13:14	10.25	92.72	216.01	61.99	Pre Inflation
7	259	257.1	—	84.50	99.45	13:16	10.23	84.50	196.98	62.02	
6	234	232.2	—	73.66	88.59	13:17	10.26	73.67	171.93	62.07	
5	209	207.3	—	63.82	77.79	13:19	9.96	63.82	147.01	61.99	
4	176	174.5	—	48.80	63.54	13:20	9.13	48.80	114.14	61.86	
3	132	130.8	—	29.40	44.50	13:22	8.24	29.40	70.22	61.78	
2	102	101	—	16.34	31.51	13:23	7.85	16.33	40.25	61.75	
1	72	71.1	—	14.08	18.49	13:24	7.64	14.08	10.22	61.78	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 3
Well: MP-01
Pre-Inflation Pressure Profile



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP-01
Datum: CS
Elev. G.S.:
Height of Westbay above G.S.: 3'
Elev. top of Westbay Casing:
Reference Elevation: CS
Boreholeangle: 90°

Probe Type: Sampler
Serial No.: 1741
Probe Range: 0-250
Westbay Casing Type: MP38
Sampler Valve Position: Closed

Date: 11/17/21
Client: TRC
Job No.:
Location: Rock Con
Weather: PC 47°F
Operator: CS, MT

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

Ambient Reading (P_{atm}) (pressure, temperature, time)

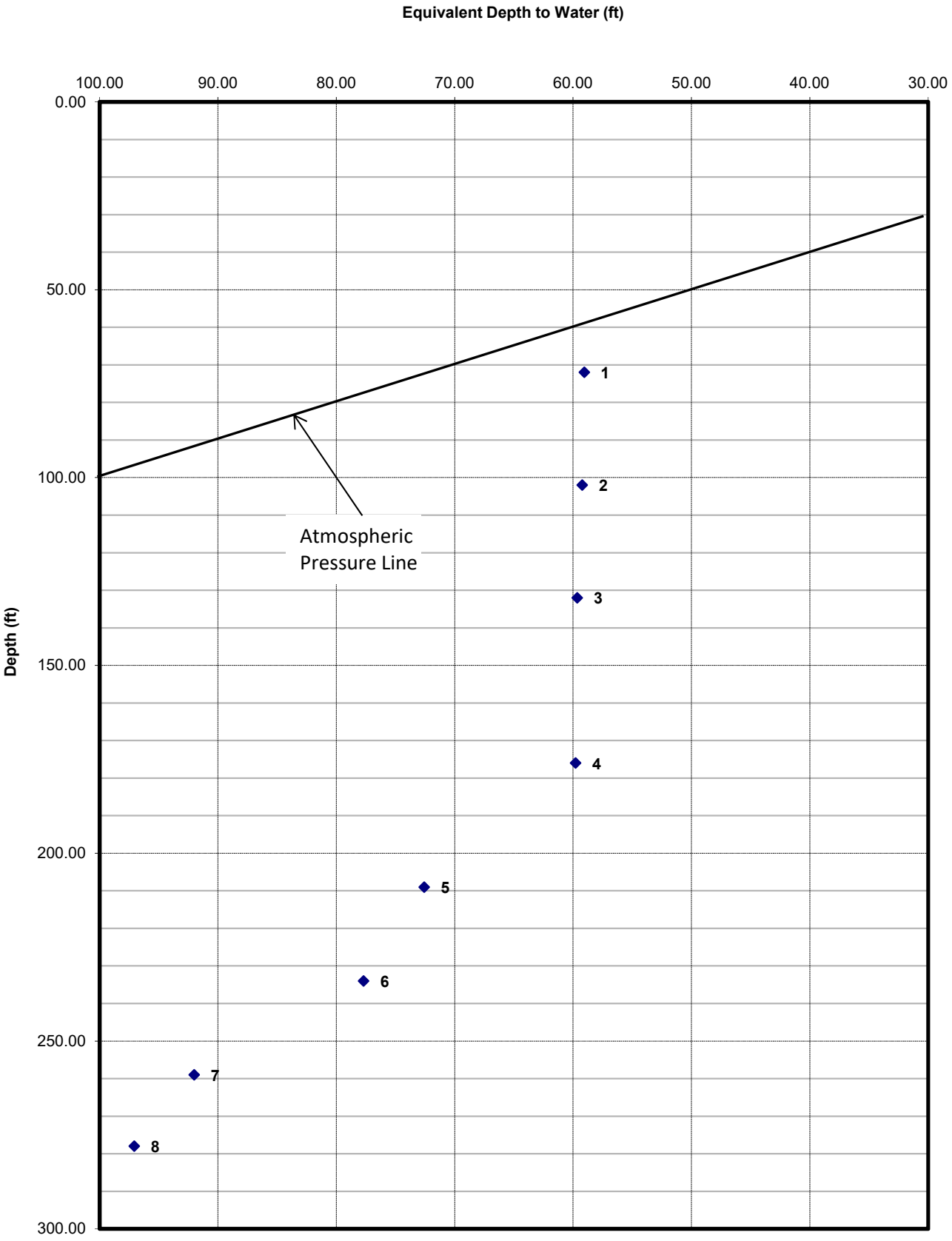
	Start	Finish
Pressure	14.09	14.12
Temp	14.14	14.13
Time	8:11	8:48

P_{atm} 14.09 psi

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	278	277	—	94.67	92.52	8:22	10.82	94.67	180.92	97.08	Post inflation
7	259	258.1	—	86.44	86.48	8:25	10.58	96.44	166.99	92.01	
6	234	233.2	—	75.62	81.55	8:30	10.48	75.63	156.31	77.69	
5	209	208.4	—	64.78	73.23	8:34	10.51	64.79	136.42	72.57	
4	176	175.5	—	50.47	64.47	8:37	10.56	50.48	116.22	59.78	
3	132	131.7	—	31.41	45.45	8:41	10.71	31.41	72.34	59.66	
2	102	101.9	—	18.37	32.63	8:44	10.84	18.39	42.77	59.23	
1	72	72.0	—	14.15	19.70	8:45	11.07	14.16	12.94	59.06	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 4
Well: MP-01
Post-Inflation Pressure Profile



Casing Installation Log

Company: TRC
Well: MP-01
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 293.16 ft.

Borehole Depth: 296.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-01.WWD
Report Date: Sat Nov 06 13:01:33 2021

File Date: Nov 06 12:55:28 2021

Comments

Client requests Filter sacks - MST

Log Information

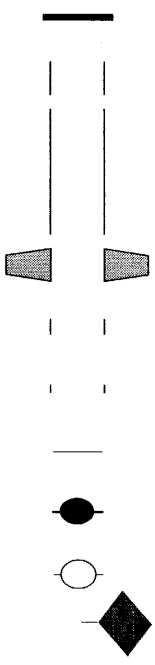
Borehole condition confirmed.	(method) Logging	Date: 11/9/21
MP well design & preparation.	By: [illegible]	Date: 11/10/21
MP well design checked.	By: Marshall Testa	Date: 11/12/21
MP well and borehole approved to install.	By: [illegible]	Date: 11/12/21

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(14) 020105 - MP38 Casing 2 (5F/1.5M)

(18) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(5) 020102 - MP38 Casing 3 (2F/0.6M)

(1) 020101 - MP38 Casing 4 (1F/0.3M)

(30) 0202 - MP38 Regular Coupling

(8) 0205 - MP38 Measurment Port

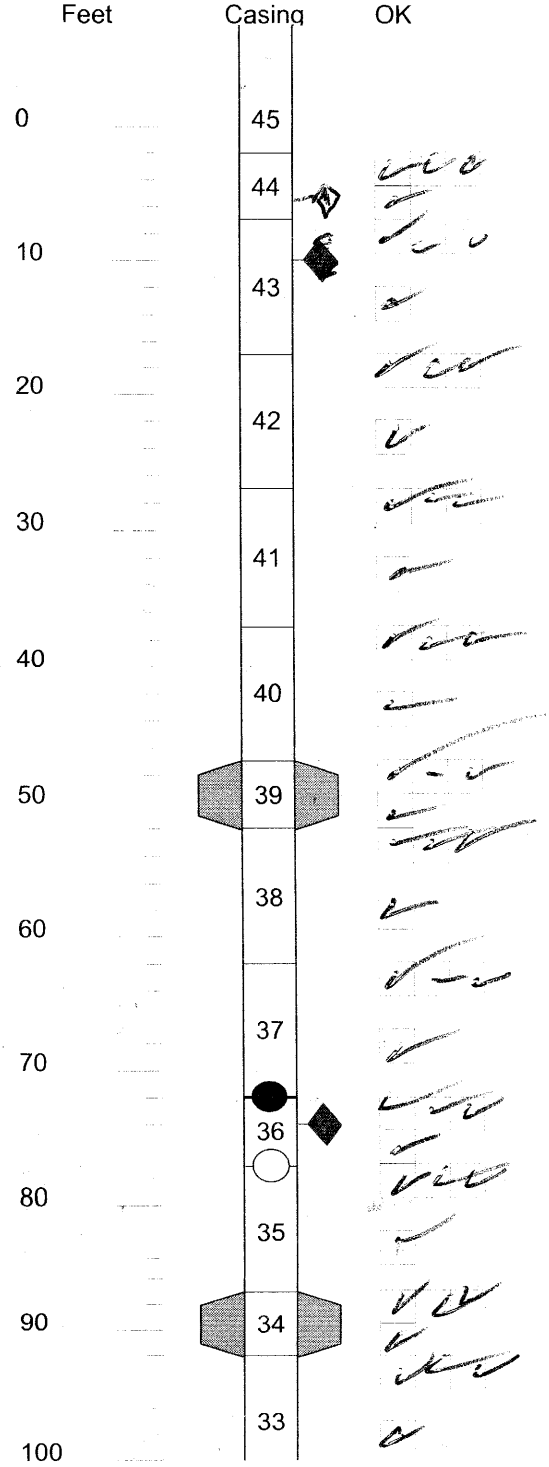
(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

(c) Westbay Instruments Inc. 2000

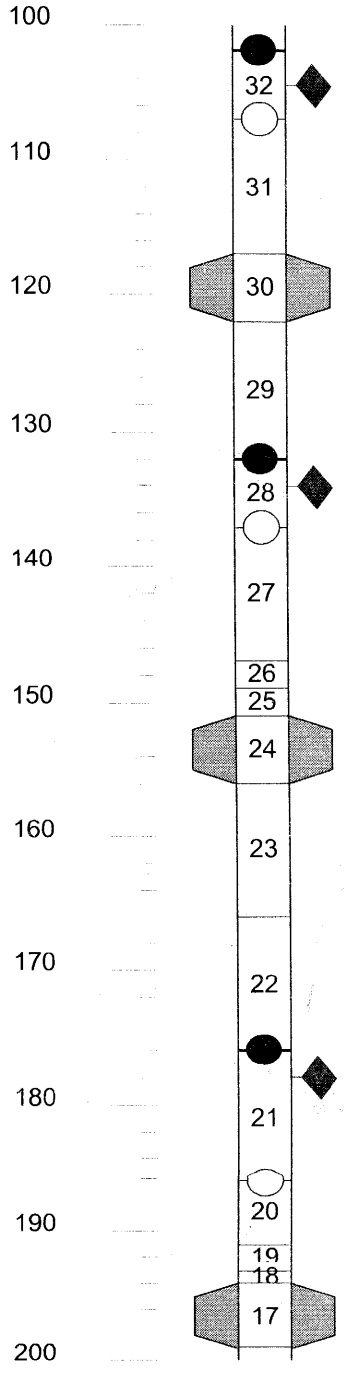
Well Designer Report
TRC

Job No: FS1370
Well: MP-01



Well Designer Report
TRC

Job No: FS1370
Well: MP-01

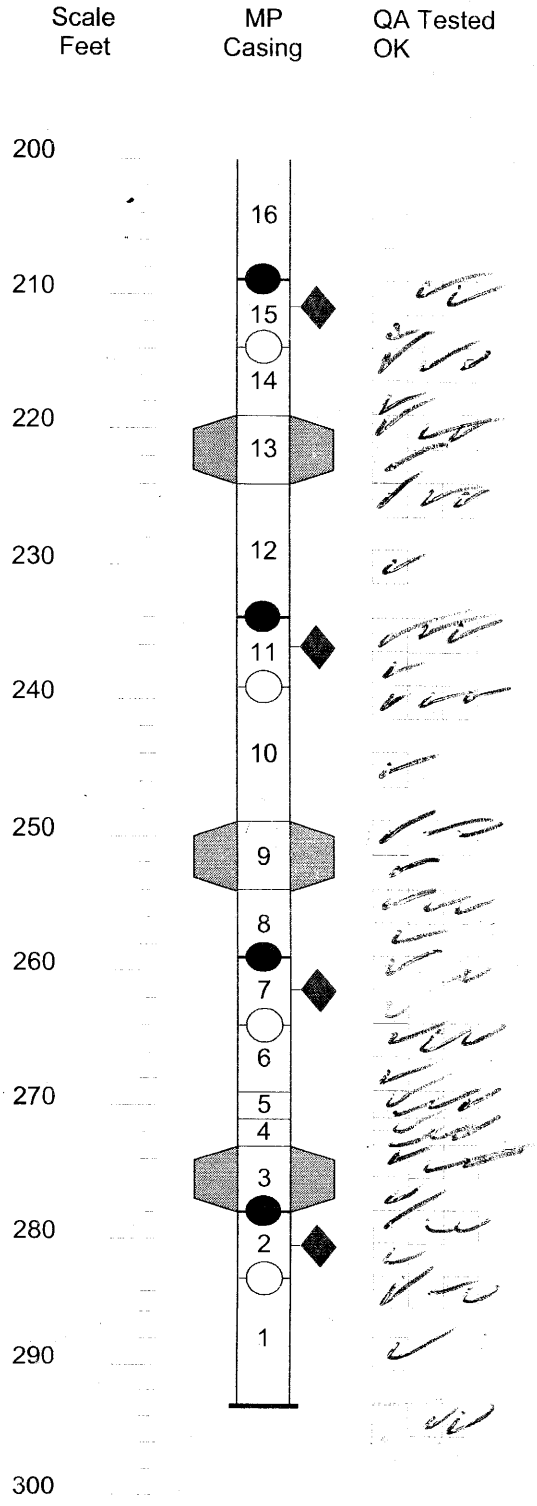


MP Casing Description

0205 - MP38 Measurment Port
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port
020110 - MP38 Casing 1 (10F/3M)
0235 - MP38 Packer 100mm (5F/1.5M
020110 - MP38 Casing 1 (10F/3M)
0205 - MP38 Measurment Port
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port
020110 - MP38 Casing 1 (10F/3M)
020102 - MP38 Casing 3 (2F/0.6M)
020102 - MP38 Casing 3 (2F/0.6M)
0235 - MP38 Packer 100mm (5F/1.5M
020110 - MP38 Casing 1 (10F/3M)
020110 - MP38 Casing 1 (10F/3M)
0205 - MP38 Measurment Port
020110 - MP38 Casing 1 (10F/3M)
0224 - MP38 Pumping Port
020105 - MP38 Casing 2 (5F/1.5M)
020102 - MP38 Casing 3 (2F/0.6M)
020101 - MP38 Casing 4 (1F/0.3M)
0235 - MP38 Packer 100mm (5F/1.5M

Well Designer Report
TRC

Job No: FS1370
Well: MP-01



MP Casing Description

020110 - MP38 Casing 1 (10F/3M)

0205 - MP38 Measurment Port 9906
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9202
020105 - MP38 Casing 2 (5F/1.5M)

0235 - MP38 Packer 100mm (5F/1.5M 596 169/130

020110 - MP38 Casing 1 (10F/3M)

0205 - MP38 Measurment Port 9401
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9194

020110 - MP38 Casing 1 (10F/3M)

0235 - MP38 Packer 100mm (5F/1.5M 593 165/190

020105 - MP38 Casing 2 (5F/1.5M)
0205 - MP38 Measurment Port 9459
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9143
020105 - MP38 Casing 2 (5F/1.5M)

020102 - MP38 Casing 3 (2F/0.6M)
020102 - MP38 Casing 3 (2F/0.6M)

0235 - MP38 Packer 100mm (5F/1.5M 594 165/190
0205 - MP38 Measurment Port 9462
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9144

020110 - MP38 Casing 1 (10F/3M)

0203 - MP38 End Cap

(c) Westbay Instruments Inc. 2000

Sat Nov 06 13:00:32 2021

Sheet 1 of 8

Westbay Packer Inflation Record

Project: MC-RockGen - Dare 6 PTMP Project No.: FS1370 Well No.: MP07

Location: RockGen Energy Completed by: AS Date Inflated: 11/2/21

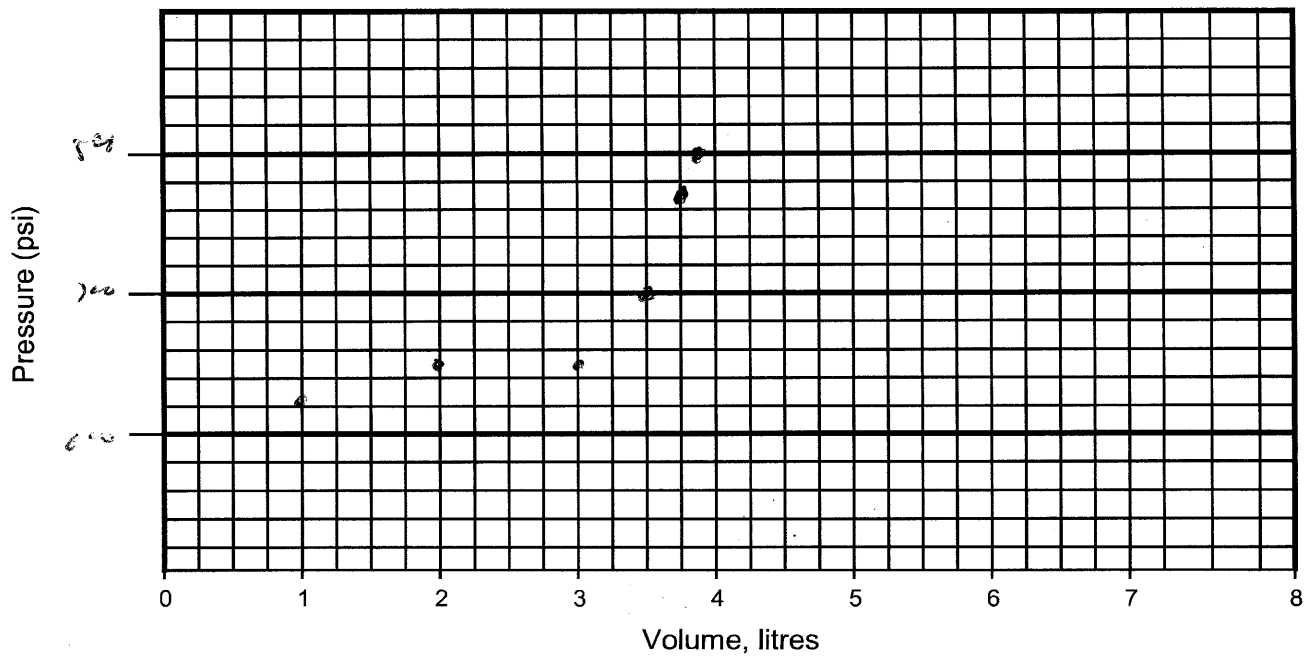
Packer No. 1 - 594 Depth (ft / m): 273 Inflation Tool No.: TIU 1058

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 800 psi Tool Pressure, P_T: 550 psi

Borehole Water Level: 92 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	3.5	~~4.0~~ 3.75	3.5	1	3.5		
Pressure, psi	~~625~~ 625	650	650	700	775	800	1	9		
Volume, litres										
Pressure, psi										



Comments: Packer # 1 Time - 13:55

Westbay Packer Inflation Record

Project: TRC-Dane County PFAS Project No.: FS1370 Well No.: MW-01

Location: RockGen Energy Completed by: CJ Date Inflated: 11/12/21

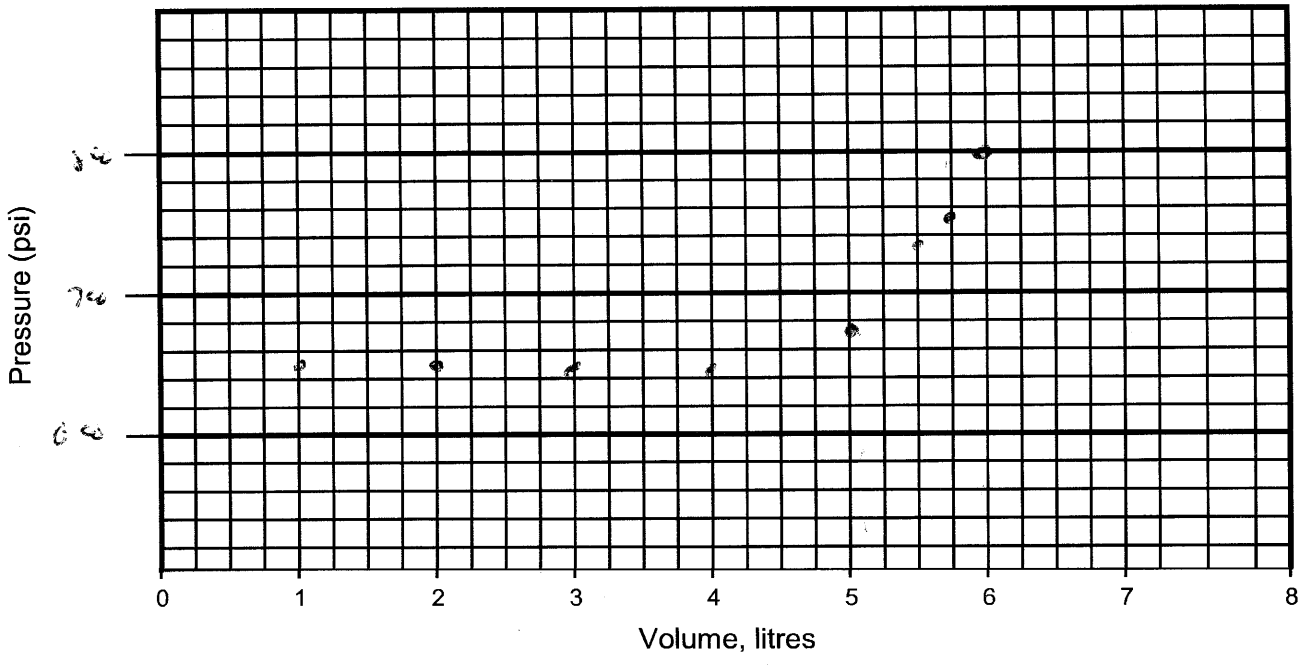
Packer No. 2 - 593 Depth (ft / m): 249 Inflation Tool No.: TW 1033

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 560 psi Tool Pressure, P_T: 532 psi

Borehole Water Level: 62 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	5.5	5.75	6.0	/	5.7
Pressure, psi	650	650	650	650	678	728	770	820	/	∅
Volume, litres										
Pressure, psi										



Comments: Packer # 2 Time - 14:11

Sheet 3 of 8

Westbay Packer Inflation Record

Project: TRC - Dan Co PEBS Project No.: FS1370 Well No.: MP-61

Location: Rockcer Energy Completed by: _____ Date Inflated: 11/12/21

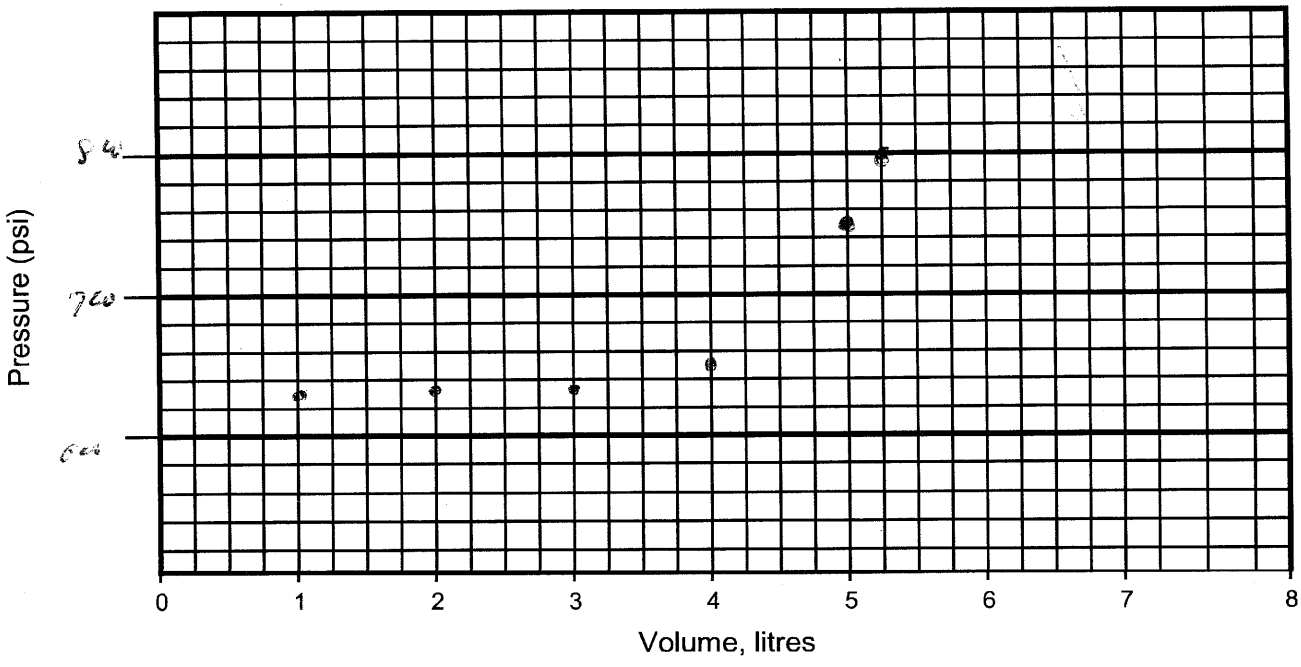
Packer No. 3 596 Depth (ft / m): 219 Inflation Tool No.: _____

Packer Valve Pressure, P_V: 1300 psi Final Line Pressure, P_L: 800 psi Tool Pressure, P_T: 530 psi

Borehole Water Level: 62 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 147 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	5.25	/	4.90		
Pressure, psi	625	625	625	650	700	800	/	0		
Volume, litres										
Pressure, psi										



Comments: Packer # 3 Time - 1434

Sheet 1 of 2

Westbay Packer Inflation Record

Project: TRC-Dem Co PFAS Project No.: PB1370 Well No.: MP-01

Location: Rock Creek Energy Completed by: CJ Date Inflated: 11/15/21

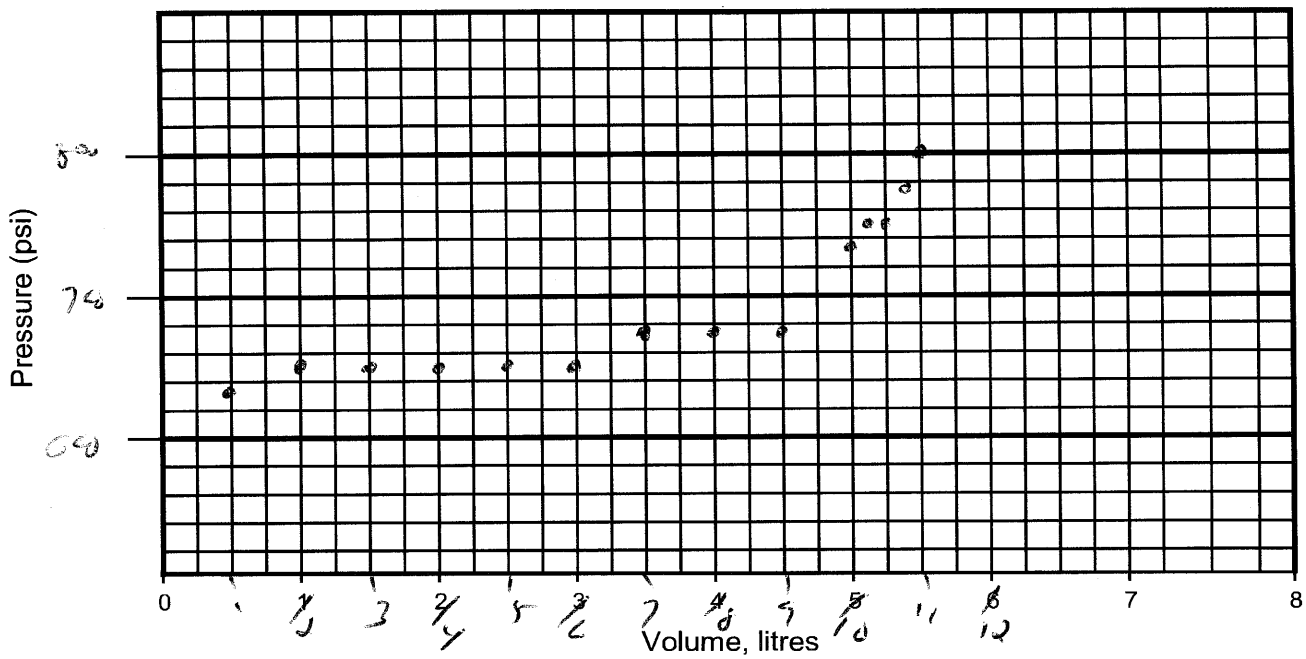
Packer No. 4 - 592 Depth (ft / m): 194 Inflation Tool No.: TIV 1033

Packer Valve Pressure, P_V: 145 psi Final Line Pressure, P_L: 800 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 62 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 132 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	680	690	690	690	690	675	675	675	725
Volume, litres	10.25	10.5	10.75	11.0	/	6.75				
Pressure, psi	750	770	775	850	/	0				



Comments: Packer # 4 Time - 10:54

Sheet 5 of 5

Westbay Packer Inflation Record

Project: TRC - Dane County PFAS Project No.: FS1370 Well No.: MW-01

Location: Rock Gen Energy Completed by: GS Date Inflated: 11/15/21

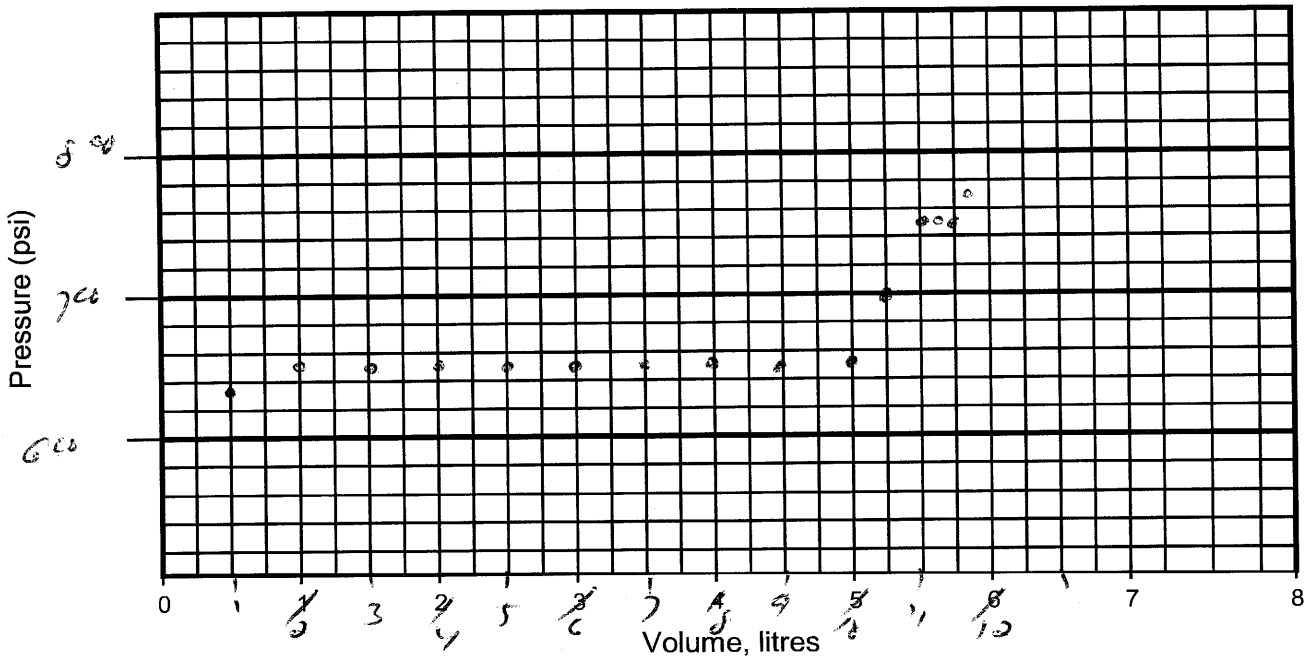
Packer No. 5 - 59.5 Depth (ft / m): 151 Inflation Tool No.: MW 1008

Packer Valve Pressure, P_V: 145 psi Final Line Pressure, P_L: 760 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 62 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 117 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	650	650	650	650	650	650	650	650	650
Volume, litres	10.5	11.0	11.5	11.60	11.70	/	11.45			
Pressure, psi	760	750	720	710	760	/	0			



Comments: Packer # 5 Time - 11:49

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_____

Sheet 6 of 8

Westbay Packer Inflation Record

Project: TRC - Dane Co. PFAS Project No.: F51370 Well No.: MP-01

Location: MacKenzie Energy Completed by: CS Date Inflated: 11/15/21

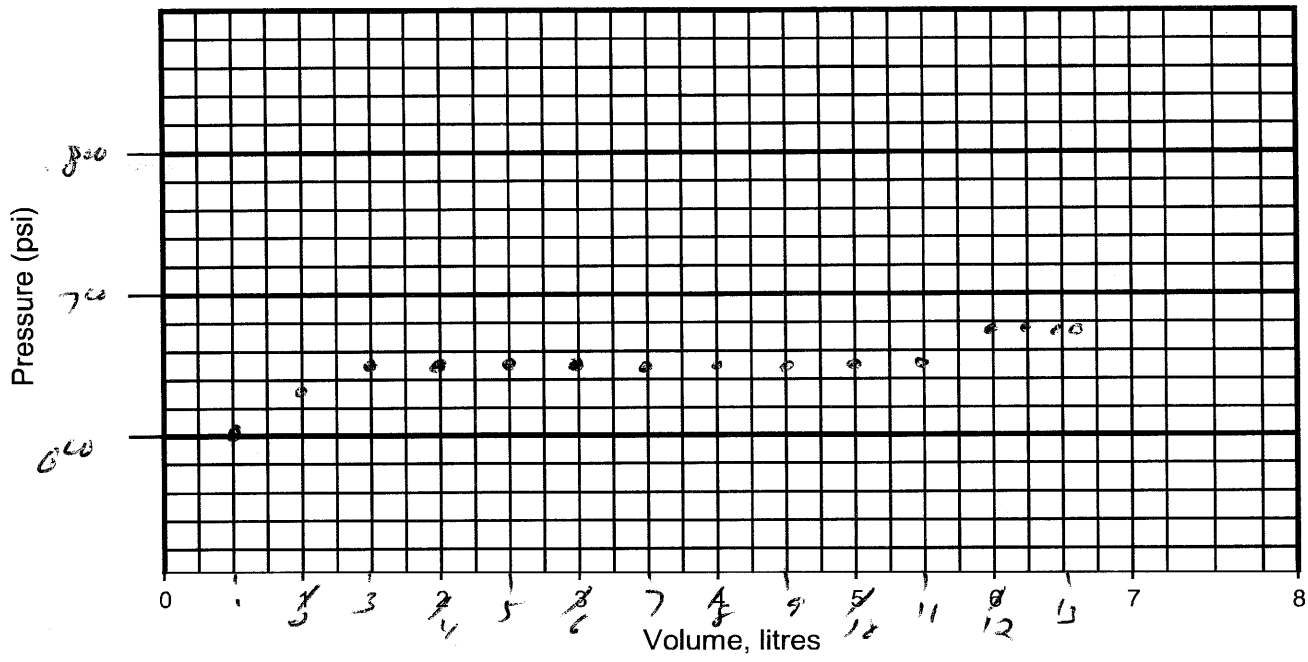
Packer No. 6 - 385 Depth (ft / m): 117 Inflation Tool No.: 714 1687

Packer Valve Pressure, P_V: 1870 psi Final Line Pressure, P_L: 675 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 60 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 12 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	600	625	650	650	650	650	650	650	650	650
Volume, litres	11.0	12.0	12.5	13.0	13.25	/	13.6			
Pressure, psi	650	650	650	650	675	/	0			



Comments: Packer # 6 Time - 12:48

Sheet 2 of 2

Westbay Packer Inflation Record

Project: Dane County PFAS Project No.: FS1370 Well No.: MP-01

Location: Rockgen Energy Completed by: GS Date Inflated: 11/15/21

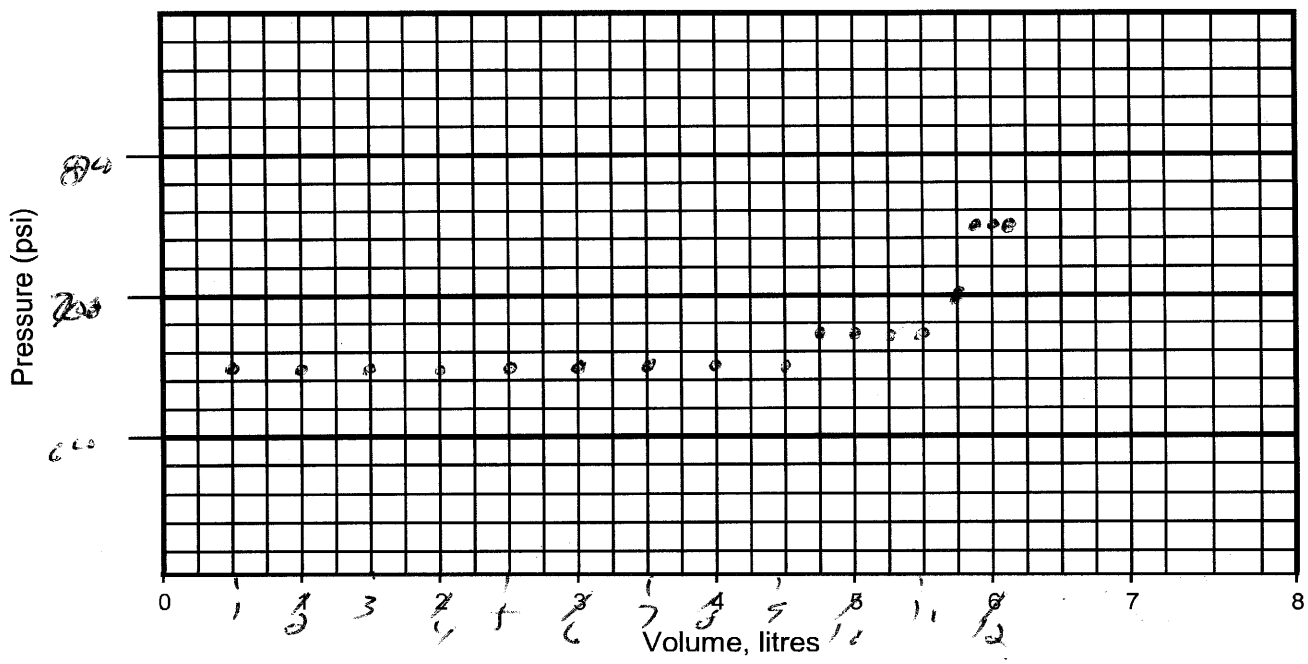
Packer No. 7 - 987 Depth (ft / m): 87 Inflation Tool No.: 1057

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 750 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 69 (ft / m) = 27 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 112 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	650	650	650	650	650	650	650	650	650	675
Volume, litres	10.0	10.5	11.0	11.5	11.75	12.0	12.25	/	12.5	
Pressure, psi	675	675	675	700	750	750	750	/	0	



Comments: Packer # 7 Time - 11:20

_____

_____

Sheet 8 of 8

Westbay Packer Inflation Record

Project: TRC – Dane Co. PFAS Project No.: FS1370 Well No.: MP-01

Location: Rockden Energy Completed by: CS Date Inflated: 11/15/21

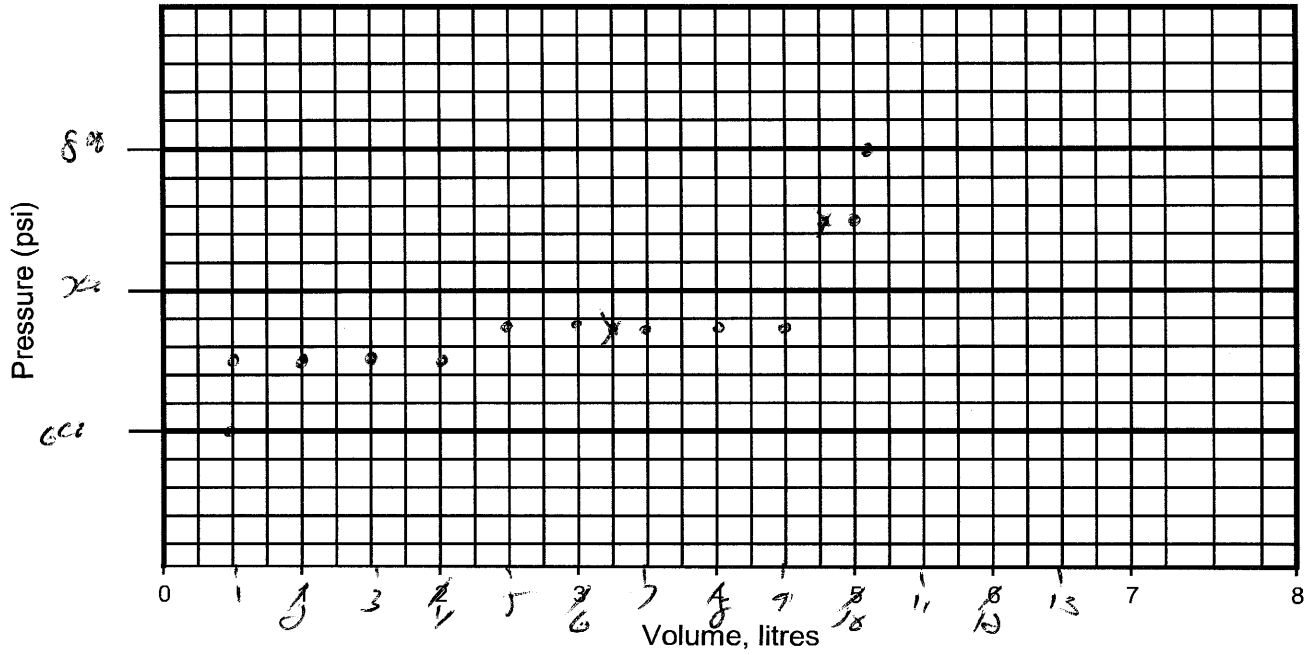
Packer No. 8 - 3566 Depth (ft / m): 47 Inflation Tool No.: TW 1088

Packer Valve Pressure, P_V: 1010 psi Final Line Pressure, P_L: 800 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 60 (ft / m) = 37 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	650	650	650	650	675	675	675	675	675	750
Volume, litres	10.20	/	9.90							
Pressure, psi	500	/	0							



Comments: Packer # 8 Time - 15:09

APPENDIX B – MP-02

As-Built Packer and Port Summary (Table 8)	- 1 Page
Summary Casing Log	- 3 Pages
Pre-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (November 11, 2021)	- 1 Pages
Figure 5, Pre-Inflation Piezometric Pressure Profile	- 1 Page
Post-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (November 12, 2021)	- 1 Pages
Figure 6, Post-Inflation Piezometric Pressure Profile	- 1 Page
Casing Installation Log	- 5 Pages
MP Packer Inflation Records	- 6 Pages

Table 8. MP-02 As-Built Packer and Port Summary

Port No.	Zone	Measurement Port Depth (ft)	Pumping Port Depth (ft)	Depth to Top of Packer (ft)	Top of Zone (ft)	Bottom of Zone (ft)	Comments
6	6	285.0	290.0	275.0	279.3	300.0	
5	5	264.0	269.0	249.0	253.3	276.3	
4	4	234.0	239.0	219.0	223.3	250.3	
3	3	204.0	209.0	194.0	198.3	220.3	
2	2	174.0	184.0	149.0	153.3	195.3	
1	1	119.0	139.0	-	SWL	150.3	

All depth measurements in feet below ground surface (bgs).

All depth measurements use 'Nominal' tubing lengths.

Not corrected for borehole deviation or borehole temperature effects.

All depth measurement to upper edge of Westbay System coupling item.

Summary Casing Log

Company: TRC
Well: MP-02
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 300.16 ft.

Borehole Depth: 300.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-02.WWD
Report Date: Sat Nov 06 23:29:59 2021

File Date: Nov 06 21:42:13 2021

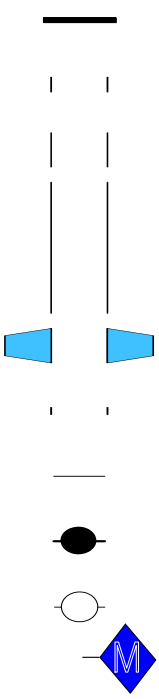
Sketch of Wellhead Completion

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(1) 020102 - MP38 Casing 3 (2F/0.6M)

(8) 020105 - MP38 Casing 2 (5F/1.5M)

(24) 020110 - MP38 Casing 1 (10F/3M)

(5) 0235 - MP38 Packer 100mm (5F/1.5M)

(1) 020101 - MP38 Casing 4 (1F/0.3M)

(27) 0202 - MP38 Regular Coupling

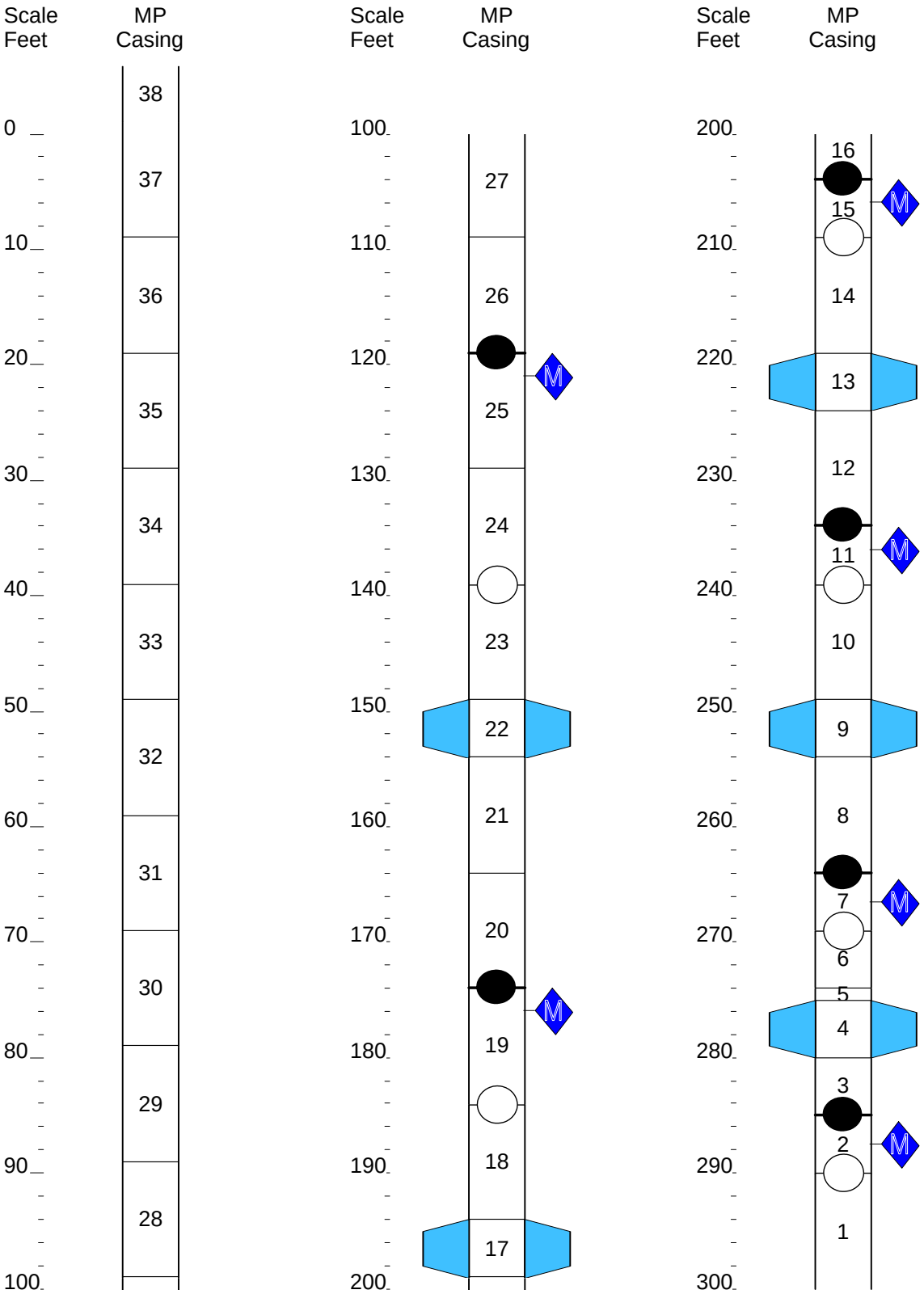
(6) 0205 - MP38 Measurment Port

(6) 0224 - MP38 Pumping Port

(6) 0216 - Magnetic Location Collar

Well Designer Report
TRC

Job No: FS1370
Well: MP-02



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP-02
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: —
Elev. top of Westbay Casing: —
Reference Elevation: GS
Borehole angle: 90°

Probe Type: Sampler
Serial No.: 1761
Probe Range: 0-250
Westbay Casing Type: MP38
Sampler Valve Position: C16x2

Date: 11/11/2021
Client: TRC - Rockaway
Job No.: F5132
Location: Rockaway
Weather: Rain
Operator: George Seidman

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

P_{atm} 14.01 psi

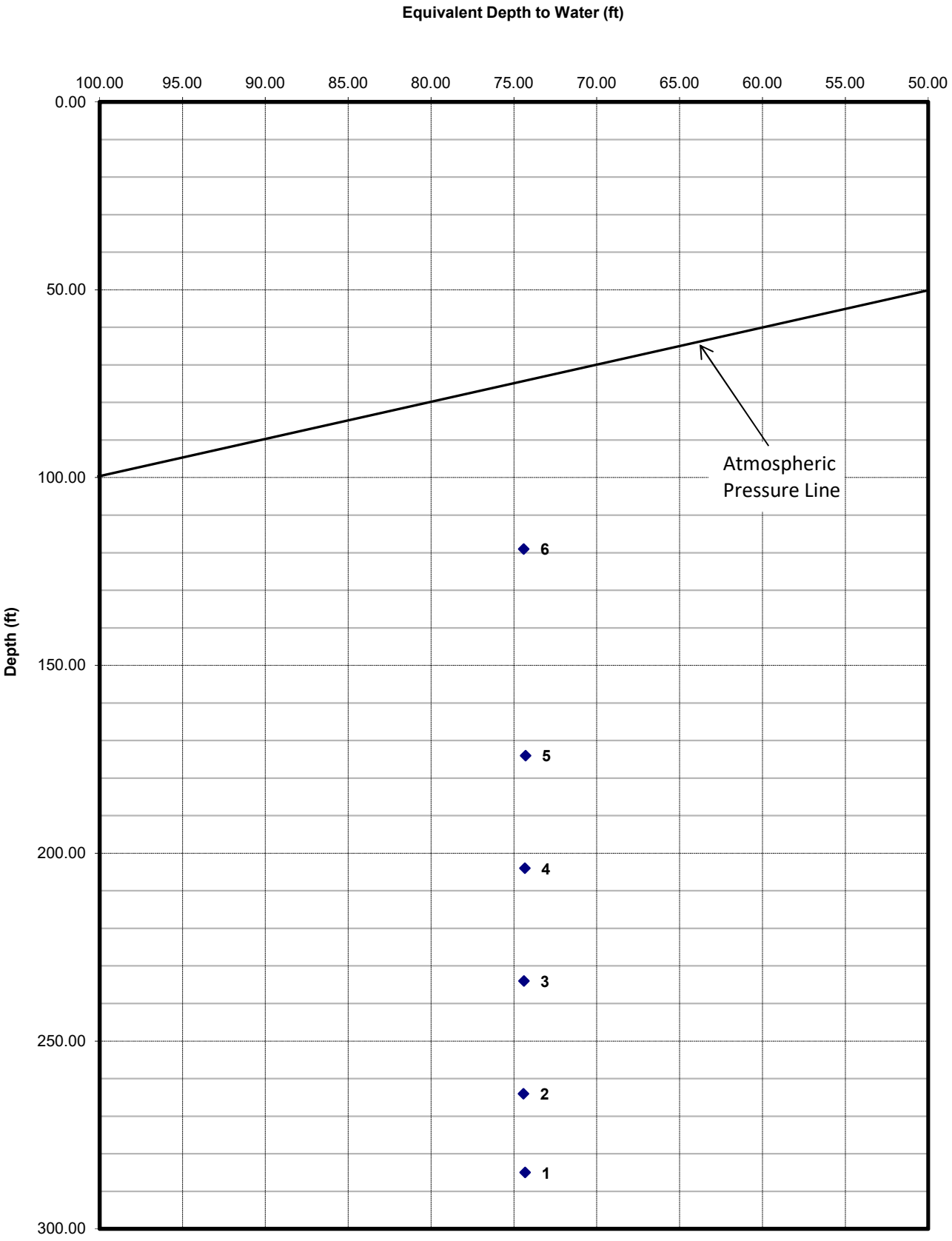
Ambient Reading (P_{atm}) (pressure, temperature, time)

		Start	Finish
Pressure		14.01	14.07
Temp		11.21	10.58
Time		8:44	8:59

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
6	285	283.5	—	47.82	105.34	8:47	10.47	47.82	210.80	74.80	Pre Inflate
5	204	202.5	—	38.70	96.19	8:49	10.49	38.70	189.57	74.43	
4	234	233	—	25.65	83.20	8:51	10.59	25.68	159.61	74.39	
3	204	203	—	14.05	70.22	8:52	10.72	14.02	129.67	74.33	
2	174	173	—	14.02	57.23	8:54	10.77	14.01	99.70	74.30	
1	119	118.5	—	13.99	33.34	8:56	10.85	13.98	44.59	74.41	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 5
Well: MP-02
Pre-Inflation Pressure Profile



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP-02
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: —
Elev. top of Westbay Casing: —
Reference Elevation: GS
Borehole angle: 90°

Probe Type: Sampler
Serial No.: 0-250
Probe Range: 1761
Westbay Casing Type: MP38
Sampler Valve Position: Closed

Date: 11/12/01
Client: TRC
Job No.: PS1370
Location: Rockaway
Weather: —
Operator: GS

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

Ambient Reading (P_{atm}) (pressure, temperature, time)

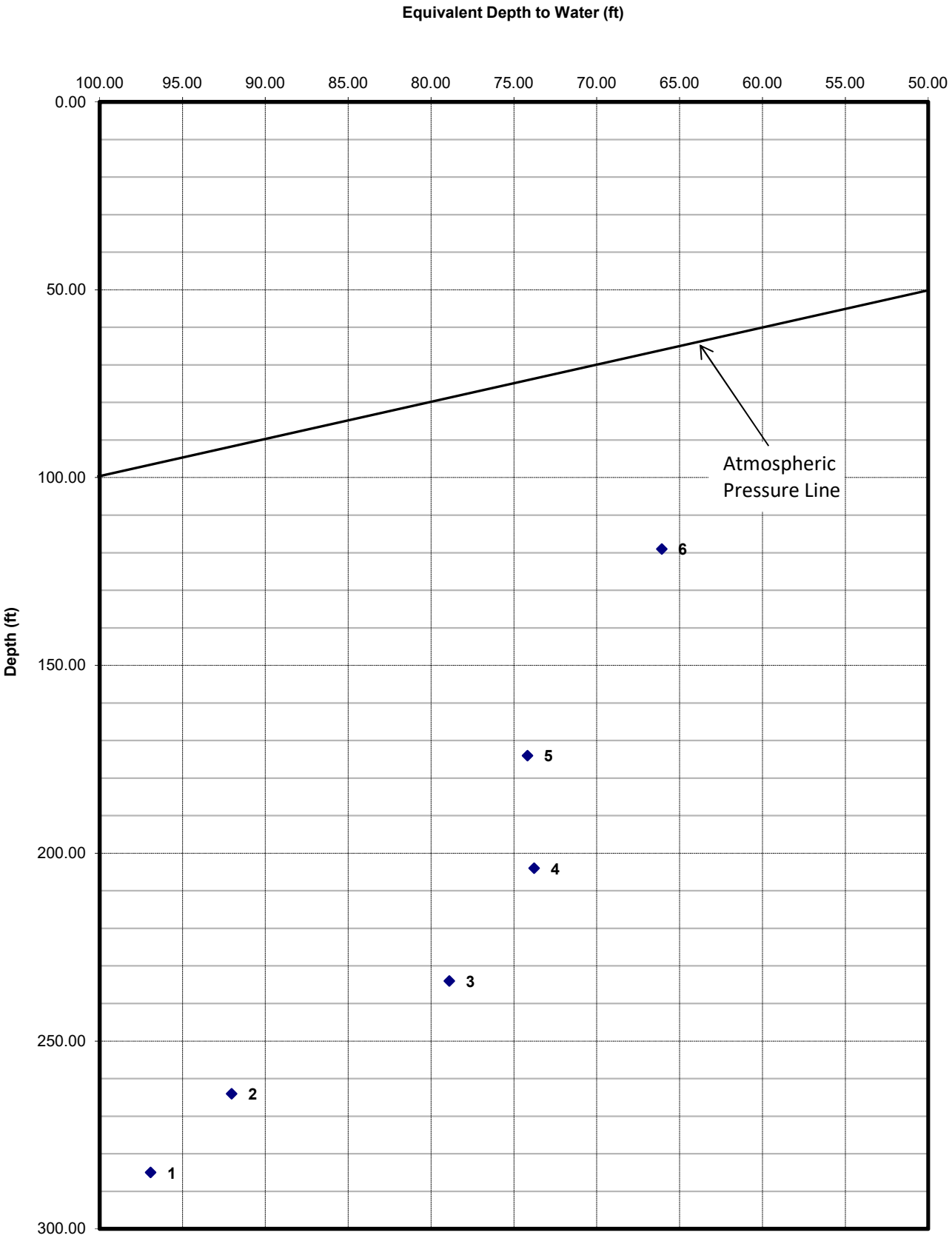
		Start:	Finish:
Pressure	psi	14.63	14.64
Temp	°C	10.3	10.30
Time		11:25	11:57

P_{atm} 14.63 psi

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
6	985	294.7	—	81.86	95.56	11:44	7.03	81.86	188.07	96.93	Post Inflate
5	264	263.8	—	72.74	88.58	11:46	8.61	72.74	171.97	92.03	
4	234	233.9	—	59.72	81.27	11:48	9.28	59.72	155.11	78.89	
3	204	204	—	46.69	70.48	11:50	9.72	46.69	130.22	73.78	
2	174	174.1	—	33.63	57.30	11:52	10.08	33.64	99.82	74.18	
1	119	119.2	—	14.13	36.97	11:54	10.41	14.13	52.92	66.08	Pressure in P2 is slowly rising

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 6
Well: MP-02
Post-Inflation Pressure Profile



Casing Installation Log

Company: TRC
Well: MP-02
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 300.16 ft.

Borehole Depth: 300.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-02.WWD
Report Date: Sat Nov 06 10:27:12 2021

File Date: Nov 05 22:51:10 2021

Comments

Client requests filter socks

Log Information

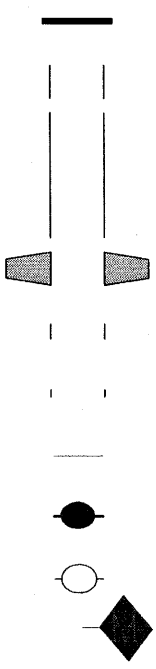
Borehole condition confirmed.	(method) Logging	Date: 11/8/21
MP well design & preparation.	By: [illegible]	Date: 11/8/21
MP well design checked.	By: [illegible]	Date: 11/8/21
MP well and borehole approved to install.	By: [illegible]	Date: 11/8/21

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(14) 020105 - MP38 Casing 2 (5F/1.5M)

(18) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(5) 020102 - MP38 Casing 3 (2F/0.6M)

(1) 020101 - MP38 Casing 4 (1F/0.3M)

(30) 0202 - MP38 Regular Coupling

(8) 0205 - MP38 Measurment Port

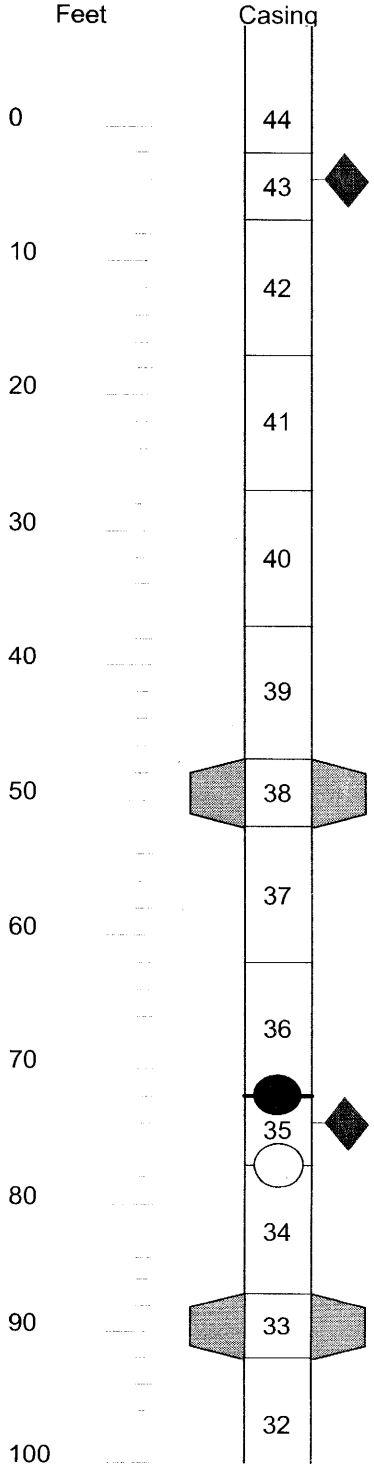
(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

(c) Westbay Instruments Inc. 2000

Well Designer Report
TRC

Job No: FS1370
Well: MP-02



QA Tested OK	MP Casing Description
	020105 - MP38 Casing 2 (5F/1.5M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	0235 - MP38 Packer 100mm (5F/1.5M
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	0205 - MP38 Measurment Port 020105 - MP38 Casing 2 (5F/1.5M) 0224 - MP38 Pumping Port
	020110 - MP38 Casing 1 (10F/3M)
	0235 - MP38 Packer 100mm (5F/1.5M
	020110 - MP38 Casing 1 (10F/3M)

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Well Designer Report
TRC

Job No: FS1370
Well: MP-02

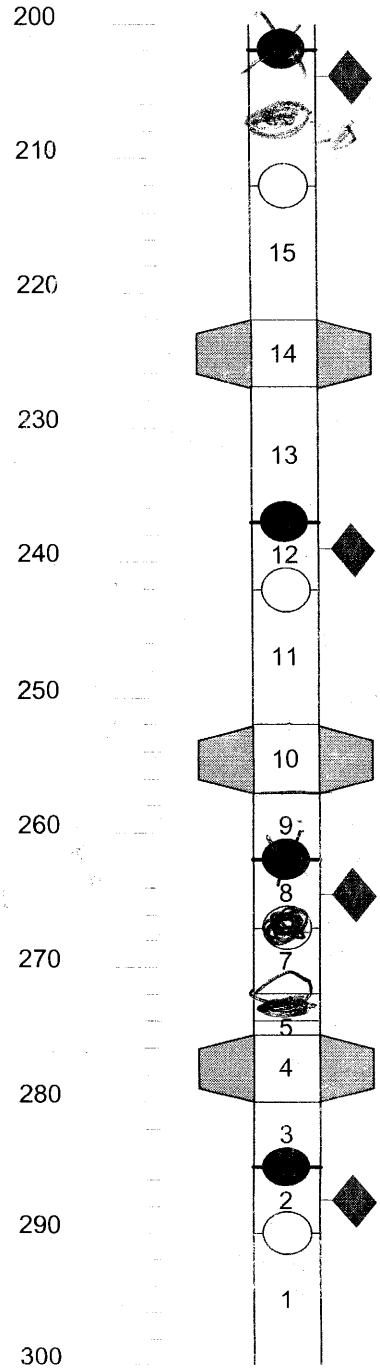
Scale Feet	MP Casing	QA Tested OK	MP Casing Description
100			
	31		0205 - MP38 Measurment Port
			020105 - MP38 Casing 2 (5F/1.5M)
			0224 - MP38 Pumping Port
110			
	30		020110 - MP38 Casing 1 (10F/3M)
	29		020102 - MP38 Casing 3 (2F/0.6M) 9917
120	28		020101 - MP38 Casing 4 (1F/0.3M)
	27		0235 - MP38 Packer 100mm (5F/1.5M
130			
	26		020110 - MP38 Casing 1 (10F/3M)
	25		0205 - MP38 Measurment Port
			020105 - MP38 Casing 2 (5F/1.5M)
140			0224 - MP38 Pumping Port 9188
	24		020110 - MP38 Casing 1 (10F/3M)
150			
	23		0235 - MP38 Packer 100mm (5F/1.5M 554 170/150
			0000
160	10' 22		020110 - MP38 Casing 1 (10F/3M)
			0205 - MP38 Measurment Port 9977
170	21		020110 - MP38 Casing 1 (10F/3M)
			0224 - MP38 Pumping Port 9192
180	20		020110 - MP38 Casing 1 (10F/3M)
	19		020102 - MP38 Casing 3 (2F/0.6M)
190	18		0235 - MP38 Packer 100mm (5F/1.5M 552 165/140
	17		020110 - MP38 Casing 1 (10F/3M)
200			

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Sat Nov 06 10:26:17 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-02



Sheet 1 of 5

Westbay Packer Inflation Record

Project: TRC - Dane Co. PFAS Project No.: FS1370 Well No.: MP-02

Location: Rockton Completed by: CT Date Inflated: 11/16/21

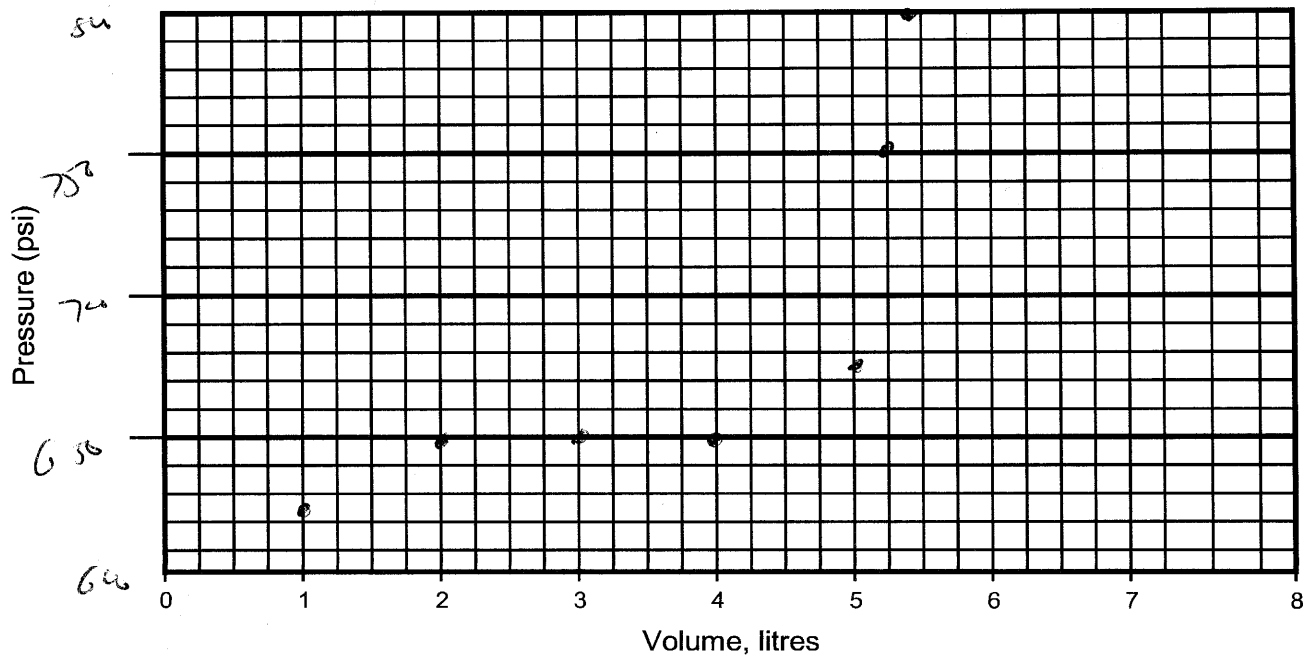
Packer No. 1 Depth (ft / m): 275 Inflation Tool No.: TIT 1033

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: ~~725~~ psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 74 (ft / m) = 32 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 132 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	5.25 60	5.50 70	~~6.0~~	7.0 ~~80~~	
Pressure, psi	625	650	650	650	675	750	~~775~~	/	0	
Volume, litres										
Pressure, psi										



Comments: Packer # 1 Time - 10:18

Sheet 2 of 5

Westbay Packer Inflation Record

Project: TRC-Dan County Phase Project No.: F51376 Well No.: MP-07

Location: Rockford Completed by: CS Date Inflated: 11/1/21

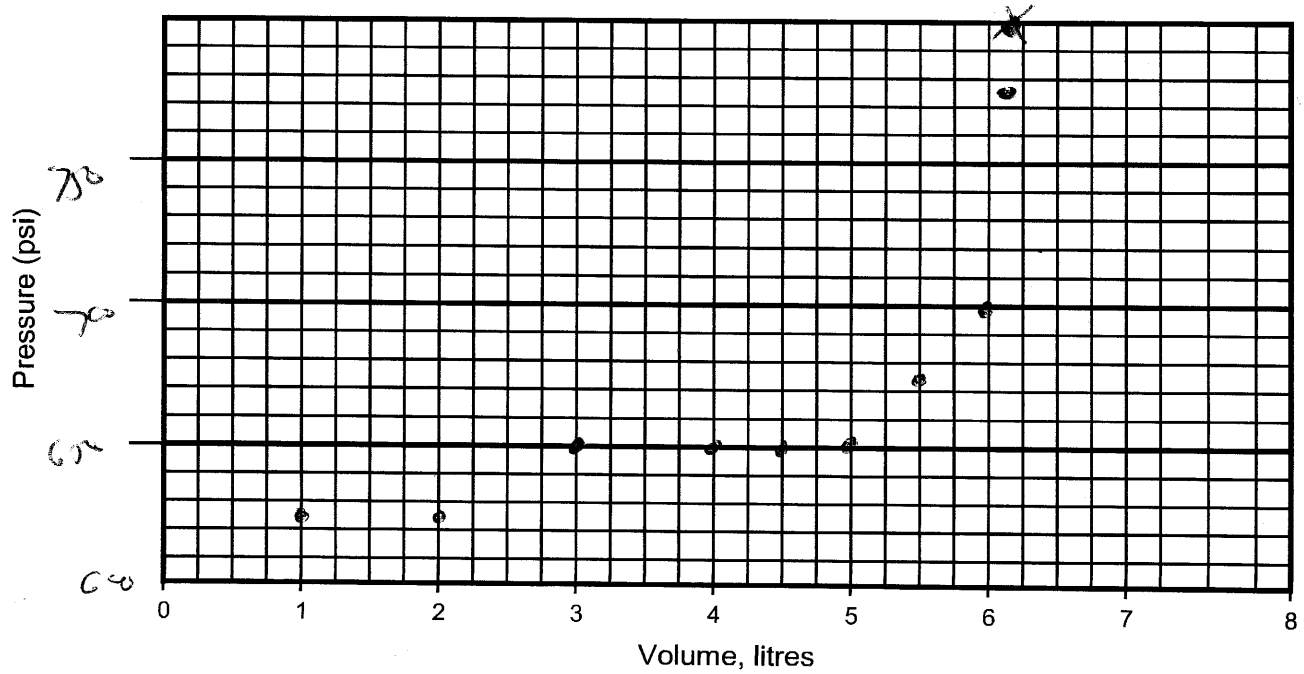
Packer No. 2 -6.06 Depth (ft / m): 149 Inflation Tool No.: TIW 1037

Packer Valve Pressure, P_V: 146 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 74 (ft / m) = 32 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 142 psi

Volume, litres	1.0	2.0	3.0	4.0	4.5	5.0	5.50	6.0	6.20	6
Pressure, psi	625	625	625	625	625	625	625	700	775	6
Volume, litres										
Pressure, psi	6									



Comments: Packer # 2 Time - 10:44

Sheet 3 of 5

Westbay Packer Inflation Record

Project: IRC - Dane Co. PFAS Project No.: FS1370 Well No.: MP-02

Location: Rockgen Energy Completed by: CS Date Inflated: 11/11/21

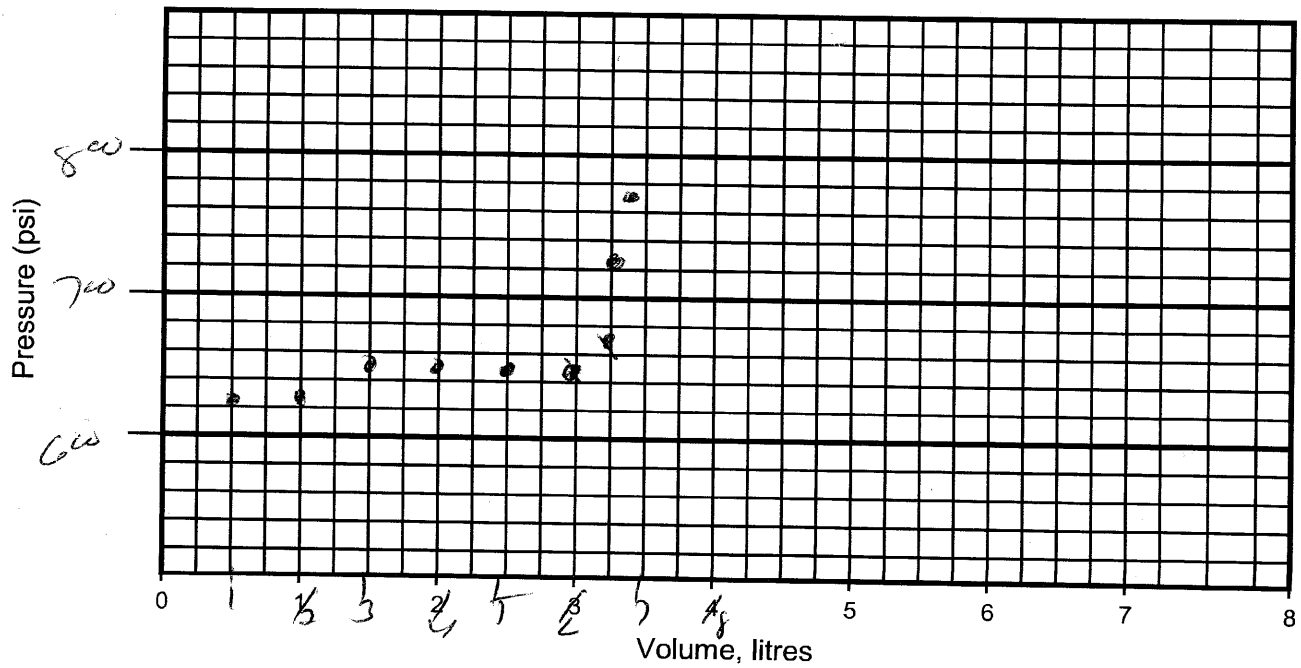
Packer No. 3 - 582 Depth (ft / m): 20 Inflation Tool No.: UW 1038

Packer Valve Pressure, P_V: 145 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 74 (ft / m) = 32 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	6.30	6.65	/	6.21
Pressure, psi	625	625	600	650	650	650	725	775	/	X
Volume, litres										
Pressure, psi										



Comments: Packer # 3 Time - 1103

Sheet 4 of 5

Westbay Packer Inflation Record

Project: TRC – Dane Co. PFAS Project No.: FS1370 Well No.: MP-03

Location: RockGen Energy Completed by: AS Date Inflated: 11/11/21

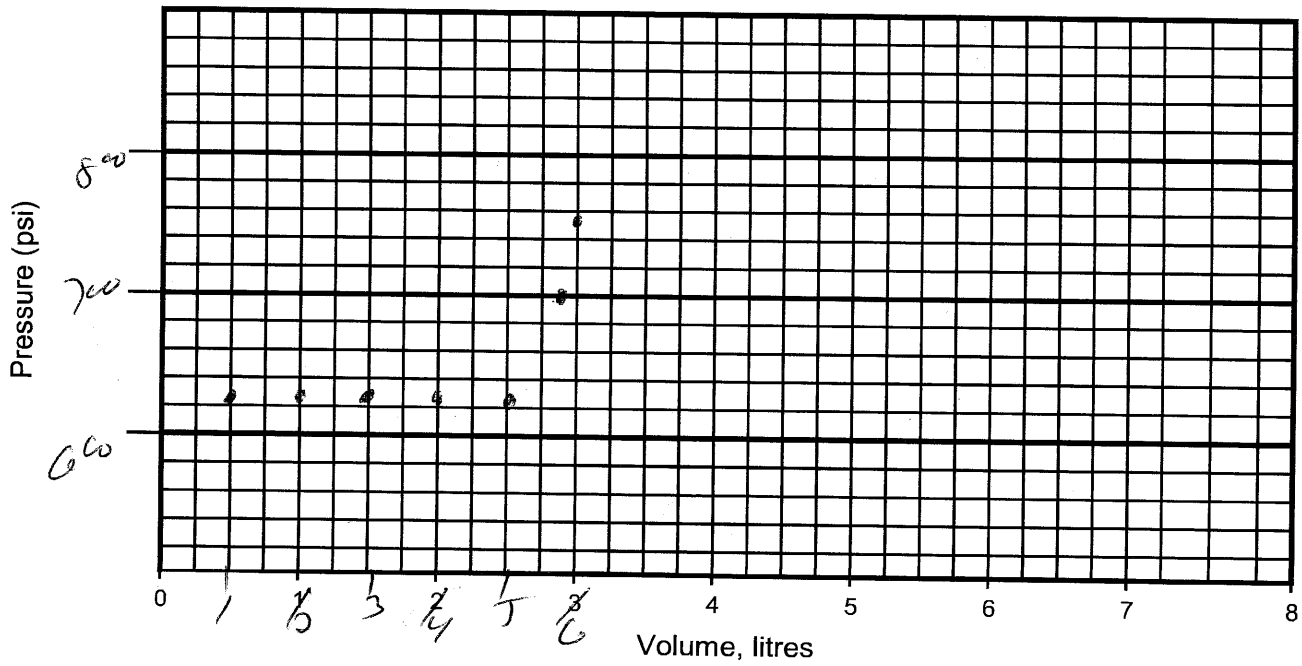
Packer No. 4-532 Depth (ft / m): 194 Inflation Tool No.: 7U, [illegible]

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 525 psi

Borehole Water Level: 74 (ft / m) = 32 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 142 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	5.75	6.00	/	5.65	
Pressure, psi	625	625	625	625	625	700	775	/	ℓ	
Volume, litres										
Pressure, psi										



Comments: Packer # 4 Time - 11:34

Sheet 1 of 1

Westbay Packer Inflation Record

Project: TRC - Dane Co. PFAS Project No.: FS1370 Well No.: MP-02

Location: RockGen Energy Completed by: GS Date Inflated: 11/16/21

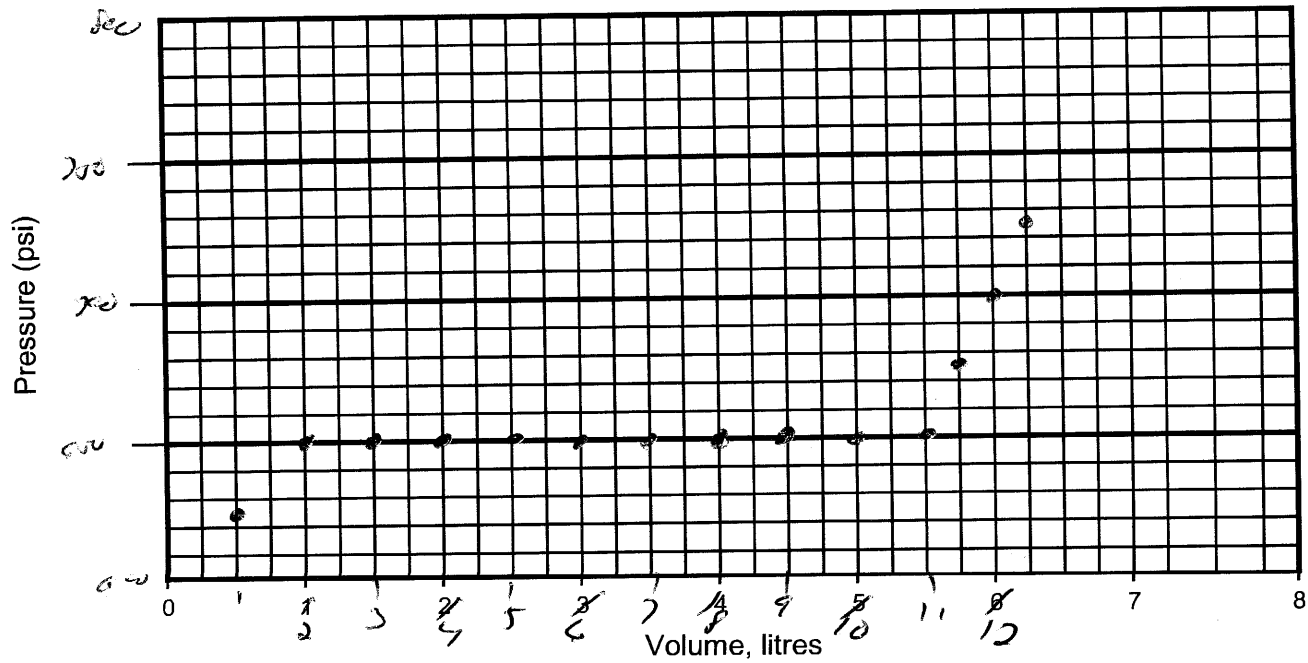
Packer No. 5 - 584 Depth (ft / m): 149 Inflation Tool No.: DW 1038

Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 74 (ft / m) = 32 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 157 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	650	650	650	650	650	650	650	650	650
Volume, litres	11.0	11.5	12.0	12.5	12.9	/	13.50			
Pressure, psi	650	675	700	725	775	/	/			



Comments: Packer # 5 Time - 1509

APPENDIX C – MP-03

As-Built Packer and Port Summary (Table 9)	- 1 Page
Summary Casing Log	- 3 Pages
Pre-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (November 19, 2021)	- 1 Pages
Figure 7, Pre-Inflation Piezometric Pressure Profile	- 1 Pages
Post-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (November 22, 2021)	- 1 Pages
Figure 8, Post-Inflation Piezometric Pressure Profile	- 1 Pages
Casing Installation Log	- 5 Pages
MP Packer Inflation Records	- 8 Pages

Table 9. MP-03 As-Built Packer and Port Summary

Port No.	Zone	Measurement Port Depth (ft)	Pumping Port Depth (ft)	Depth to Top of Packer (ft)	Top of Zone (ft)	Bottom of Zone (ft)	Comments
8	8	281.0	286.0	276.0	280.3	300.0	
7	7	261.0	266.0	241.0	245.3	277.3	
6	6	231.0	236.0	216.0	220.3	242.3	
5	5	201.0	206.0	186.0	190.3	217.3	
4	4	171.0	176.0	156.0	160.3	187.3	
3	3	141.0	147.0	116.0	120.3	157.3	
2	2	99.0	105.0	79.0	83.3	117.3	
1	1	62.0	67.0	42.0	46.3	80.3	

All depth measurements in feet below ground surface (bgs).

All depth measurements use 'Nominal' tubing lengths.

Not corrected for borehole deviation or borehole temperature effects.

All depth measurement to upper edge of Westbay System coupling item.

Summary Casing Log

Company: TRC
Well: MP-03
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 296.16 ft.

Borehole Depth: 300.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-03.WWD
Report Date: Sun Nov 07 02:04:45 2021

File Date: Nov 07 01:44:08 2021

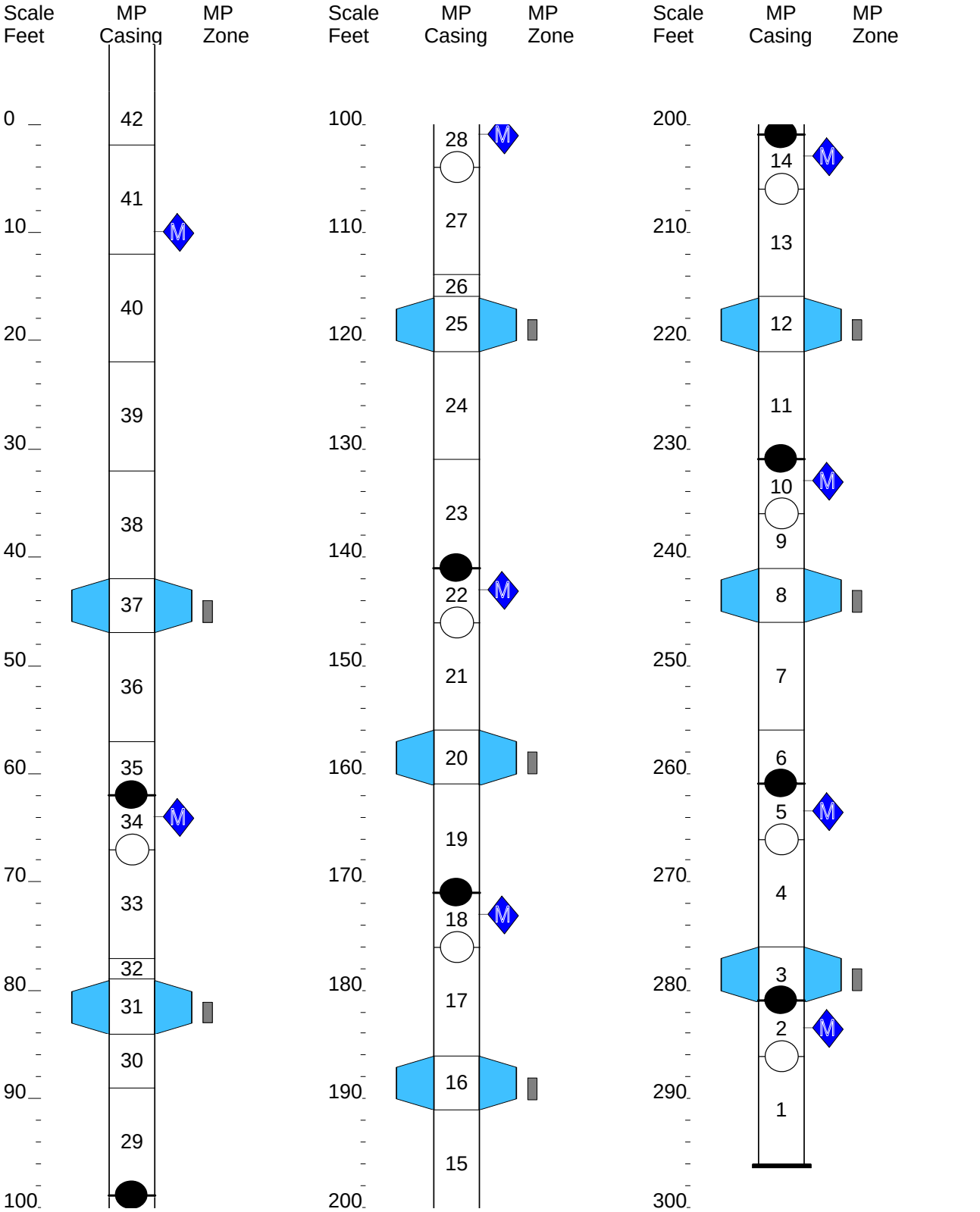
Sketch of Wellhead Completion

Legend

(Qty) MP Components (Library - WD Library 7/27/00)	Geology	Backfill/Casing
(2) 0203 - MP38 End Cap		
 (14) 020105 - MP38 Casing 2 (5F/1.5M)		
 (19) 020110 - MP38 Casing 1 (10F/3M)		
 (8) 0235 - MP38 Packer 100mm (5F/1.5M)		
 (2) 020102 - MP38 Casing 3 (2F/0.6M)		
(27) 0202 - MP38 Regular Coupling		
 (8) 0205 - MP38 Measurment Port		
 (8) 0224 - MP38 Pumping Port		
 (9) 0216 - Magnetic Location Collar		

Well Designer Report
TRC

Job No: FS1370
Well: MP-03



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP03
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: 8.01
Elev. top of Westbay Casing: —
Reference Elevation: GS
Borehole angle: 90°

Probe Type: Sampler
Serial No.: 1201
Probe Range: 0-200
Westbay Casing Type: MP38
Sampler Valve Position: Closed

Date: 11/19/01
Client: TRC
Job No.: FS1370
Location: Rock Cut
Weather: PC 28°F
Operator: GS

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

Ambient Reading (P_{atm}) (pressure, temperature, time)

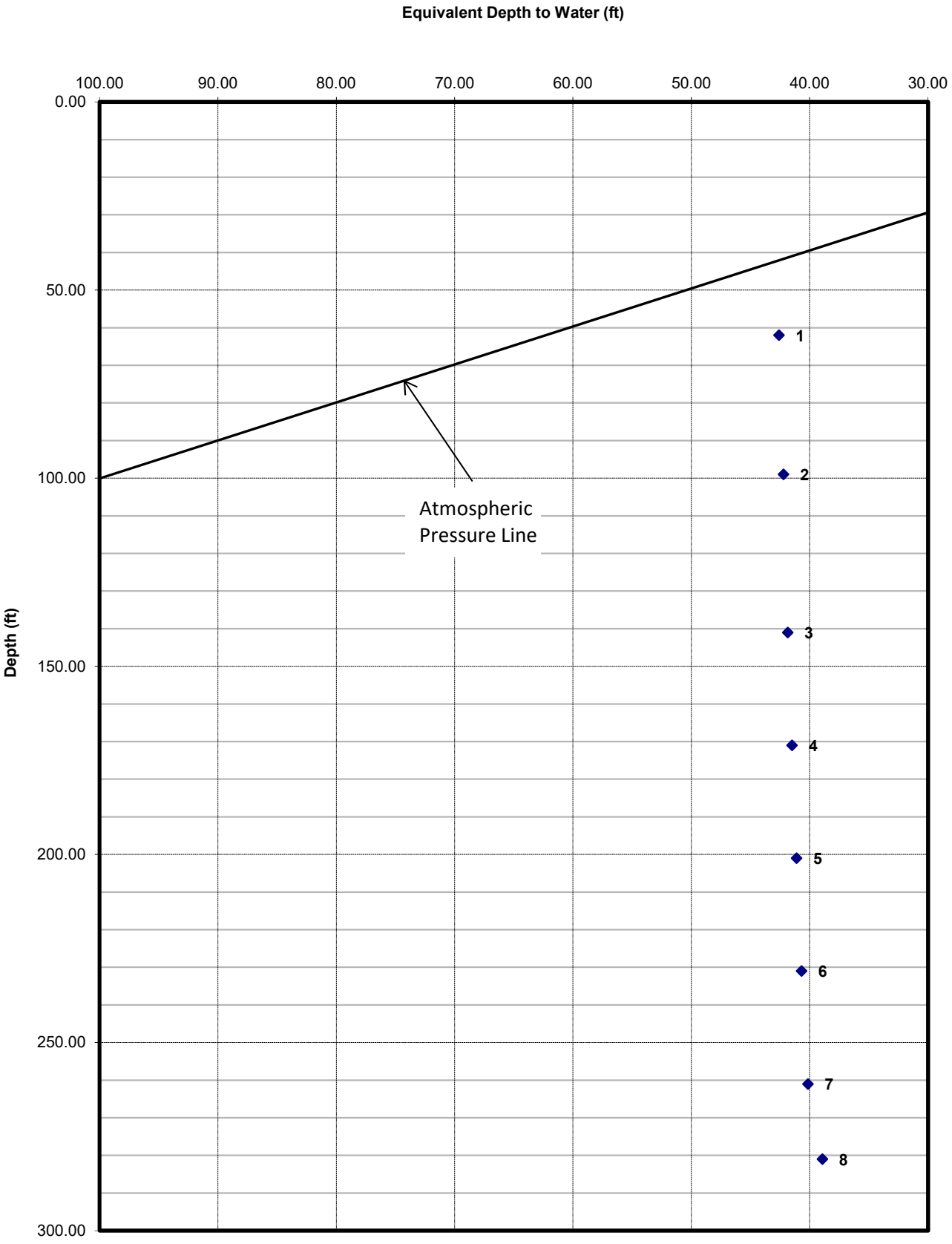
		Finish:
Start: Pressure	14.47	14.46
Temp	13.22	10.57
Time	10:20	10:36

P_{atm} 14.47 psi

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	281	281.2	—	67.62	117.41	10:22	10.44	67.62	241.41	39.59	Falling Pre Inflation
7	241	241.2	—	58.93	110.21	10:24	10.37	58.93	220.85	40.15	
6	231	231.2	—	45.88	96.97	10:26	10.33	45.88	190.31	40.69	
5	201	201.2	—	32.84	83.78	10:28	10.26	32.84	159.58	41.16	
4	171	171.2	—	19.78	70.61	10:30	10.23	19.78	129.50	41.50	
3	141	141.2	—	14.56	57.45	10:32	10.28	14.55	99.15	41.85	
2	99	99.2	—	14.53	39.09	10:33	10.36	14.53	56.79	42.21	
1	62	62.2	—	14.51	22.88	10:35	10.50	14.51	19.40	42.60	Dry 158.37

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 7
Well: MP-03
Pre-Inflation Pressure Profile



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Well No.: MP-03
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: 81
Elev. top of Westbay Casing: —
Reference Elevation: GS
Borehole angle: 90°

Probe Type: Sample
Serial No.: 1741
Probe Range: 0-350
Westbay Casing Type: MP31
Sampler Valve Position: Closed

Date: 11/22/01
Client: MPL
Job No.: FST370
Location: Rockbar
Weather: PC 30°F
Operator: GS

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

Ambient Reading (P_{atm}) (pressure, temperature, time)

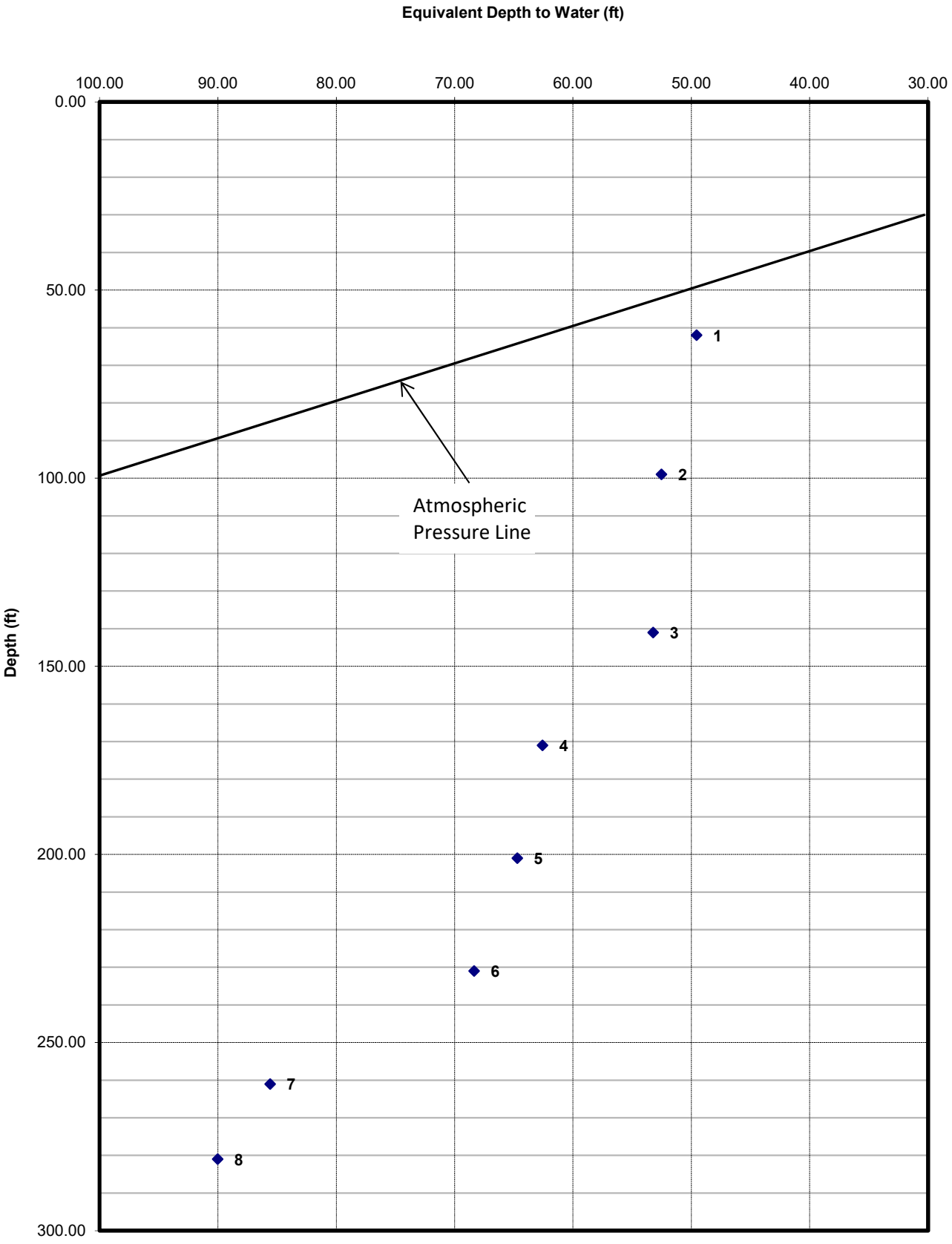
		Start:	Finish:
Pressure		14.37	14.33
Temp		10.65	11.18
Time		15:44	16:20

P_{atm} 14.33 psi

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	281	278.7	—	109.09	97.12	15:48	10.14	109.08	190.98	90.02	Post mflam
7	261	258.8	—	100.40	90.37	15:50	10.25	100.39	175.41	85.59	
6	231	229	—	87.38	84.84	15:51	10.37	87.37	162.65	68.35	
5	201	199.1	—	74.34	73.41	15:53	10.49	74.34	136.29	64.71	
4	171	169.2	—	61.29	61.33	15:54	10.65	61.29	108.42	62.58	
3	141	139.3	—	48.26	52.38	15:56	10.86	48.24	87.77	53.23	
2	91	97.5	—	29.09	34.48	15:57	11.16	30.60	46.48	52.52	
1	60	60.7	—	14.38	19.72	15:59	11.49	14.38	12.43	49.57	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 8
Well: MP-03
Post-Inflation Pressure Profile



Casing Installation Log

Company: TRC
Well: MP-03
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 296.16 ft.

Borehole Depth: 300.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-03.WWD
Report Date: Sun Nov 07 02:18:47 2021

File Date: Nov 07 01:44:08 2021

Comments

Client requests filter sacks

Log Information

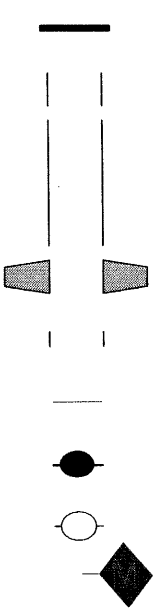
Borehole condition confirmed. (method) Logging Date: 11/15/21
MP well design & preparation. By: [illegible] Date: 11/18/21
MP well design checked. By: Matt Fall Date: 11/19/21
MP well and borehole approved to install. By: Matt Fall Date: 11/18/21

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(14) 020105 - MP38 Casing 2 (5F/1.5M)

(19) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(2) 020102 - MP38 Casing 3 (2F/0.6M)

(27) 0202 - MP38 Regular Coupling

(8) 0205 - MP38 Measurment Port

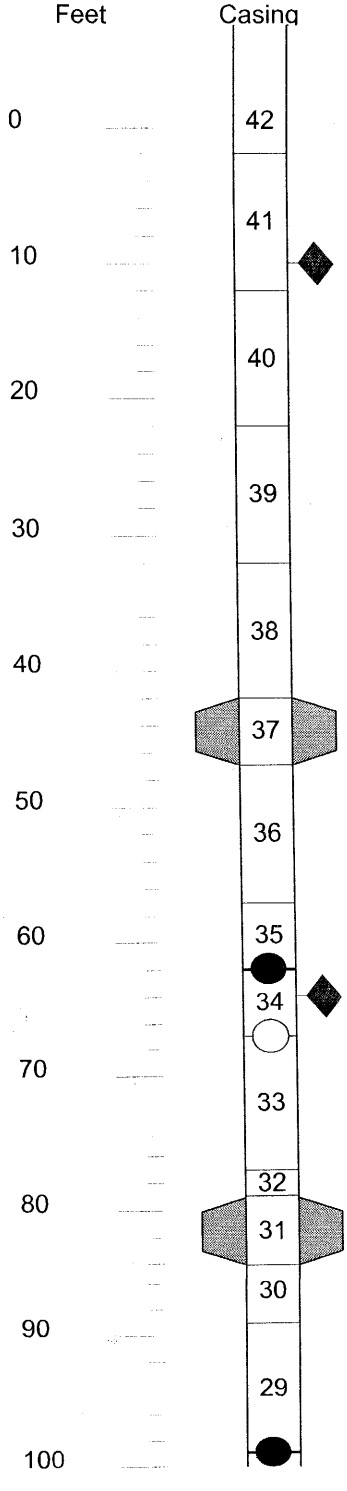
(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

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Well Designer Report
TRC

Job No: FS1370
Well: MP-03



MP Casing Description

020110 - MP38 Casing 1 (10F/3M)

020110 - MP38 Casing 1 (10F/3M)

020110 - MP38 Casing 1 (10F/3M)

020110 - MP38 Casing 1 (10F/3M)

0235 - MP38 Packer 100mm (5F/1.5M G03 105/140

020110 - MP38 Casing 1 (10F/3M)

020105 - MP38 Casing 2 (5F/1.5M)

0205 - MP38 Measurment Port 9737

020105 - MP38 Casing 2 (5F/1.5M)

0224 - MP38 Pumping Port 9207

020110 - MP38 Casing 1 (10F/3M)

020102 - MP38 Casing 3 (2F/0.6M)

0235 - MP38 Packer 100mm (5F/1.5M G021 175/130

020105 - MP38 Casing 2 (5F/1.5M)

020110 - MP38 Casing 1 (10F/3M)

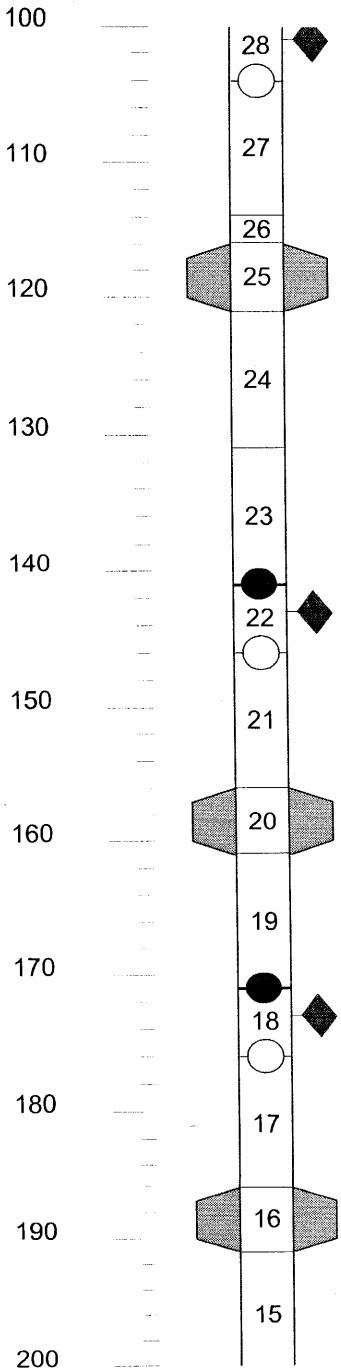
0205 - MP38 Measurment Port 9964

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Sun Nov 07 02:17:26 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-03

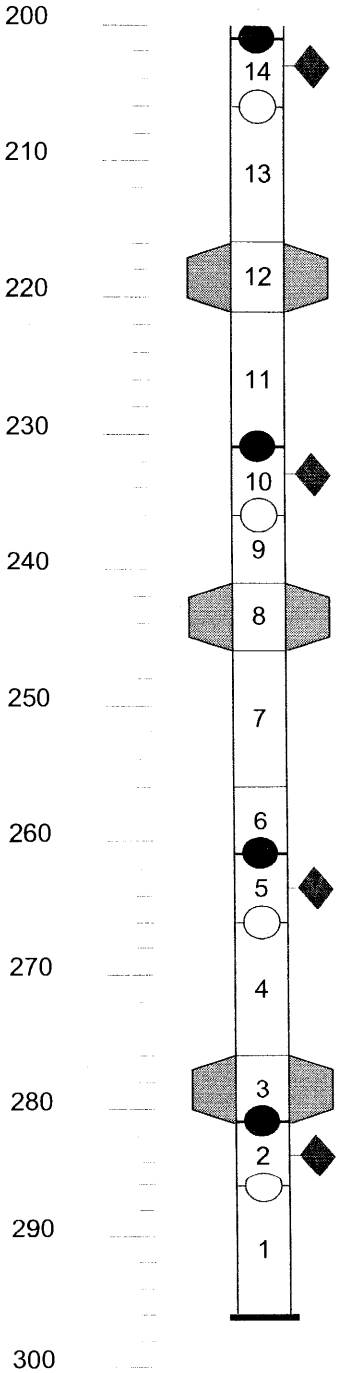


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Sun Nov 07 02:17:26 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-03



MP Casing Description

0205 - MP38 Measurment Port 9747
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9204

020110 - MP38 Casing 1 (10F/3M)

0235 - MP38 Packer 100mm (5F/1.5M 602 105/135

020110 - MP38 Casing 1 (10F/3M)

0205 - MP38 Measurment Port 9748
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9206
020105 - MP38 Casing 2 (5F/1.5M)

0235 - MP38 Packer 100mm (5F/1.5M 590 105/140

020110 - MP38 Casing 1 (10F/3M)

020105 - MP38 Casing 2 (5F/1.5M)
0205 - MP38 Measurment Port 9736
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9205

020110 - MP38 Casing 1 (10F/3M)

0235 - MP38 Packer 100mm (5F/1.5M 589 170/150
0205 - MP38 Measurment Port 9734
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9203

020110 - MP38 Casing 1 (10F/3M)

0203 - MP38 End Cap

(c) Westbay Instruments Inc. 2000

Sheet 1 of 8

Westbay Packer Inflation Record

Project: TRC - Dane Co PFAS Project No.: FS1070 Well No.: MP-3

Location: Rockgen Energy Completed by: GS Date Inflated: 11/19/21

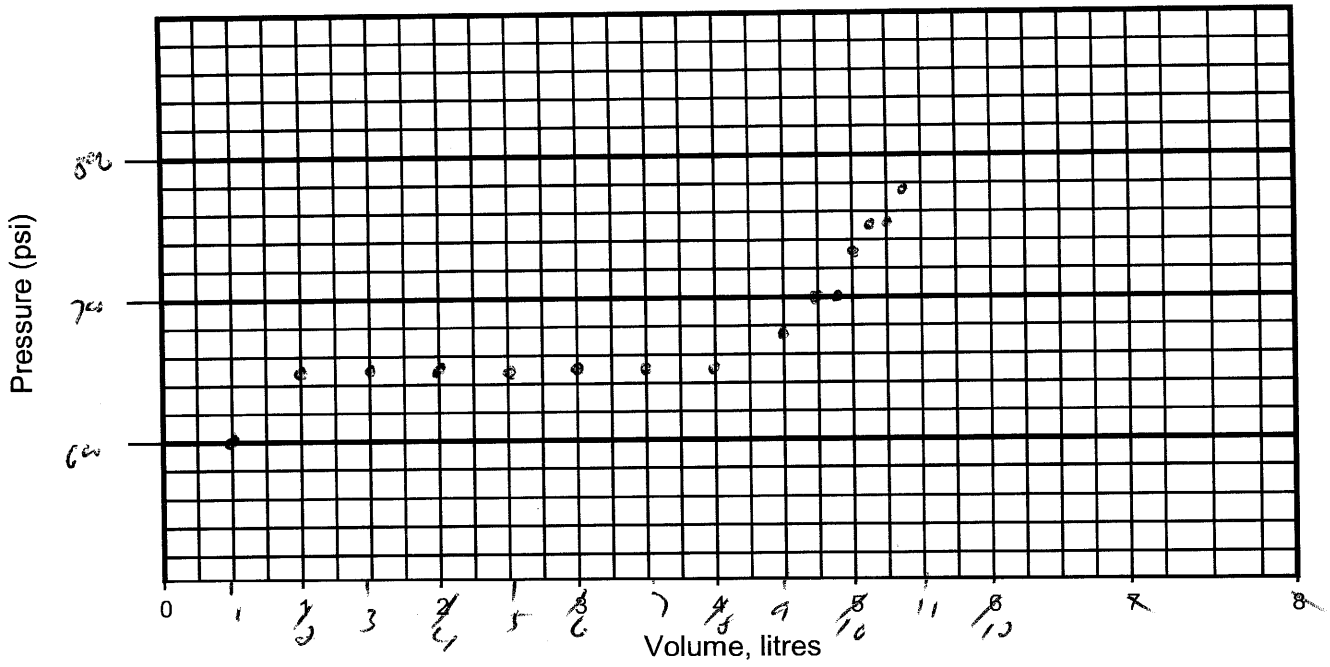
Packer No. 1 - 589 Depth (ft / m): 276 Inflation Tool No.: TIU 1088

Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 500 psi

Borehole Water Level: 41 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 143 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	660	650	650	650	650	650	650	650	675	700
Volume, litres	9.75	10.0	10.25	10.50	10.70	/	10.95			
Pressure, psi	700	725	750	750	775	/	?			



Comments: Packer # 1 Time - 11:14

Sheet 2 of 5

Westbay Packer Inflation Record

Project: TRC-Dan County PFAS Project No.: FS1370 Well No.: MP-03

Location: Rockgen Energy Completed by: CS Date Inflated: 11/19/21

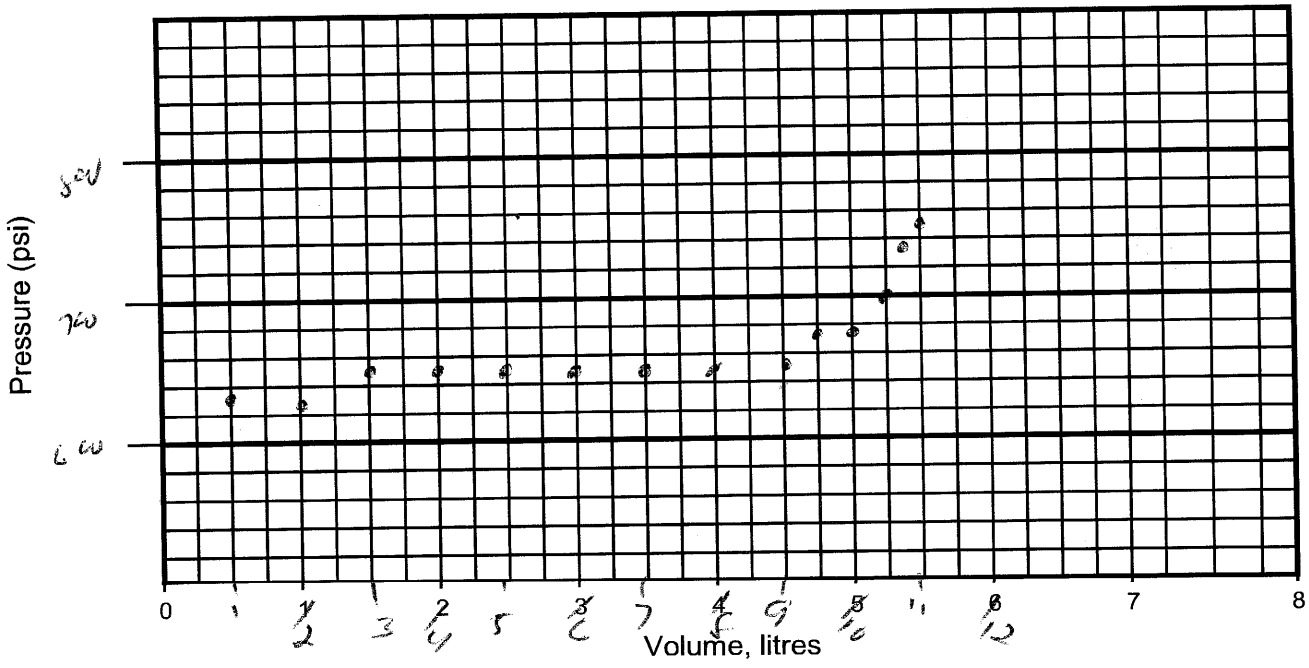
Packer No. 2 - 596 Depth (ft / m): 241 Inflation Tool No.: 7/W 1058

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 760 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 41 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 128 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	625	625	650	650	650	650	650	650	650	675
Volume, litres	10.0	10.5	10.75	11.0	11.25	/	11.4			
Pressure, psi	675	700	725	750	78	/	✓			



Comments: Packer # ~~1702~~ 2 Time - 10:02

Westbay Packer Inflation Record

Project: TRC Dan Co PFAS Project No.: FS1370 Well No.: MP-03

Location: Rock Creek Energy Completed by: CS Date Inflated: 11/19/21

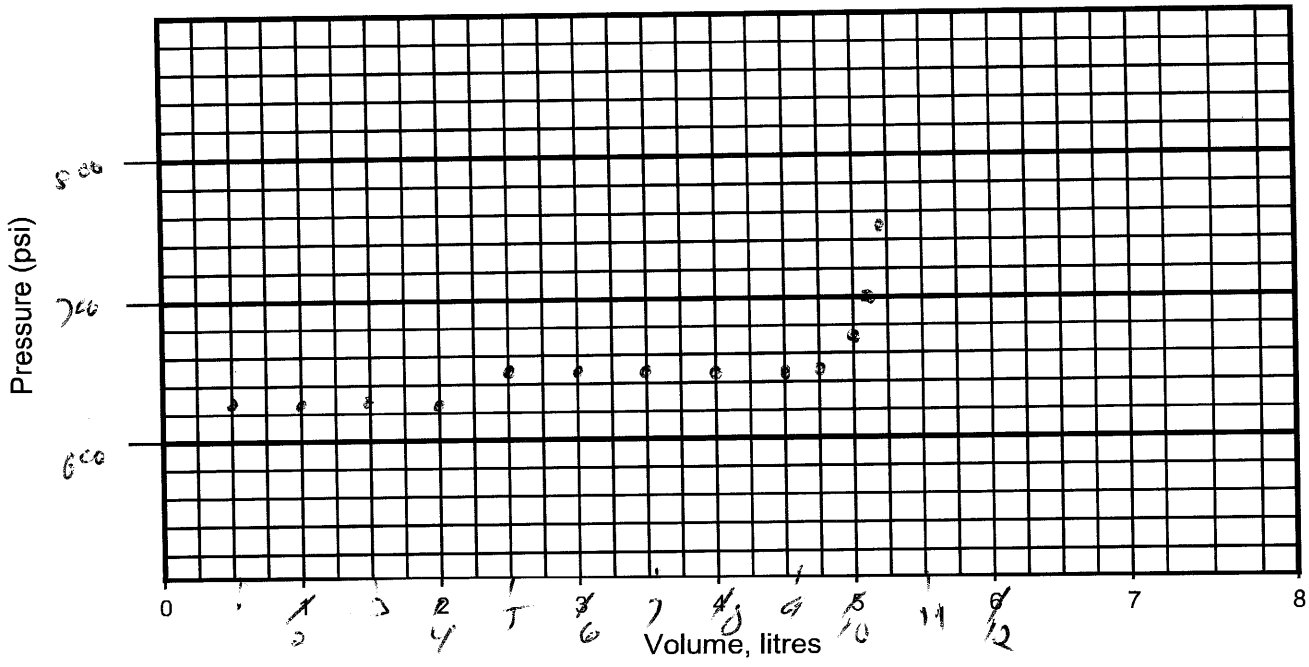
Packer No. 3 - 402 Depth (ft / m): 216 Inflation Tool No.: TIT 1033

Packer Valve Pressure, P_V: 135 psi Final Line Pressure, P_L: 750 psi Tool Pressure, P_T: 500 psi

Borehole Water Level: 611 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 133 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	625	625	625	625	650	650	650	650	650	650
Volume, litres	10.0	10.25	10.40	/	10.20					
Pressure, psi	675	700	750	/	6					



Comments: Packer # 3 Time - 13:22

Sheet 1 of 3

Westbay Packer Inflation Record

Project: TDRC – Dene Co PFN Project No.: FJ1376 Well No.: MP-2

Location: Rocklon Energy Completed by: CJ Date Inflated: 11/22/21

Packer No. 4 - 601 Depth (ft / m): 186 Inflation Tool No.: Tiwest

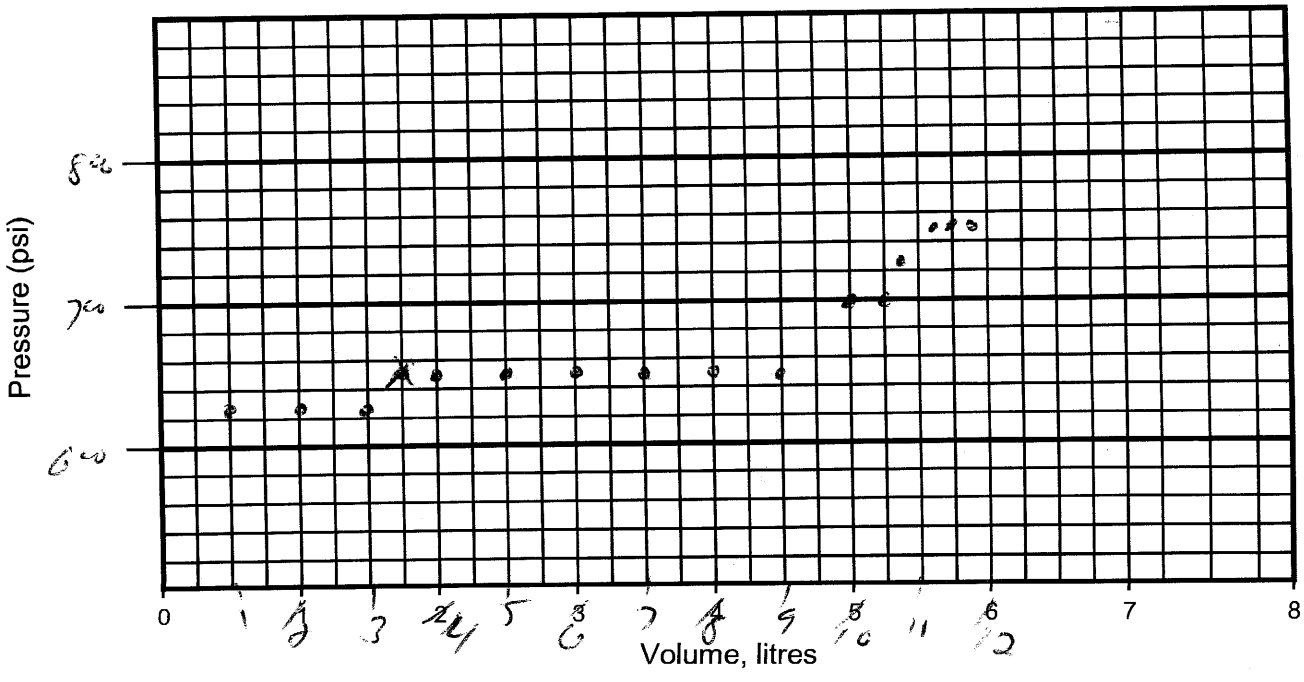
Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 728 psi Tool Pressure, P_T: 52 psi

Borehole Water Level: 61 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 128 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	625	625	650	650	650	650	650	650	700

Volume, litres	10.5	10.75	11.0	11.25	11.50	11.75	/	11.50		
Pressure, psi	700	725	725	750	750	750	/	∅		



Comments: Packer # 1 Time - 10:31

Sheet 5 of 8

Westbay Packer Inflation Record

Project: TRC-Dane Co. PFAS Project No.: FS1370 Well No.: MP-3

Location: Rubicon Energy Completed by: GJ Date Inflated: 11/22/21

Packer No. 5-600 Depth (ft / m): 136 Inflation Tool No.: 714 1688

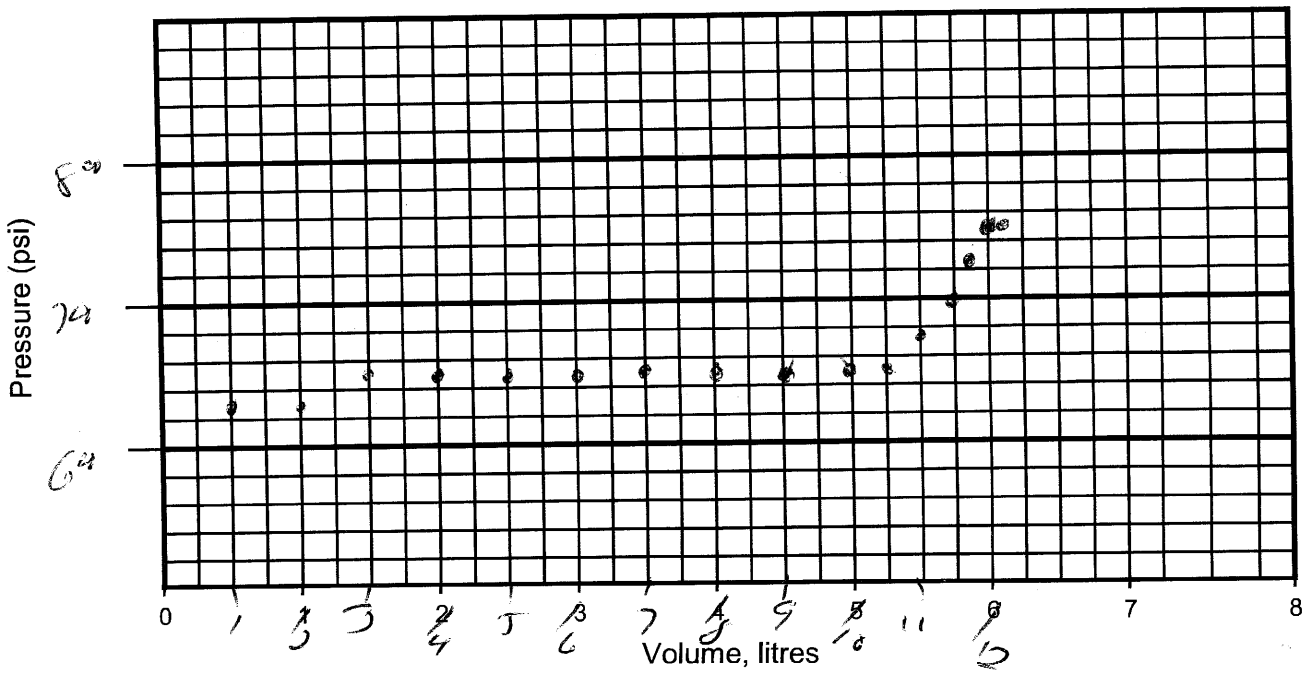
Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 765 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 41 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 143 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	625	630	630	630	630	630	630	630	630

Volume, litres	10.5	11.0	11.5	11.75	12.0	12.25	12.5	/	12.20	
Pressure, psi	650	675	700	725	750	750	775	/	0	



Comments: Packer # 5 Time - 11:18

Sheet 4 of 8

Westbay Packer Inflation Record

Project: TRC-Dane Co PFAS Project No.: FS1370 Well No.: MP-3

Location: Rockton Energy Completed by: GJ Date Inflated: 11/30/21

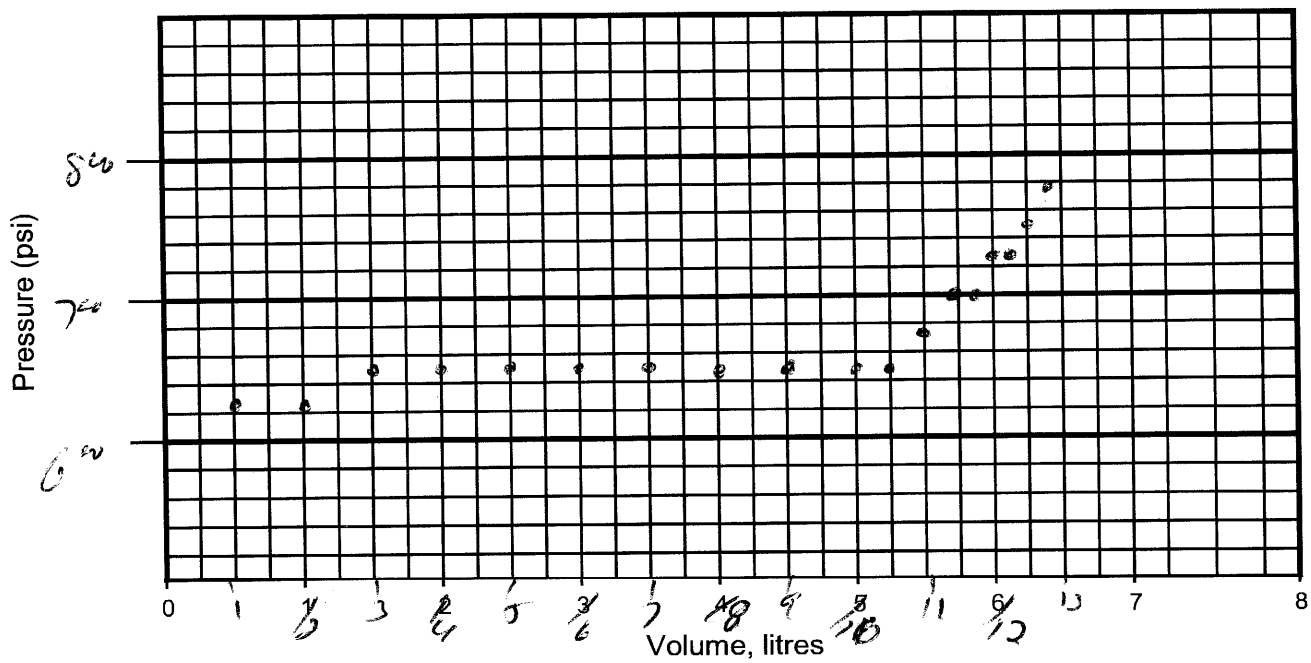
Packer No. 6 - 605 Depth (ft / m): 116 Inflation Tool No.: TIW 1058

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 91 (ft / m) = 15 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 153 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	625	650	650	650	650	650	650	650	650
Volume, litres	10.5	11.0	11.50 ~~11.55~~	11.75 11.80	12.0	12.25	12.50	12.75	/	12.83
Pressure, psi	650	675	740	740	725	725	750	775	Ø	Ø



Comments: Packer # 6 Time - 12:47

Sheet 2 of 2

Westbay Packer Inflation Record

Project: TRC - Dow 6 PFAS Project No.: FS1370 Well No.: MP-3

Location: Rockaway Energy Completed by: GS Date Inflated: 11/6/21

Packer No. 7 - 600 Depth (ft / m): 29 Inflation Tool No.: 1100 1055

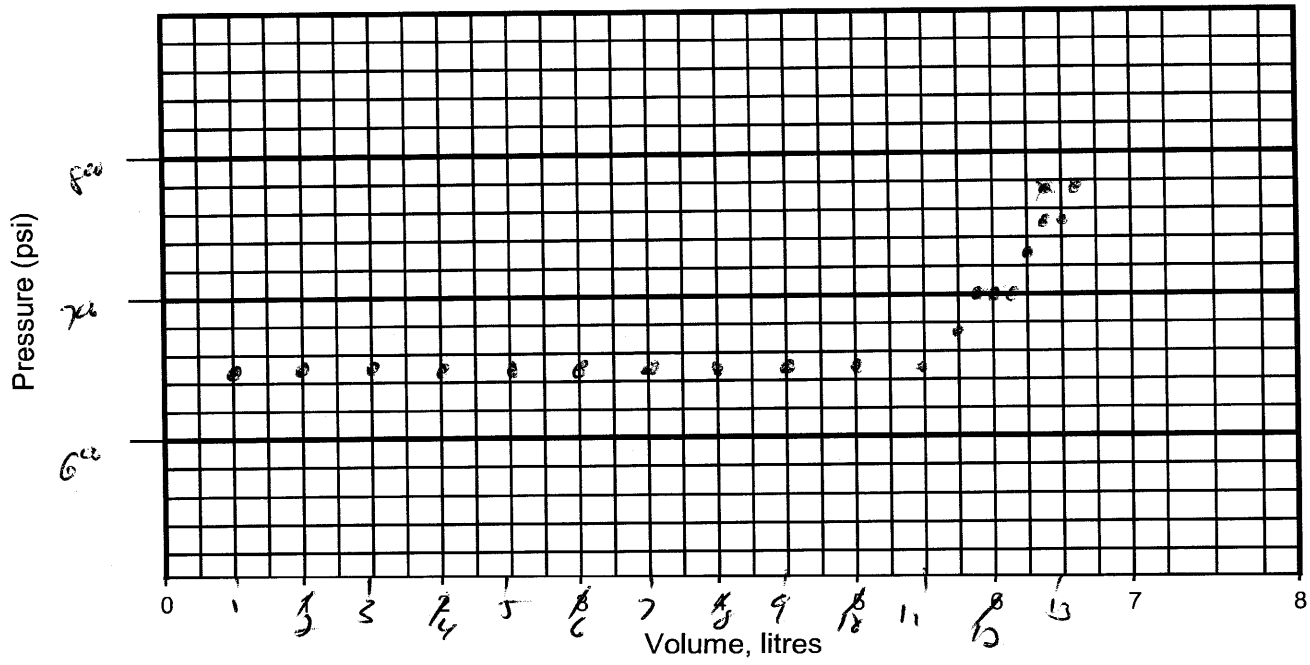
Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 41 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 143 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	650	650	650	650	650	650	650	650	650	650

Volume, litres	10.5	11.0	11.5	11.75	12.0	12.25	12.5	12.5	13.0	13.10	12.50
Pressure, psi	650	650	675	700	700	700	725	750	750	775	ø



Comments: Packer # 7 Time - 1536

Sheet 8 of 8

Westbay Packer Inflation Record

Project: TRC-Dow Co PFAS Project No.: FS1370 Well No.: MP-3

Location: Rockies Energy Completed by: CJS Date Inflated: 11/22/21

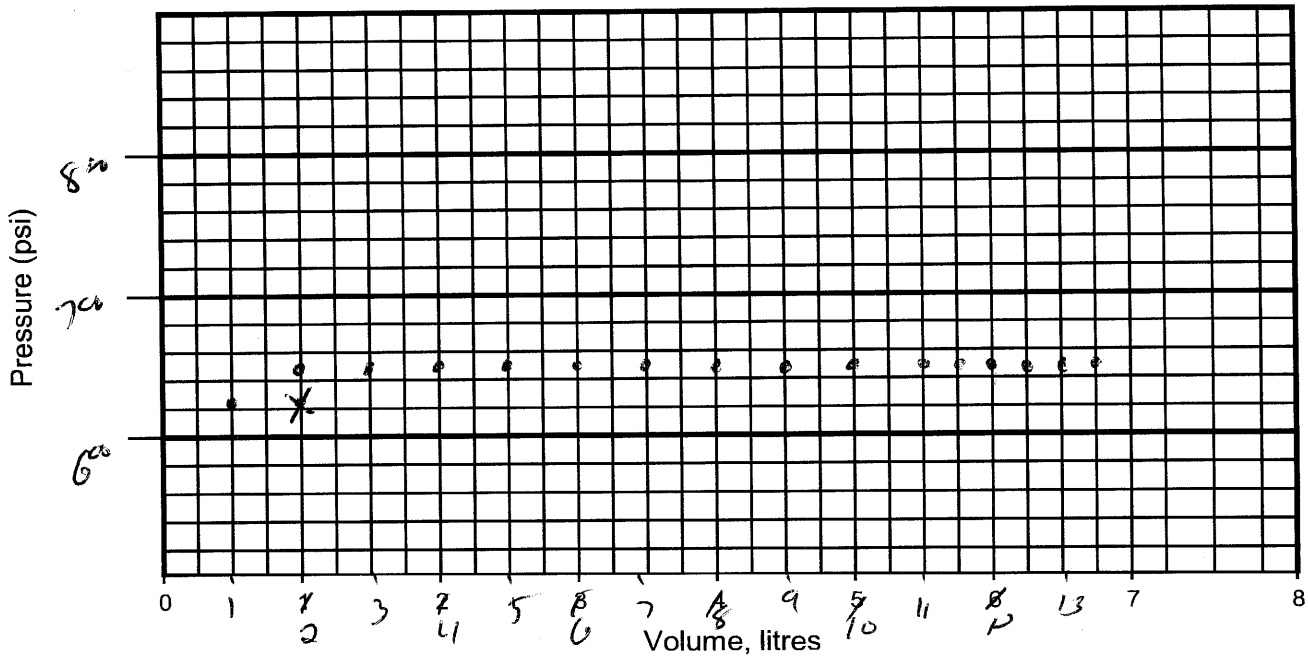
Packer No. 8 - C03 Depth (ft / m): 42 Inflation Tool No.: TW 1003

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 650 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 41 (ft / m) = 18 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 0 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	650	650	650	650	650	650	650	650	650
Volume, litres	11.0 ~~10.5~~	11.5	12.0	12.5	13.0	~~13.50~~	/	13.25		
Pressure, psi	650	650	650	650	650	650	/	0		



Comments: Packer # 8 Time - 14:30

APPENDIX D – MP-04

As-Built Packer and Port Summary (Table 10)	- 1 Page
Summary Casing Log	- 3 Pages
Pre-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (December 6, 2021)	- 1 Pages
Figure 9, Pre-Inflation Piezometric Pressure Profile	- 1 Pages
Post-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (December 8, 2021)	- 1 Pages
Figure 10, Post-Inflation Piezometric Pressure Profile	- 1 Pages
Casing Installation Log	- 5 Pages
MP Packer Inflation Records	- 8 Pages

Table 10. MP-04 As-Built Packer and Port Summary

Port No.	Zone	Measurement Port Depth (ft)	Pumping Port Depth (ft)	Depth to Top of Packer (ft)	Top of Zone (ft)	Bottom of Zone (ft)	Comments
8	8	276.0	281.0	271.0	275.3	291.0	
7	7	256.0	261.0	241.0	245.3	272.3	
6	6	231.0	236.0	216.0	220.3	242.3	
5	5	206.0	211.0	191.0	195.3	217.3	
4	4	176.0	281.0	151.0	155.3	192.3	
3	3	136.0	241.0	111.0	115.3	152.3	
2	2	96.0	101.0	76.0	80.3	112.3	
1	1	59.0	64.0	44.0	48.3	77.3	

All depth measurements in feet below ground surface (bgs).

All depth measurements use 'Nominal' tubing lengths.

Not corrected for borehole deviation or borehole temperature effects.

All depth measurement to upper edge of Westbay System coupling item.

Summary Casing Log

Company: TRC
Well: MP-04
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 291.16 ft.

Borehole Depth: 298.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-04.WWD
Report Date: Wed Dec 08 00:03:34 2021

File Date: Nov 07 00:42:10 2021

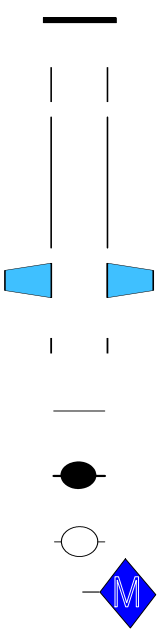
Sketch of Wellhead Completion

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(13) 020105 - MP38 Casing 2 (5F/1.5M)

(19) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(1) 020102 - MP38 Casing 3 (2F/0.6M)

(25) 0202 - MP38 Regular Coupling

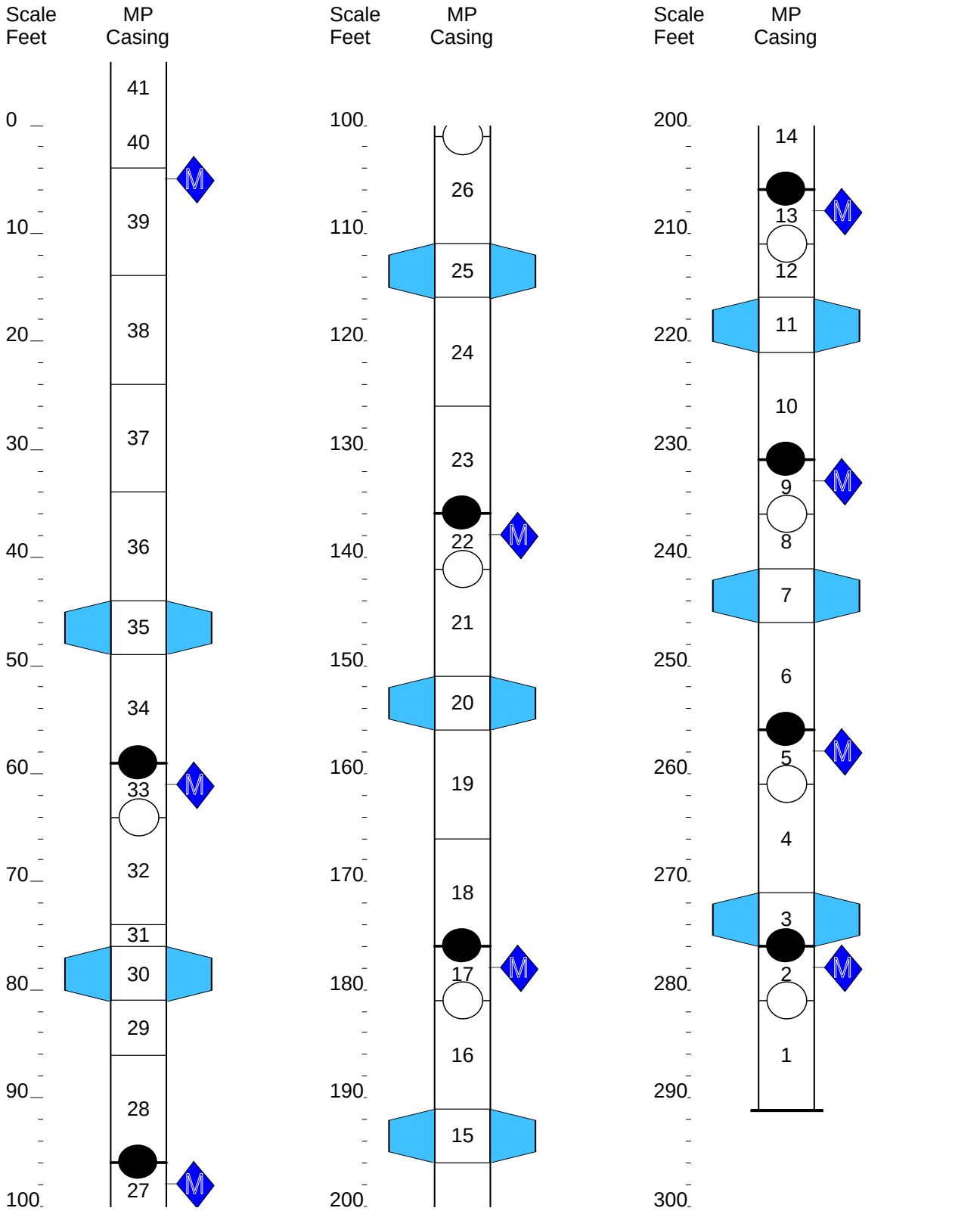
(8) 0205 - MP38 Measurment Port

(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

Well Designer Report
TRC

Job No: FS1370
Well: MP-04



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP-04
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: 71
Elev. top of Westbay Casing: —
Reference Elevation: GS
Borehole angle: 90°

Probe Type: Sampler
Serial No.: 1761
Probe Range: 0-2.5
Westbay Casing Type: MP38
Sampler Valve Position: Closed

Date: 12/6/01
Client: TRI
Job No.: FS1370
Location: Beckom
Weather: Sunny 2 90's
Operator: CS

Ambient Reading (P_{atm}) (pressure, temperature, time)

Start: Pressure 14.24 Finish: 14.27
Temp 16.00 16.16
Time 14:47 15:59

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

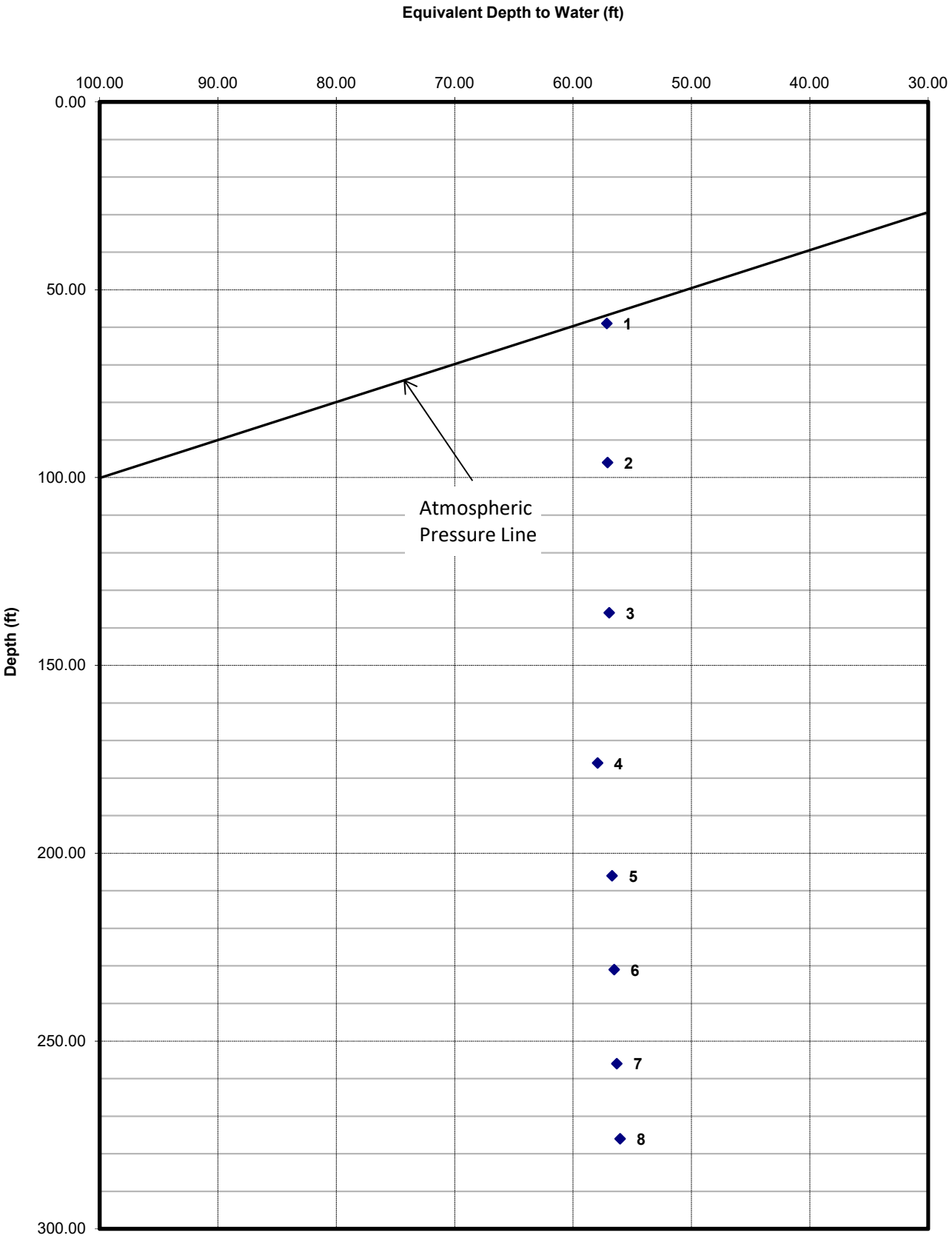
P_{atm} 14.24 psi

14.32 15.04 15:28 10.14 14.32

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	59	59.4	—	~~51.1~~	~~16.40~~	~~15:30~~	10.05	51.51	1.85	57.15	Pre Install
7	96	96.7	—	14.31	31.11	15:07	10.16	14.33	38.92	57.08	
6	136	136.5	—	14.33	45.51	15:26	10.09	14.34	7905	56.94	
5	176	176.3	—	~~14.32~~ 14.33	65.12	15:25	10.05	14.36	117.37	58.63	
4	206	206.1	—	21.09	85.46	15:23	10.06	21.09	149.30	56.70	
3	231	231	—	31.96	89.57	15:22	10.10	31.97	174.46	56.54	
2	256	255.9	—	43.32	109.31	15:21	10.19	43.33	198.55	57.45	
1	276	275.5	—	57.31	109.00	15:20	10.25	51.51	219.98	56.02	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 9
Well: MP-04
Pre-Inflation Pressure Profile



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

Well No.: MP-04
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: 2'
Elev. top of Westbay Casing: —
Reference Elevation: GS
Borehole angle: 90

Probe Type: Sampler
Serial No.: 1741
Probe Range: 0-250
Westbay Casing Type: MP 38
Sampler Valve Position: Closed

Date: 12/8/21
Client: TRC
Job No.: PS1320
Location: Rockleen
Weather: Cloudy 23°F
Operator: CS

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

P_{atm} 14.24 psi

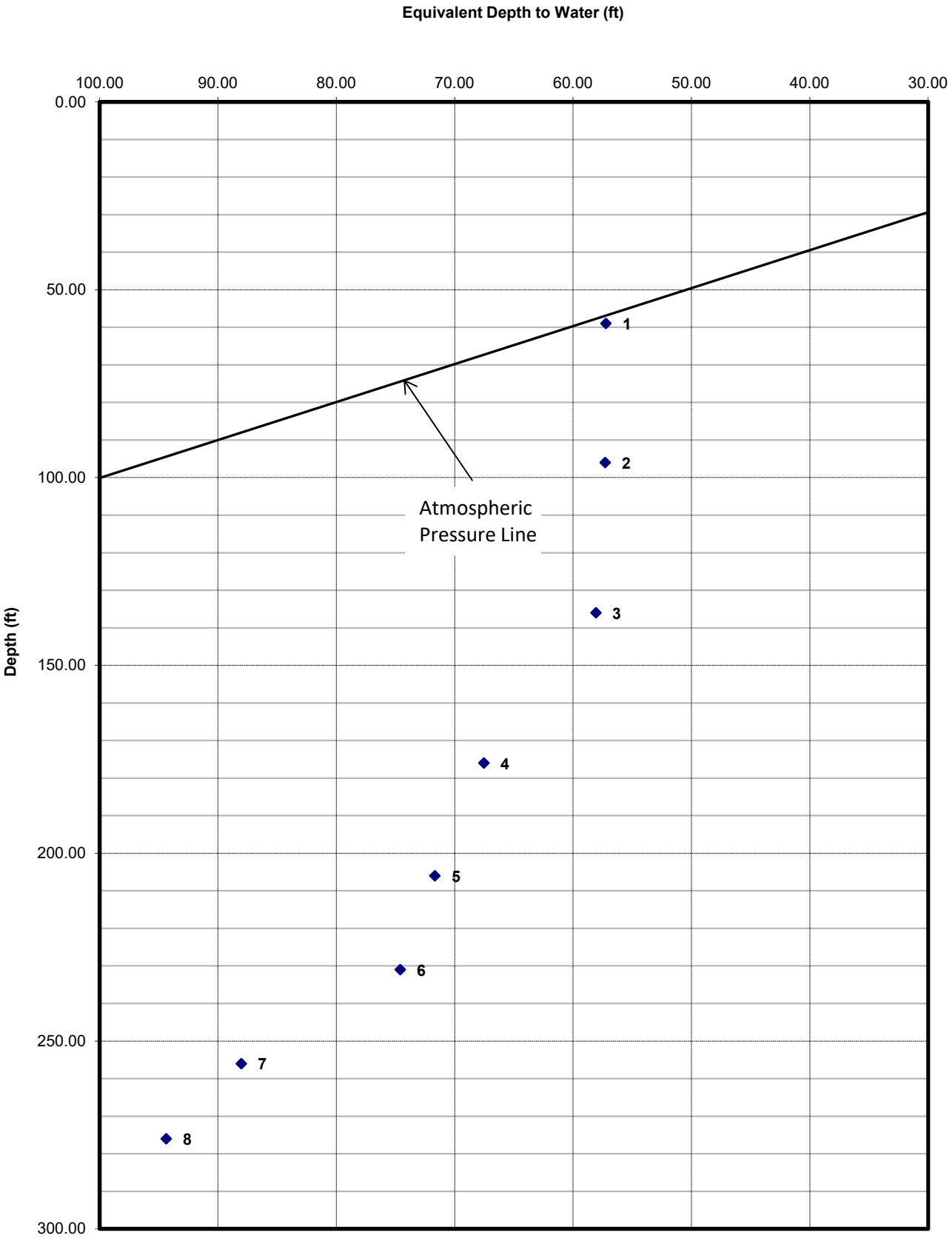
Ambient Reading (P_{atm}) (pressure, temperature, time)

		Start	Finish
Pressure		14.24	14.24
Temp		17.43	8.71
Time		10:53	11:42

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	59	60.4	—	14.27	15.01	11:57	10.41 ~~10.38~~	14.26	1.78	57.22	Post Inflation
7	96	97.1	—	14.30	31.02	11:55	~~14.29~~	14.29	38.71	57.29	
6	136	136.9	—	28.82	48.02	1153	10.28	28.82	77.92	58.07	
5	176	176.7	—	46.20	61.26	11:51	10.20	46.20	108.47	68.53	
4	206	206.5	—	58.25	72.47	11:48	10.10	59.25 ~~30.14~~	134.33	71.67	
3	231	231.3	—	70.12	82.04	11:45	9.97	~~82.05~~	156.40	74.60	
2	256	256.2	—	81.00	87.06	11:42	9.58	81.06	167.98	88.02	
1	276	276.3	—	81.70	92.98	11:37	8.19	89.70	181.64	94.36	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 10
Well: MP-04
Post-Inflation Pressure Profile



Casing Installation Log

Company: TRC
Well: MP-04
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 295.16 ft.

Borehole Depth: 298.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-04.WWD
Report Date: Sun Nov 07 01:41:40 2021

File Date: Nov 07 01:24:37 2021

Comments

12/6/21

Client requests filter Socks

Log Information

Borehole condition confirmed.
MP well design & preparation.
MP well design checked.
MP well and borehole approved to install.

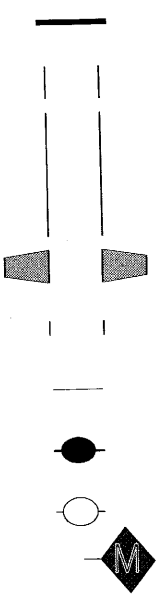
(method) Logging Date: 12/3/21
By: [signature] Date: 12/3/21
By: [signature] Date: 12/6/21
By: _____ Date: _____

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(14) 020105 - MP38 Casing 2 (5F/1.5M)

(19) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(1) 020102 - MP38 Casing 3 (2F/0.6M)

(26) 0202 - MP38 Regular Coupling

(8) 0205 - MP38 Measurment Port

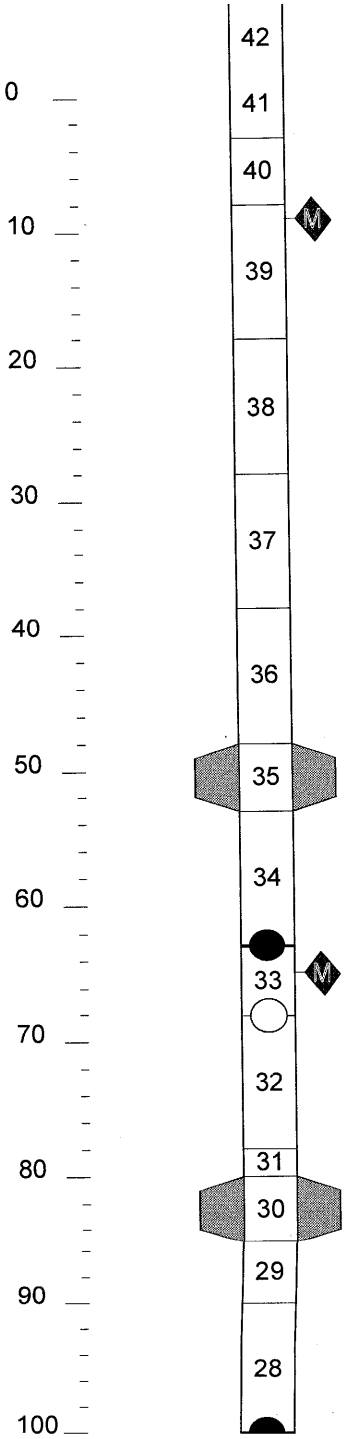
(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

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Well Designer Report
TRC

Job No: FS1370
Well: MP-04



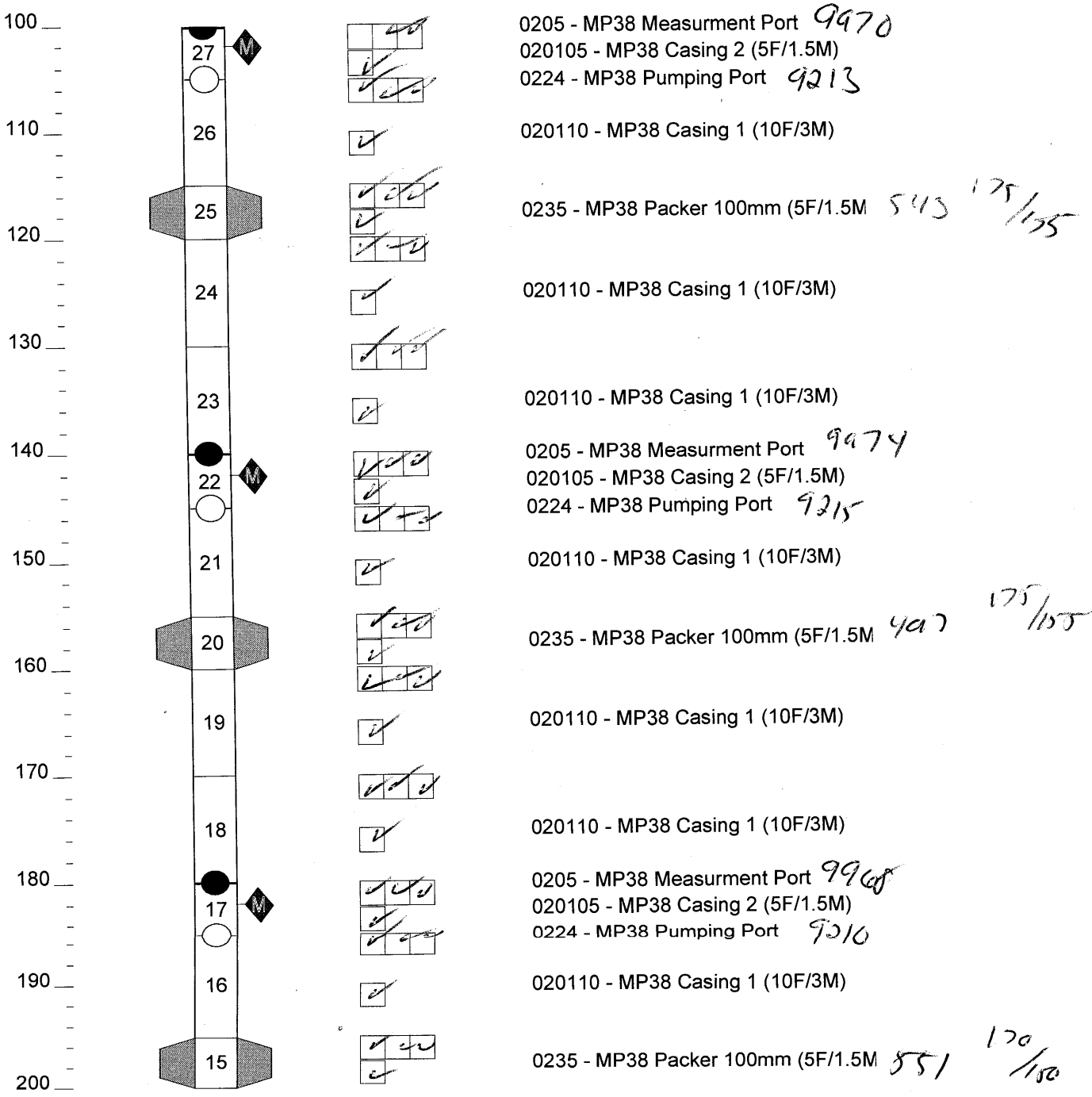
QA Tested OK	MP Casing Description
	020105 - MP38 Casing 2 (5F/1.5M)
	020105 - MP38 Casing 2 (5F/1.5M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	0235 - MP38 Packer 100mm (5F/1.5M 5/11 145/145
	020110 - MP38 Casing 1 (10F/3M)
	0205 - MP38 Measurment Port 9/12
	020105 - MP38 Casing 2 (5F/1.5M)
	0224 - MP38 Pumping Port 9/11
	020110 - MP38 Casing 1 (10F/3M)
	020102 - MP38 Casing 3 (2F/0.6M)
	0235 - MP38 Packer 100mm (5F/1.5M 5/12 n/a/150
	020105 - MP38 Casing 2 (5F/1.5M)
	020110 - MP38 Casing 1 (10F/3M)

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Sun Nov 07 01:41:18 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-04

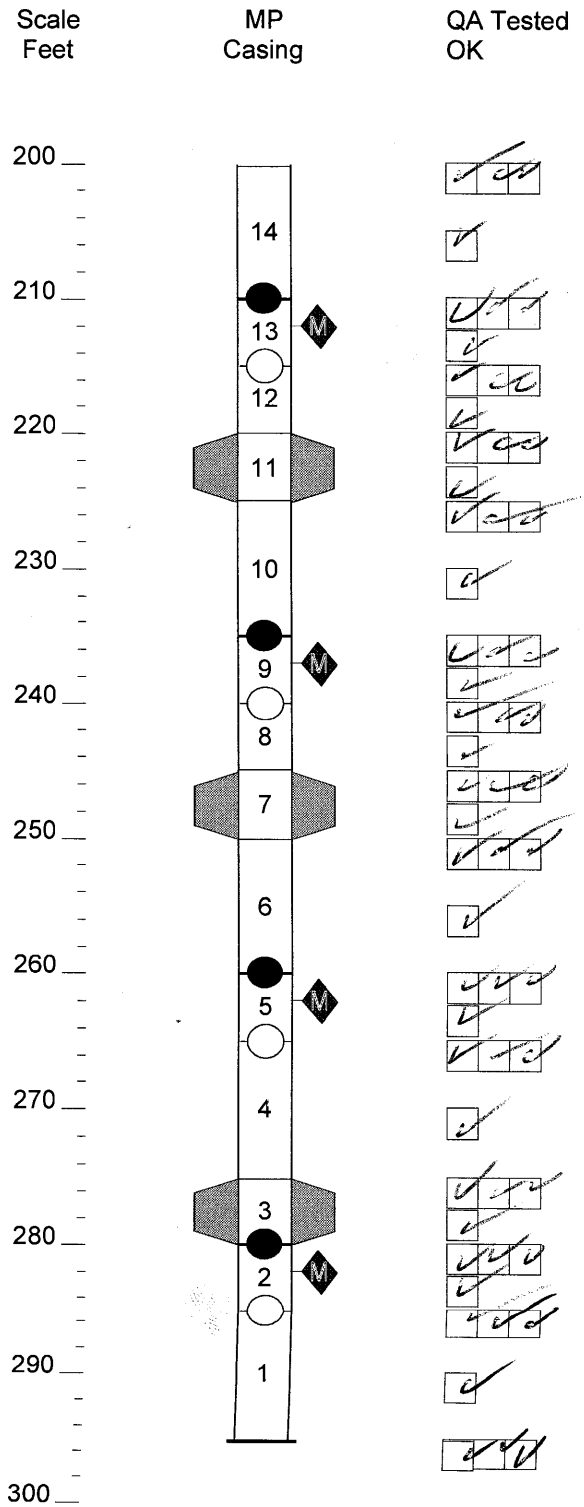


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Sun Nov 07 01:41:18 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-04



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Sheet 1 of 8

Westbay Packer Inflation Record

Project: IRL-Dan Cnty PFRS Project No.: FS1370 Well No.: MP-04

Location: Rockies Energy Completed by: GS Date Inflated: 12/7/01

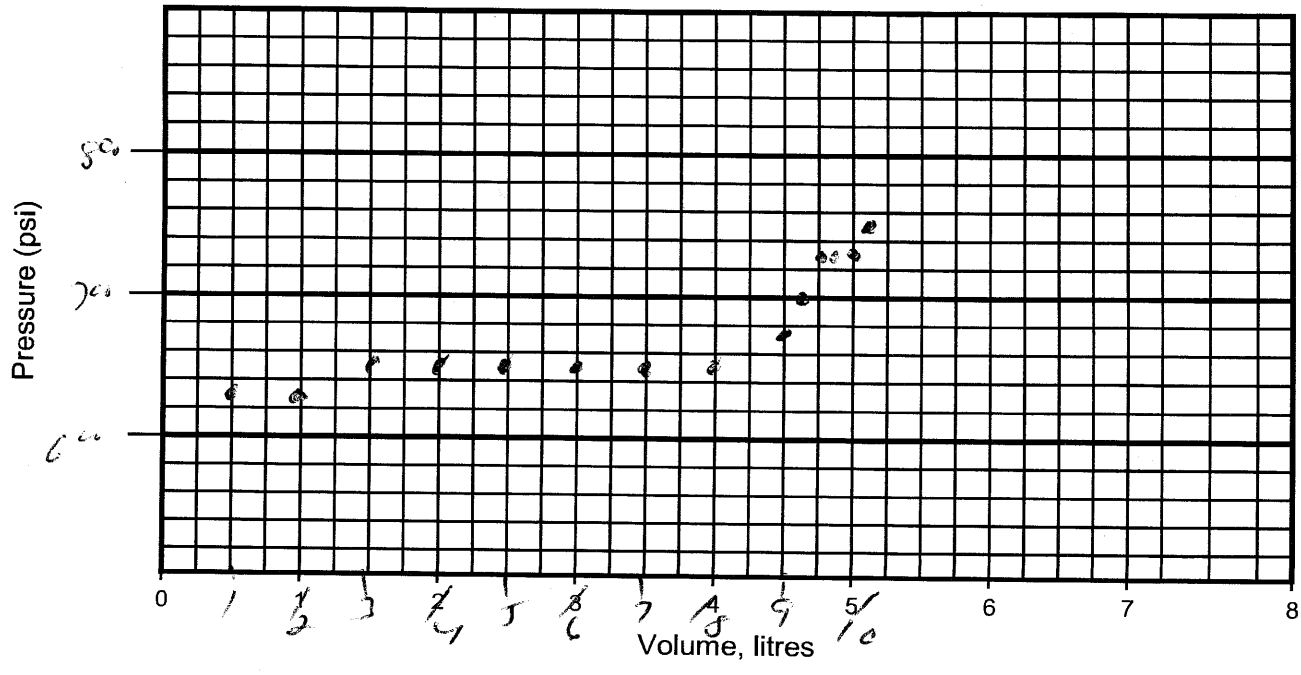
Packer No. 1 - 598 Depth (ft / m): 2171 Inflation Tool No.: TW 1088

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 750 psi Tool Pressure, P_T: 500 psi

Borehole Water Level: 56.54 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 135 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.25
Pressure, psi	625	625	650	650	650	650	650	650	675	700
Volume, litres	9.50	9.75	10.0	10.25	/	10				
Pressure, psi	725	725	725	750	/	0				



Comments: Packer # 1 Time - 8.33

Sheet 2 of 4

Westbay Packer Inflation Record

Project: JRC-Dow Co. PFAS Project No.: FS1320 Well No.: MP-04

Location: Rocklen Energy Completed by: CS Date Inflated: 10/7/21

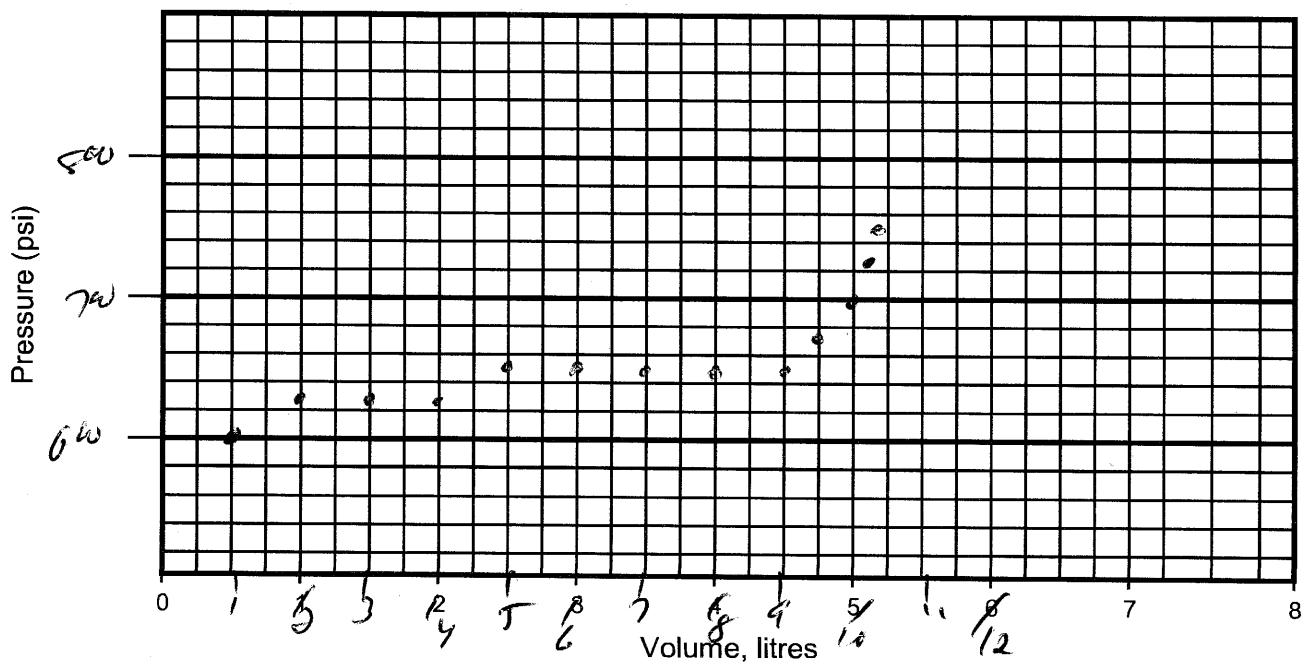
Packer No. 2 - 597 Depth (ft / m): 241 Inflation Tool No.: 710 1088

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 710 psi Tool Pressure, P_T: 720 psi

Borehole Water Level: 56 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 135 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	600	605	625	625	650	650	650	650	650	675
Volume, litres	10.0	10.25	10.45	/	10.25					
Pressure, psi	740	725	710	/	0					



Comments: Packer # ~~4~~ 2 Time - 9:02

Sheet 3 of 5

Westbay Packer Inflation Record

Project: TRC - Dan Ca PFIS Project No.: F81370 Well No.: MP-04

Location: Rockies Energy Completed by: GS Date Inflated: 10/7/21

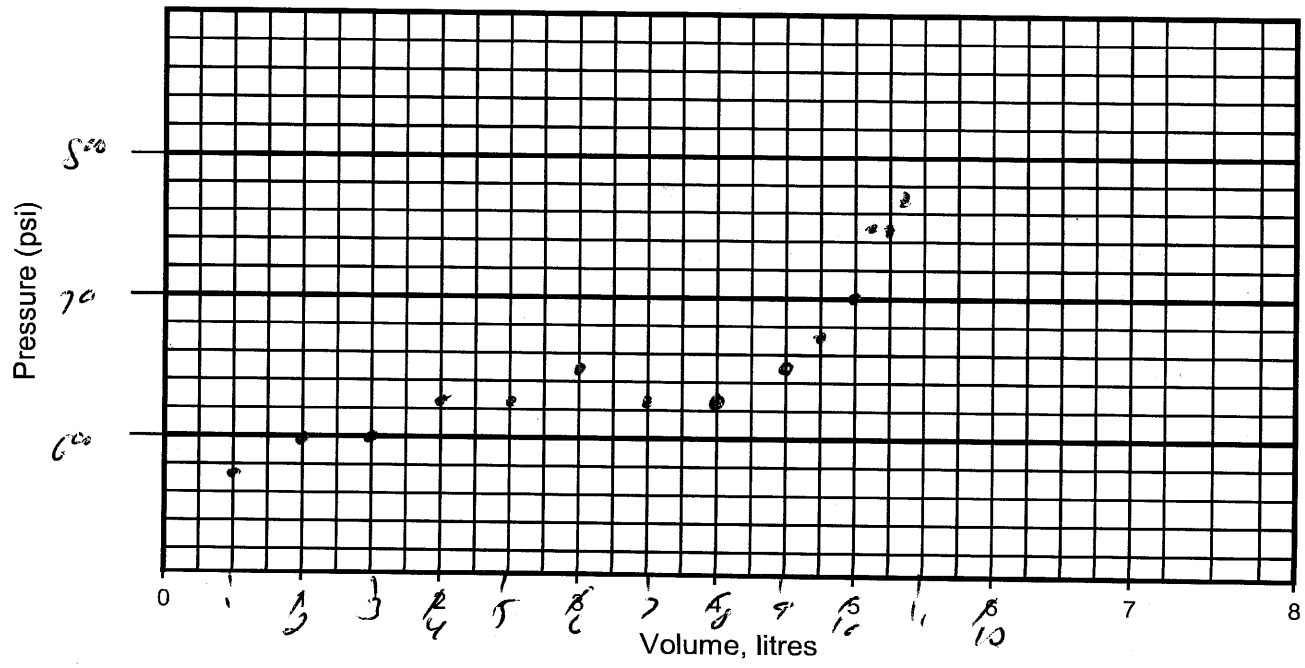
Packer No. 3 - 570 Depth (ft / m): 216 Inflation Tool No.: TIW 1088

Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 770 psi Tool Pressure, P_T: 500 psi

Borehole Water Level: 70 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 145 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.6
Pressure, psi	575	600	600	625	625	650	625	625	650	675
Volume, litres	10.0	10.25	10.50	10.00	/	10.30				
Pressure, psi	700	750	750	770	∅	∅				



Comments: Packer # 3 Time - 10:11

Sheet 4 of 8

Westbay Packer Inflation Record

Project: TRC - Dan 6 Pads Project No.: FS1370 Well No.: MW-04

Location: Rocklea Forge Completed by: CS Date Inflated: 12/7/21

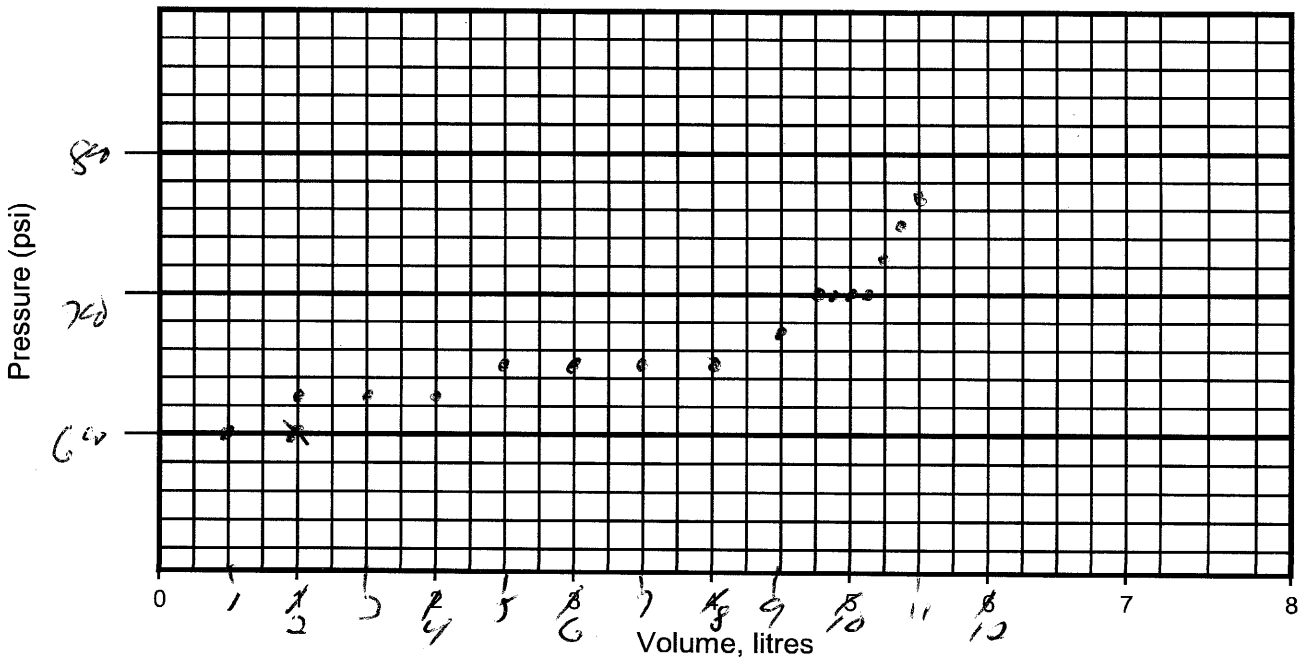
Packer No. 4 - 531 Depth (ft / m): 191 Inflation Tool No.: JW 1088

Packer Valve Pressure, P_V: 18 psi Final Line Pressure, P_L: 770 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 76 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 495 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	620	625	625	625	630	630	630	630	675	720
Volume, litres	9.75	10.0	10.25	10.50	10.75	11.0	/	10.65		
Pressure, psi	720	720	720	725	730	770	/	Ø		



Comments: Packer # 4 Time - 12:06

Sheet 5 of 8

Westbay Packer Inflation Record

Project: JRC-Dane Co PFAS Project No.: FS1370 Well No.: MP-04

Location: Rocklea Energy Completed by: GS Date Inflated: 12/1/24

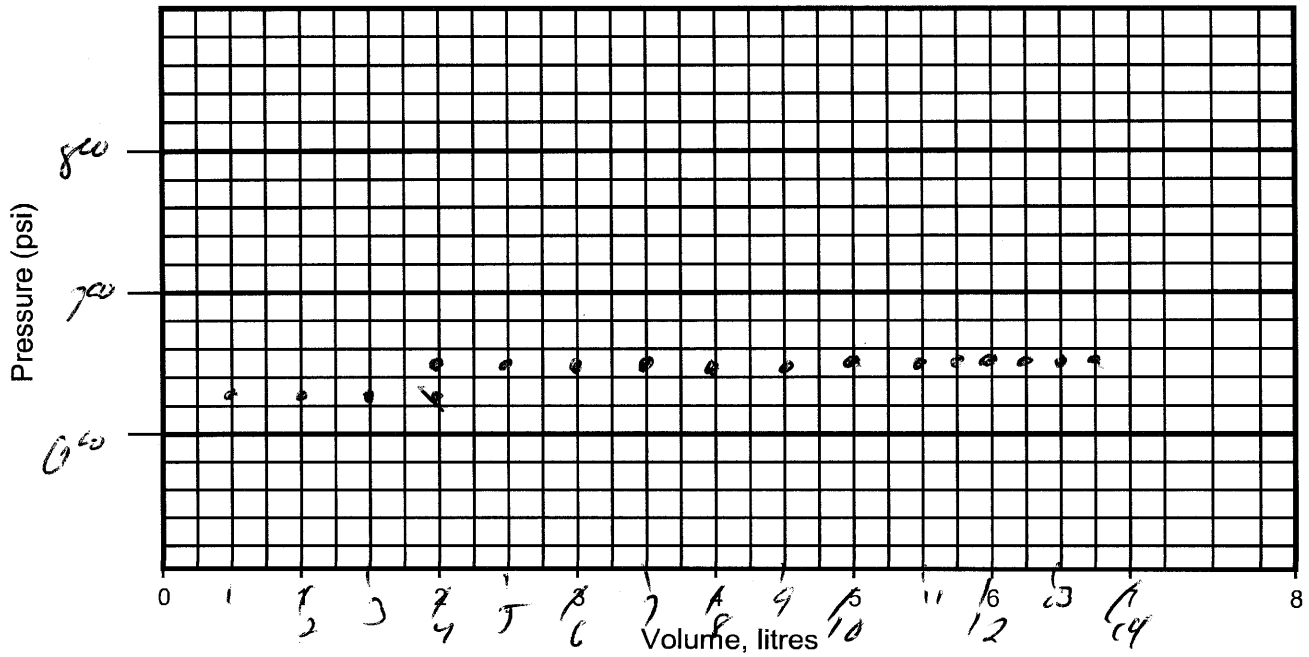
Packer No. 5 -495 Depth (ft / m): 151 Inflation Tool No.: 716, 1058

Packer Valve Pressure, P_V: 155 psi Final Line Pressure, P_L: 650 psi Tool Pressure, P_T: 550 psi

Borehole Water Level: 56 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 0 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	625	625	650	650	650	650	650	650	650
Volume, litres	11.0	11.5	12.0	12.5	13.0	13.50	13.75	/	13.90	
Pressure, psi	650	650	650	650	650	650	650	0	0	



Comments: Packer #5 Time - 13:00

Sheet 6 of 8

Westbay Packer Inflation Record

Project: TRC - Dave 6 PFM Project No.: F57326 Well No.: MP-04

Location: Recklen Energy Completed by: GS Date Inflated: 02/17/21

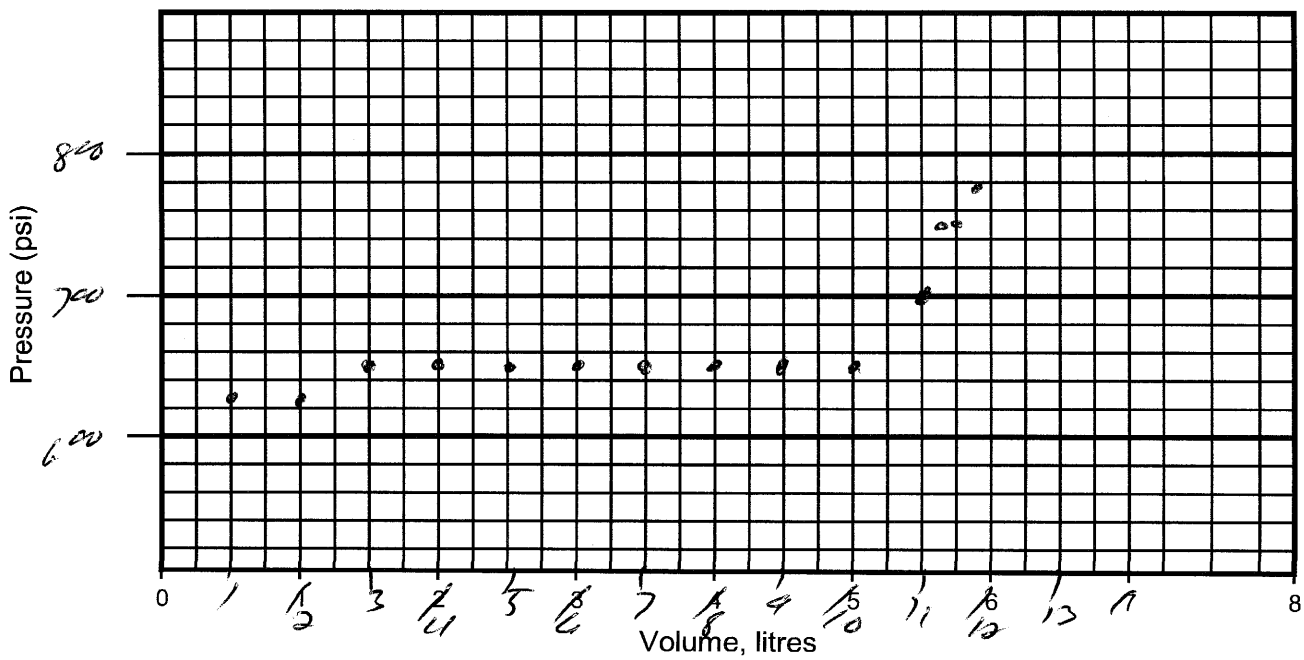
Packer No. 6 - 543 Depth (ft / m): 111 Inflation Tool No.: JW 1088

Packer Valve Pressure, P_V: 105 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 56 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 135 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	625	650	650	650	650	650	650	650	650
Volume, litres	10.0	11.25	11.50	11.75		11.50				
Pressure, psi	700	750	750	775		0				



Comments: Packer # 6 Time - 14:05

Sheet 7 of 8

Westbay Packer Inflation Record

Project: TRC - Dane Co. PFAS Project No.: FS1370 Well No.: MW-04

Location: Rockgen Energy Completed by: CG Date Inflated: 12/7/21

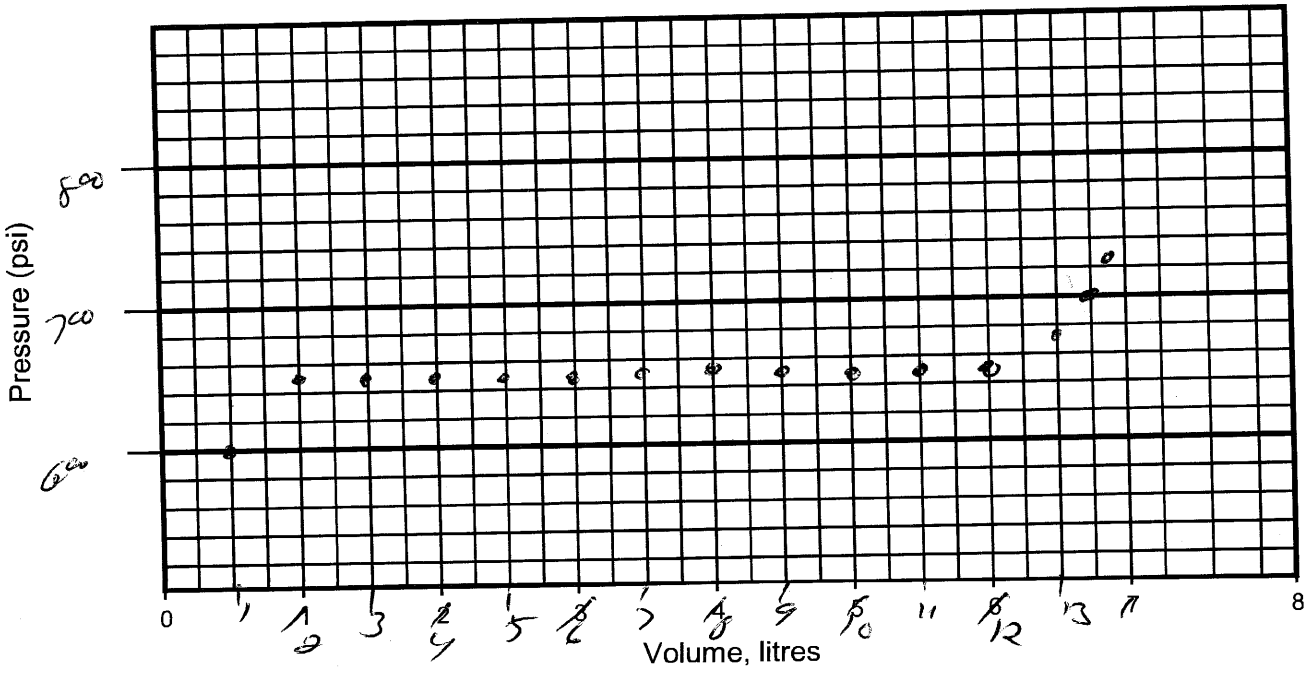
Packer No. 7 - 542 Depth (ft / m): 76 Inflation Tool No.: TW 1088

Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 725 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 56 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = _____ psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	600	600	650	650	650	650	650	650	650	650
Volume, litres	11.0	12.0	13.0	13.5	13.75	/	13.00			
Pressure, psi	650	650	675	700	725	/	0			



Comments: Packer # 7 Time - 1500

_____

_____

Sheet 8 of 8

Westbay Packer Inflation Record

Project: TRC-Dan Co. PRMS Project No.: FS1370 Well No.: MP-04

Location: Rocklea Energy Completed by: GS Date Inflated: 12/7/21

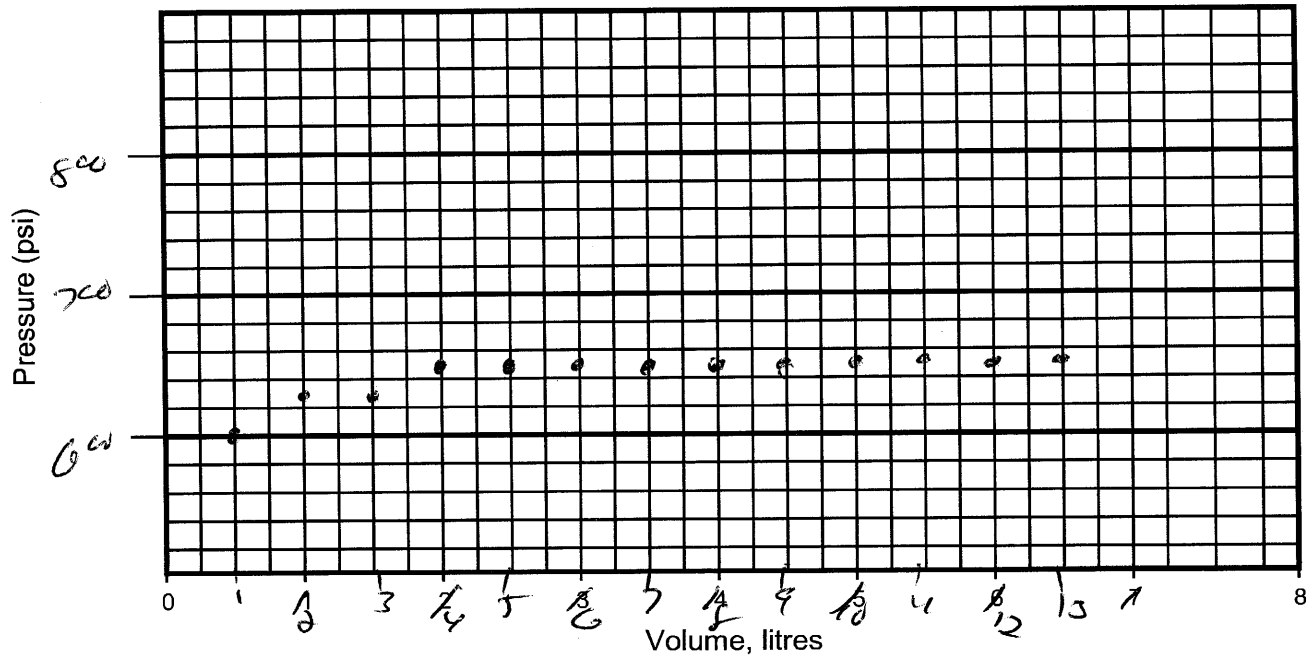
Packer No. 8-541 Depth (ft / m): 44 Inflation Tool No.: TW 1088

Packer Valve Pressure, P_V: 175 psi Final Line Pressure, P_L: 200 psi Tool Pressure, P_T: 500 psi

Borehole Water Level: 56 (ft / m) = 25 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = _____ psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	600	625	625	650	650	650	650	650	650	650
Volume, litres	11.0	12.0	13.0	13.5	13.75	/	13.80			
Pressure, psi	650	650	650	675	20	0	0			



Comments: Packer # 8 Time - 15:52

APPENDIX E – MP-05

As-Built Packer and Port Summary (Table 11)	- 1 Page
Summary Casing Log	- 3 Pages
Pre-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (December 14, 2021)	- 1 Pages
Figure 11, Pre-Inflation Piezometric Pressure Profile	- 1 Pages
Post-Inflation Piezometric Pressure/Levels Field Data and Calculation Sheet (December 15, 2021)	- 1 Pages
Figure 12, Post-Inflation Piezometric Pressure Profile	- 1 Pages
Casing Installation Log	- 5 Pages
MP Packer Inflation Records	- 8 Pages

Table 11. MP-05 As-Built Packer and Port Summary

Port No.	Zone	Measurement Port Depth (ft)	Pumping Port Depth (ft)	Depth to Top of Packer (ft)	Top of Zone (ft)	Bottom of Zone (ft)	Comments
8	8	264.0	271.0	259.0	263.3	279.0	
7	7	244.0	249.0	224.0	228.3	260.3	
6	6	214.0	219.0	199.0	203.3	225.3	
5	5	189.0	194.0	174.0	178.3	200.3	
4	4	164.0	169.0	154.0	158.3	175.3	
3	3	134.0	139.0	109.0	113.3	155.3	
2	2	89.0	94.0	64.0	68.3	110.3	
1	1	49.0	54.0	-	SWL	65.3	

All depth measurements in feet below ground surface (bgs).

All depth measurements use 'Nominal' tubing lengths.

Not corrected for borehole deviation or borehole temperature effects.

All depth measurement to upper edge of Westbay System coupling item.

Summary Casing Log

Company: TRC
Well: MP-05
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 279.16 ft.

Borehole Depth: 284.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-05.WWD
Report Date: Wed Dec 08 00:13:41 2021

File Date: Nov 14 23:03:25 2021

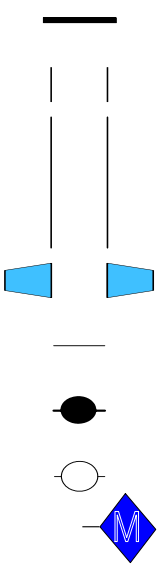
Sketch of Wellhead Completion

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

Geology

Backfill/Casing



(2) 0203 - MP38 End Cap

(18) 020105 - MP38 Casing 2 (5F/1.5M)

(16) 020110 - MP38 Casing 1 (10F/3M)

(7) 0235 - MP38 Packer 100mm (5F/1.5M)

(25) 0202 - MP38 Regular Coupling

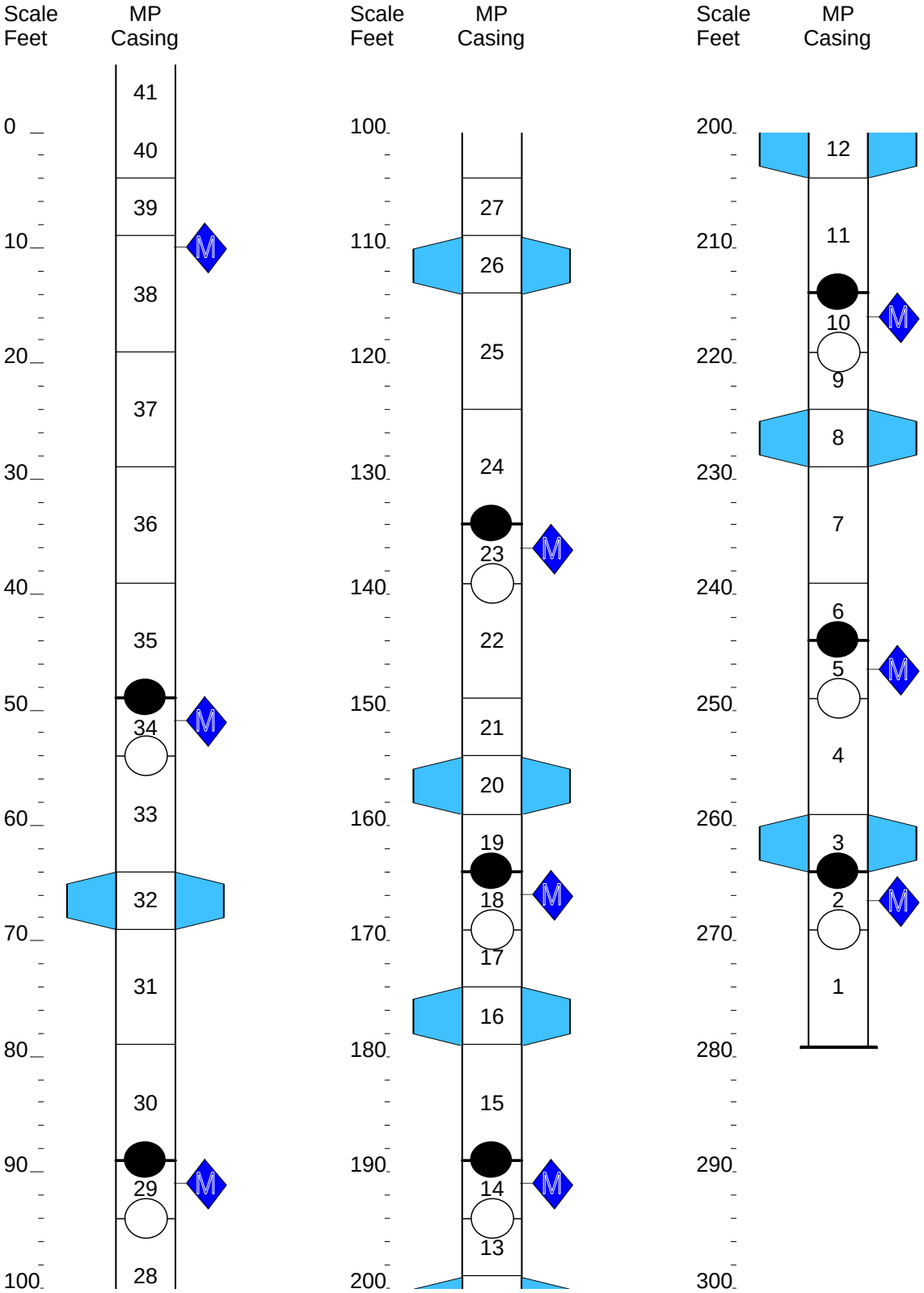
(8) 0205 - MP38 Measurment Port

(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

Well Designer Report
TRC

Job No: FS1370
Well: MP-05



Westbay Instruments

Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Well No.: MP-05
Datum: GS
Elev. G.S.: —
Height of Westbay above G.S.: 0.0'
Elev. top of Westbay Casing:
Reference Elevation:
Borehole angle: 90°

Probe Type: Sampler
Serial No.: 1761
Probe Range: 0-250
Westbay Casing Type: MP38
Sampler Valve Position: Closed

Date: 12/14/91
Client: TRC
Job No.:
Location: Rockton
Weather: Cloudy 45°F
Operator: GS

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

P_{atm} 14.32 psi

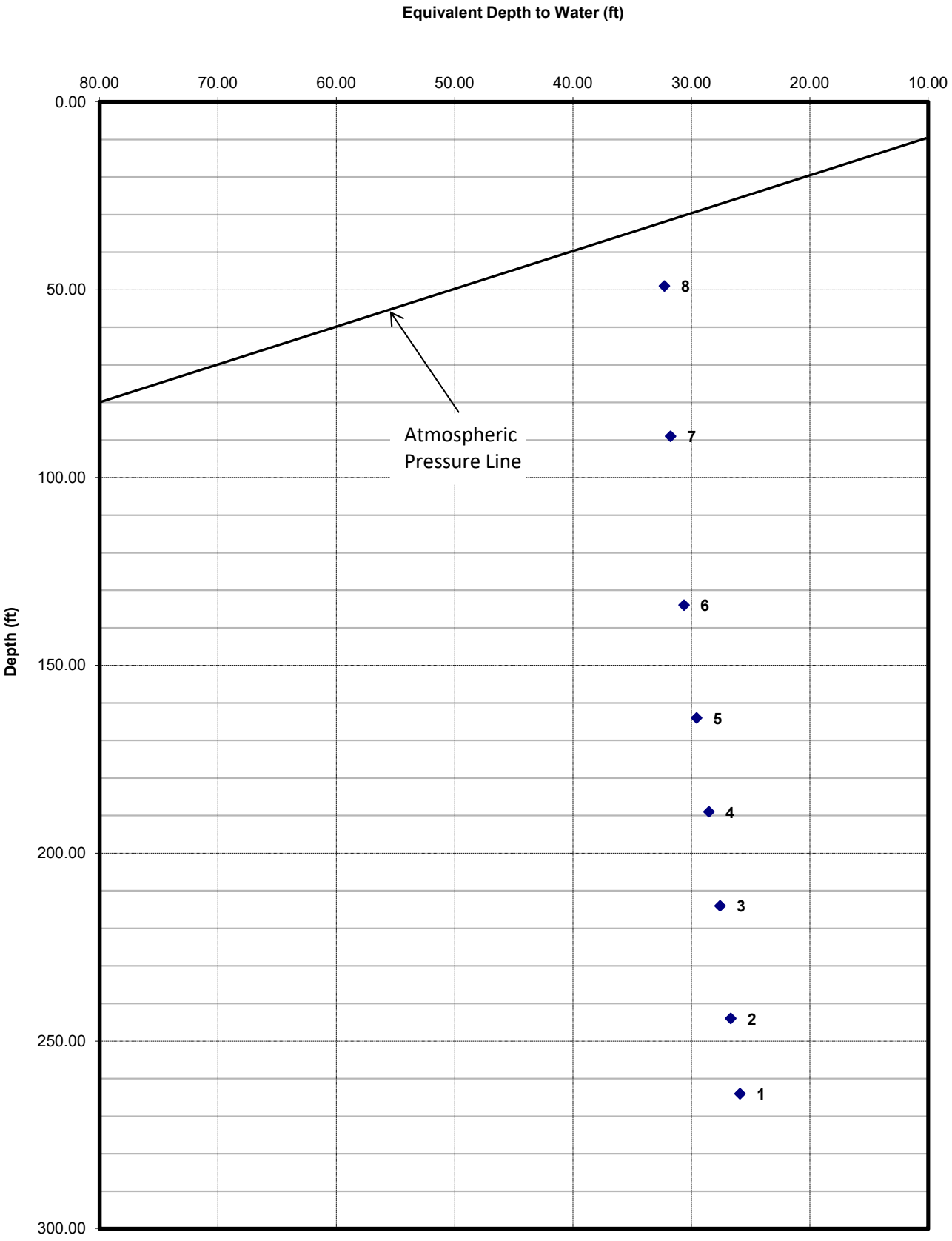
Ambient Reading (P_{atm}) (pressure, temperature, time)

Start: Pressure	14.32	Finish:	14.32
Temp	15.68		10.56
Time	15:35		16:20

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	264	263	—	79.82	110.54	16:08	10.10	79.82	238.11	25.89	Pre Inflation
7	244	243.1	—	71.13	108.53	16:09	10.43	71.13	217.32	26.68	
6	214	213.3	—	58.10	95.13	16:11	10.33	58.10	186.41	27.59	
5	189	188.4	—	47.23	83.89	16:13	10.29	47.23	160.48	28.52	
4	164	163.6	—	36.36	72.60	16:15	10.24	36.36	134.44	29.56	
3	134	133.8	—	23.30	59.13	16:16	10.22	23.30	103.37	30.63	
2	89	89	—	14.37	39.13	16:17	10.02	14.38	57.23	31.77	
1	49	49.2	—	14.34	21.57	16:19	10.24	14.35	16.72	32.28	

Notes: w = 0.4335 psi/ft (1.42psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 11
Well: MP-05
Pre-Inflation Pressure Profile



Westbay Piezometric Pressures/Levels

Field Data and Calculation Sheet

Westbay Instruments

WellNo.: MP-05
Datum: GS
Elev. G.S.:
Height of Westbay above G.S.: 6'
Elev. top of Westbay Casing:
Reference Elevation:
Borehole angle: 90°

Probe Type: Sampler
Serial No.: 1761
Probe Range: 0-350
Westbay Casing Type: MP38
Sampler Valve Position: Closed

Date: 12/15/21
Client: TRC
Job No.:
Location: Rockaway
Weather: PC 65°F
Operator: CW

Note: "Port position" in angled boreholes refer to position along drillhole. True depth (Dp) needs to be calculated using borehole angle and deviation data to calculate zone piezometric level (Dz).

Ambient Reading (P_{atm}) (pressure, temperature, time)

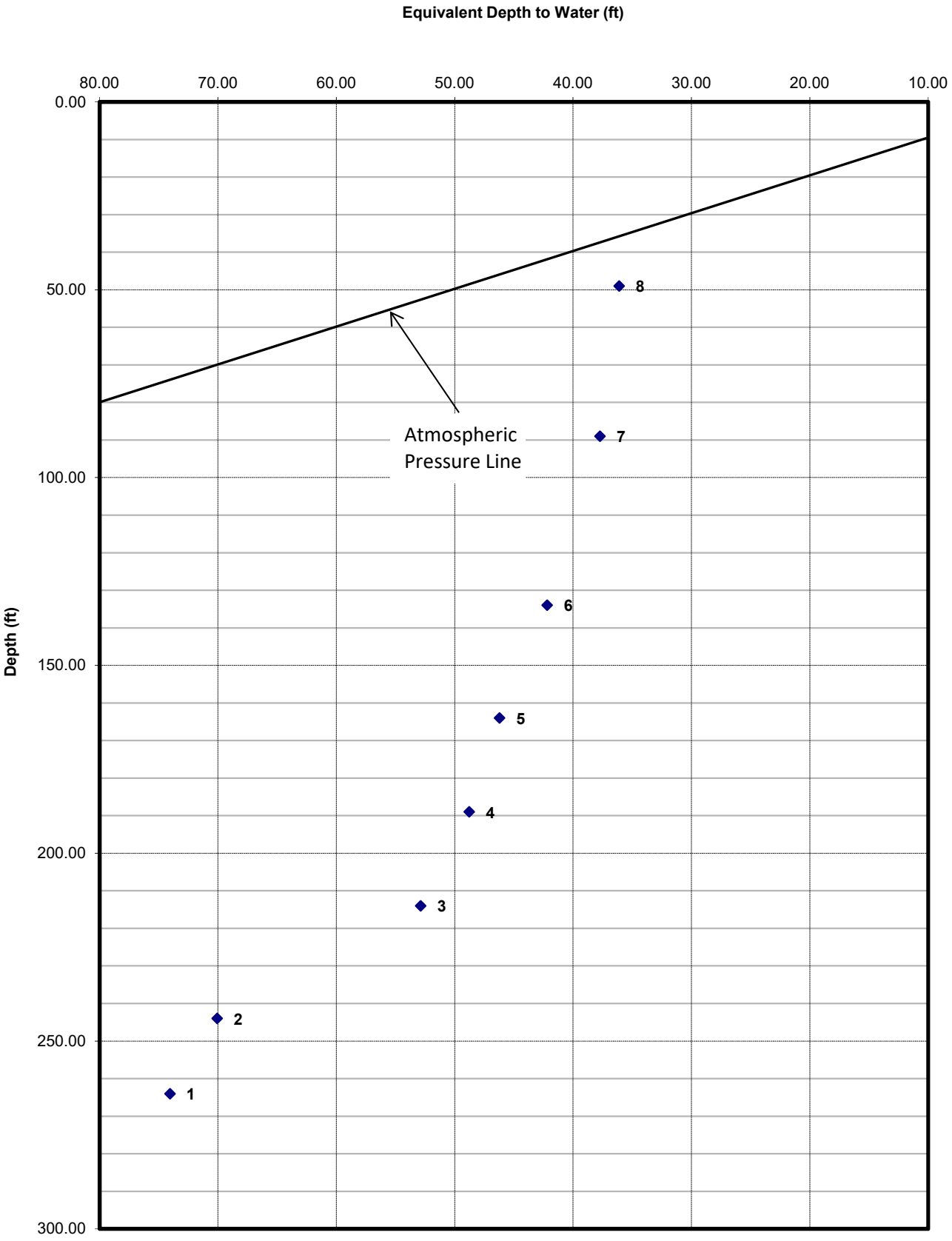
Start: Pressure	14.07	Finish:	14.07
Temp	13.11		14.11
Time	15:09		15:27

P_{atm} 14.07 psi

Port No.	Port Position From Log (ft)	Port Position From Cable (ft)	True Port Depth "Dp" (ft)	Fluid Pressure Readings: Inside Casing (P1)	Outside Casing (P2)	Time H:M:S	Probe Temp. (°C)	Inside Casing (P1)	Pressure Head Outside Port (ft) H = (P2-Patm)/w	Piez. Level Outside Port (ft) Dz = Dp - H	Comments
8	264	263.3	—	104.04	96.66	15:14	13.76	104.04	190.52	73.48	Post Install
7	244	243.2	—	95.35	89.72	15:16	12.37	95.34	174.51	69.49	
6	214	213.4	—	82.33	84.17	15:18	11.71	82.34	161.71	52.29	
5	184	183.5	—	71.47	75.11	15:19	11.24	71.47	140.81	48.19	
4	164	163.6	—	60.60	65.38	15:21	11.06	60.59	118.36	45.64	
3	134	133.7	—	47.55	54.12	15:23	10.91	47.55	93.39	41.61	
2	89	88.9	—	27.97	36.55	15:25	10.87	27.97	51.86	37.14	
1	49	49	—	14.10	19.91	15:26	11.02	14.11	13.47	35.53	

Notes: w = 0.4335 psi/ft (1.422psi/m) of H_2O Dz = piezometric level in zone Patm = atmospheric pressure H = pressure head of water in zone Dp = true depth of measurement port

Figure 12
Well: MP-05
Post-Inflation Pressure Profile



Casing Installation Log

Company: TRC
Well: MP-05
Site: Dane County PFAS
Project:

Job No: FS1370
Author: GS

Well Information

Reference Datum:
Elevation of Datum: 0.00 ft.
MP Casing Top: 0.00 ft.
MP Casing Length: 282.16 ft.

Borehole Depth: 284.00 ft.
Borehole Inclination:
Borehole Diameter: 6.00 in.

Well Description:
Dane County PFAS Site
Other References:

File Information

File Name: MP-05.WWD
Report Date: Sun Nov 14 23:03:24 2021

File Date: Nov 14 22:46:52 2021

Comments

Client request filter socks

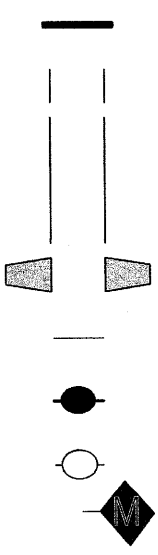
Log Information

Borehole condition confirmed. (method) Logging Date: 12/14/21
MP well design & preparation. By: [illegible] Date: 12/14/21
MP well design checked. By: [illegible] Date: 12/14/21
MP well and borehole approved to install. By: [illegible] Date: 12/14/21

Legend

(Qty) MP Components | **Geology** | **Backfill/Casing**

(Library - WD Library 7/27/00)



(2) 0203 - MP38 End Cap

(18) 020105 - MP38 Casing 2 (5F/1.5M)

(16) 020110 - MP38 Casing 1 (10F/3M)

(8) 0235 - MP38 Packer 100mm (5F/1.5M)

(26) 0202 - MP38 Regular Coupling

(8) 0205 - MP38 Measurment Port

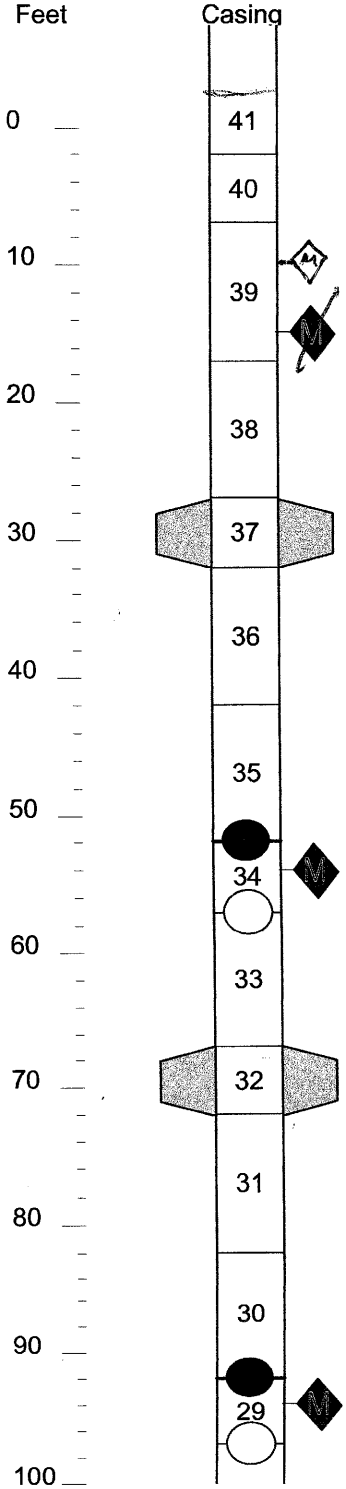
(8) 0224 - MP38 Pumping Port

(9) 0216 - Magnetic Location Collar

(c) Westbay Instruments Inc. 2000

Well Designer Report
TRC

Job No: FS1370
Well: MP-05



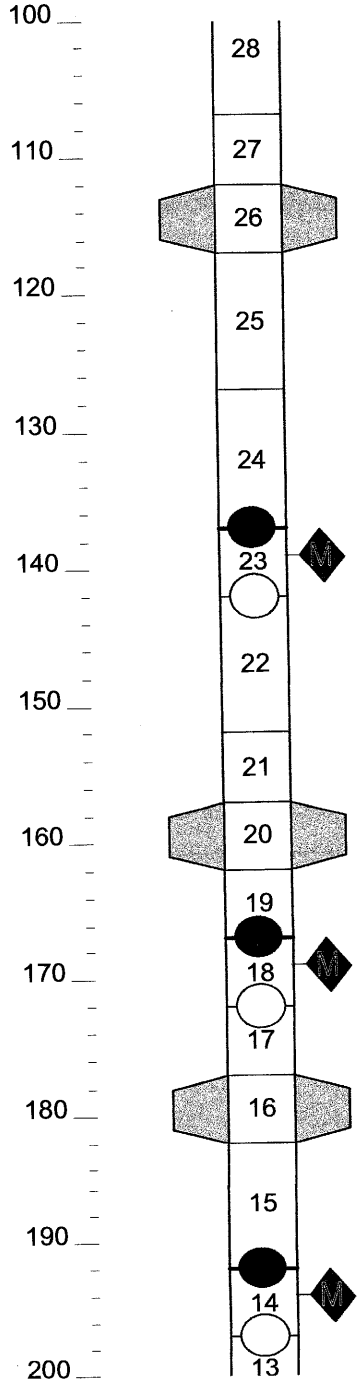
QA Tested OK	MP Casing Description
	020105 - MP38 Casing 2 (5F/1.5M)
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	0235 - MP38 Packer 100mm (5F/1.5M 599 161/140
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	0205 - MP38 Measurment Port 9740 020105 - MP38 Casing 2 (5F/1.5M) 0224 - MP38 Pumping Port 9178
	020110 - MP38 Casing 1 (10F/3M)
	0235 - MP38 Packer 100mm (5F/1.5M 588 170/145
	020110 - MP38 Casing 1 (10F/3M)
	020110 - MP38 Casing 1 (10F/3M)
	0205 - MP38 Measurment Port 9739 020105 - MP38 Casing 2 (5F/1.5M) 0224 - MP38 Pumping Port 9180

(c) Westbay Instruments Inc. 2000

Sun Nov 14 23:02:30 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-05

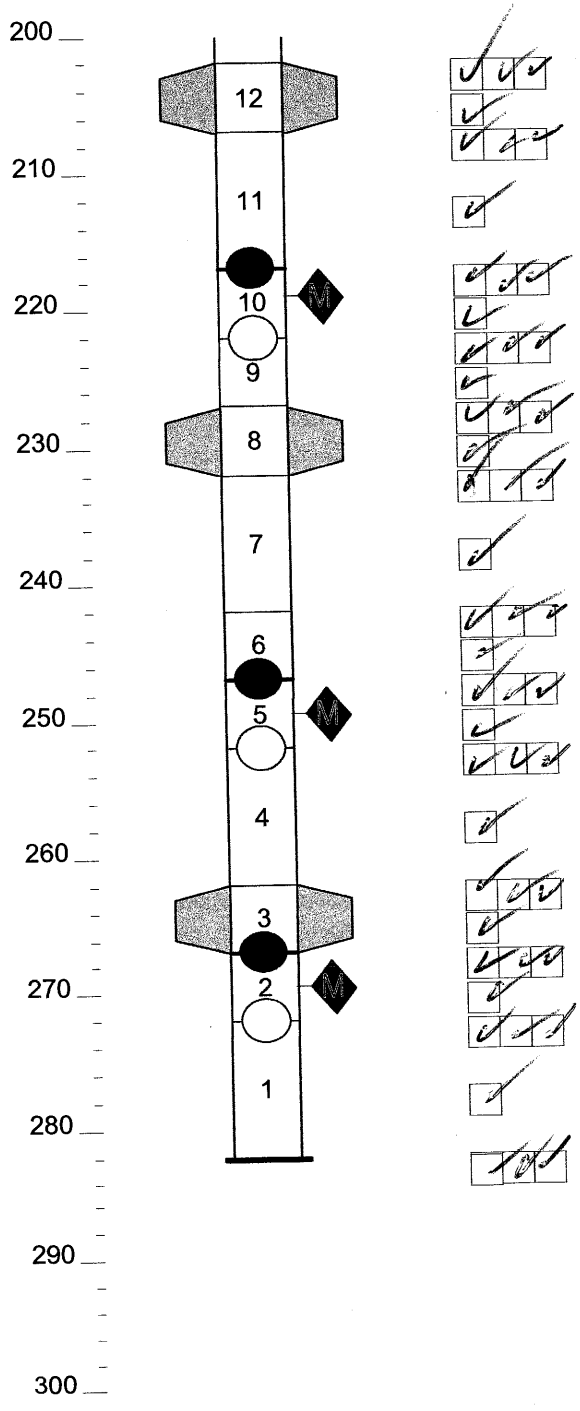


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Sun Nov 14 23:02:30 2021

Well Designer Report
TRC

Job No: FS1370
Well: MP-05



0235 - MP38 Packer 100mm (5F/1.5M 529 150/128

020110 - MP38 Casing 1 (10F/3M)

0205 - MP38 Measurment Port 9741
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9183
020105 - MP38 Casing 2 (5F/1.5M)

0235 - MP38 Packer 100mm (5F/1.5M 530 170/158

020110 - MP38 Casing 1 (10F/3M)

020105 - MP38 Casing 2 (5F/1.5M)
0205 - MP38 Measurment Port 9743
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port ~~9174~~ 9182

020110 - MP38 Casing 1 (10F/3M)

0235 - MP38 Packer 100mm (5F/1.5M 534 145/140
0205 - MP38 Measurment Port 9745
020105 - MP38 Casing 2 (5F/1.5M)
0224 - MP38 Pumping Port 9185

020110 - MP38 Casing 1 (10F/3M)

0203 - MP38 End Cap

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Sun Nov 14 23:02:30 2021

Sheet 1 of 8

Westbay Packer Inflation Record

Project: IRC - Dam Co PFAS Project No.: FS1370 Well No.: MP-05

Location: Rock Cove Completed by: CS Date Inflated: 12/15/21

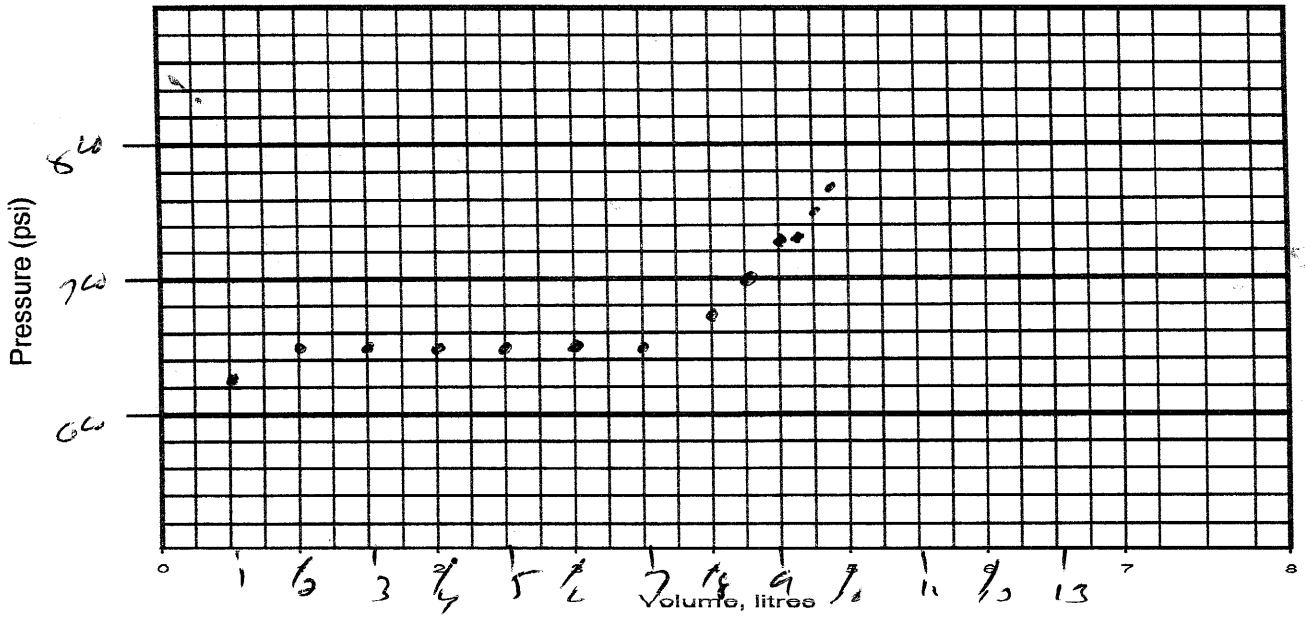
Packer No. 1 - 534 Depth (ft / m): 82 Cal Inflation Tool No.: 71W 1058

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 945 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	8.5	9.0
Pressure, psi	625	650	650	650	650	650	650	675	700	725
Volume, litres	9.25	9.5	9.65	/	9.35					
Pressure, psi	925	950	905	/	∅					



Comments: Packer # 1 Time - 8:33

Sheet 2 of 8

Westbay Packer Inflation Record

Project: TRC Dam Co PFRS Project No.: F51370 Well No.: MP-05

Location: Rock Cen Completed by: CS Date Inflated: 12/15/11

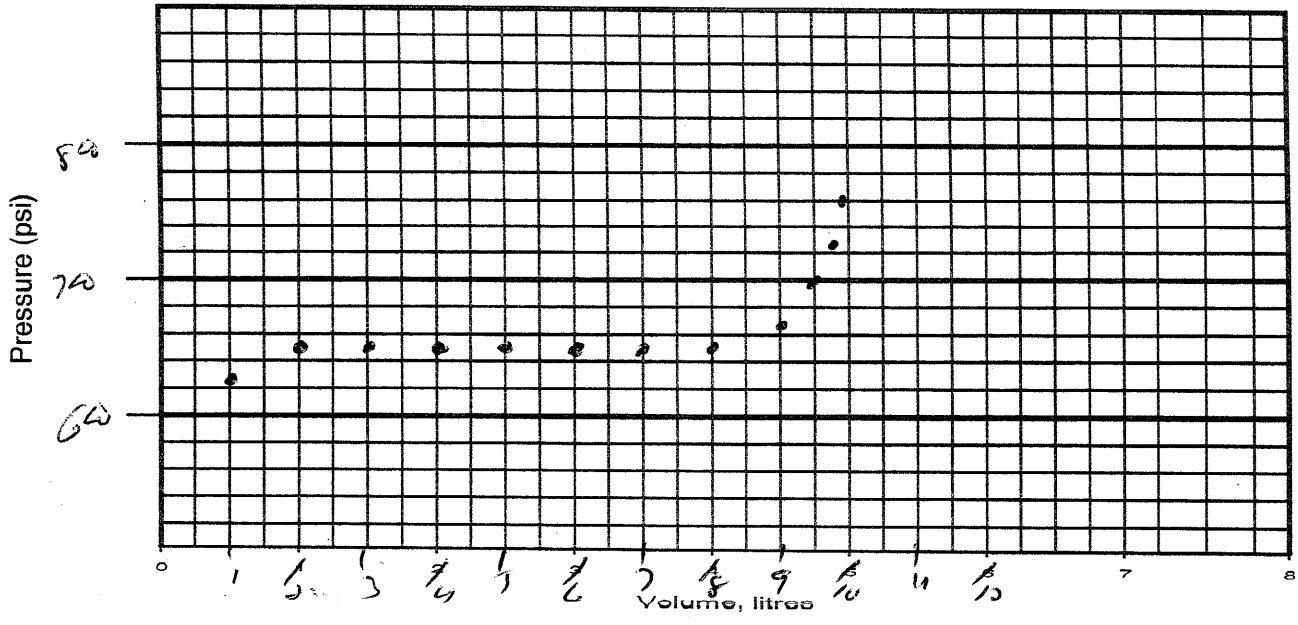
Packer No. 2 - 530 Depth (ft / m): 224 Inflation Tool No.: TW 1088

Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 740 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 122 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	625	650	650	650	650	652	650	650	675	720
Volume, litres	9.75	9.95	/	9.65						
Pressure, psi	725	740	/	0						



Comments: Packer # 2 Time - 9:10

Sheet 7 of 8

Westbay Packer Inflation Record

Project: TRC-Dow Co DFBS Project No.: FS1370 Well No.: MP05

Location: Duck Cove Completed by: CS Date Inflated: 12/15/21

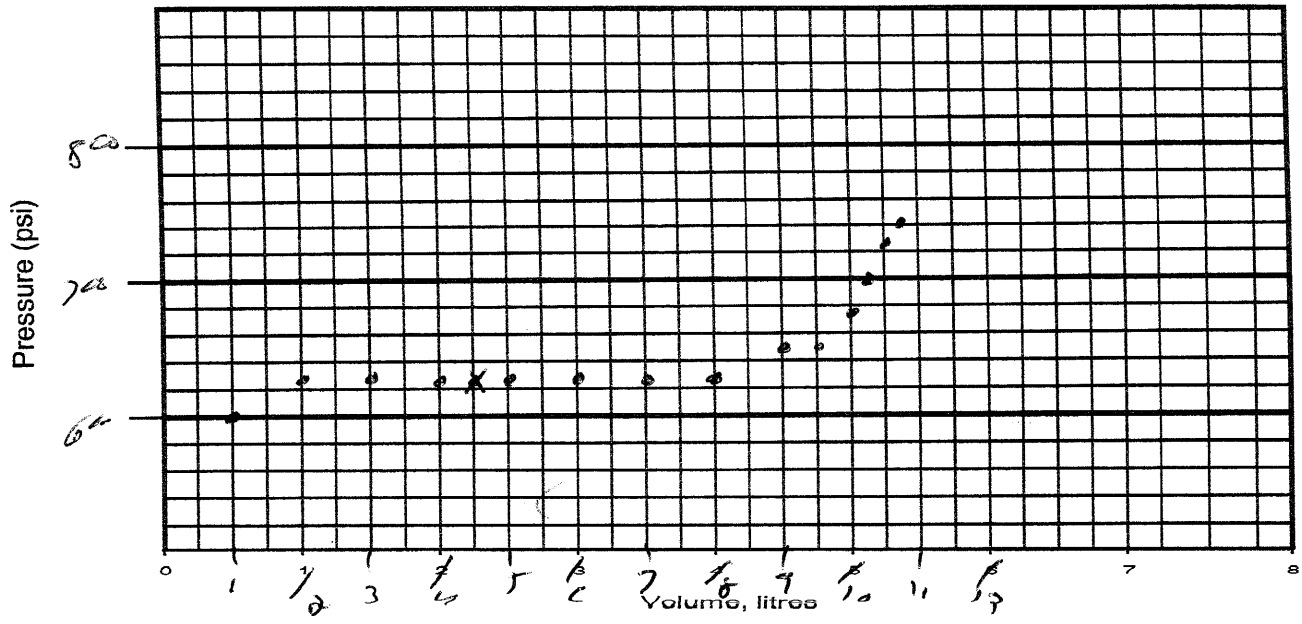
Packer No. 3 - 521 Depth (ft / m): 199 Inflation Tool No.: TW 108F

Packer Valve Pressure, P_V: 125 psi Final Line Pressure, P_L: 740 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 127 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	600	625	625	628	625	625	625	625	650	658
Volume, litres	10.0	10.25	10.5	10.75	/	10.45				
Pressure, psi	675	720	725	740	/	0				



Comments: Packer # 3 Time - 9:54

Westbay Packer Inflation Record

Project: TRC - Dan Co. PFAS Project No.: FS1370 Well No.: MP-05

Location: Rockton Completed by: CS Date Inflated: 12/15/21

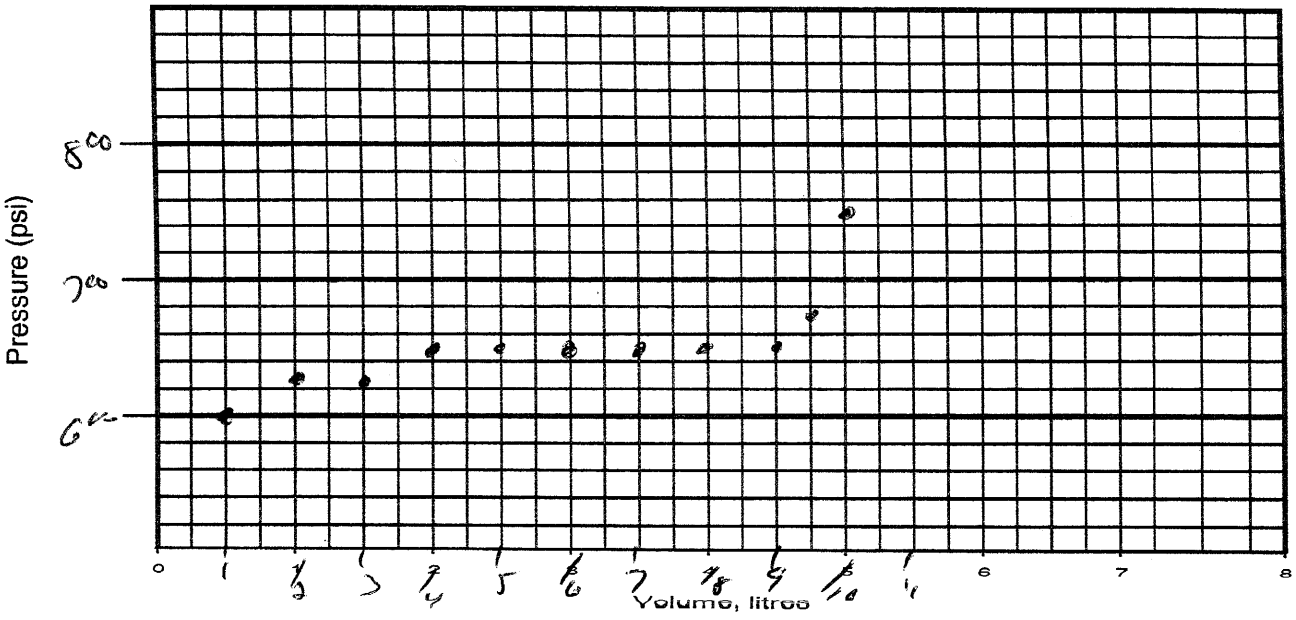
Packer No. 4-531 Depth (ft / m): 174 Inflation Tool No.: TW 1058

Packer Valve Pressure, P_V: 135 psi Final Line Pressure, P_L: 760 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	600	625	625	650	650	650	650	650	650	675
Volume, litres	10.0	10.25	/	9.80						
Pressure, psi	750	760	/	Ø						



Comments: Packer # 4 Time - 10:32

Sheet 5 of 5

Westbay Packer Inflation Record

Project: TRC - Dow Co PFAS Project No.: FJ1370 Well No.: MP-05

Location: Midland Completed by: GS Date Inflated: 12/15/21

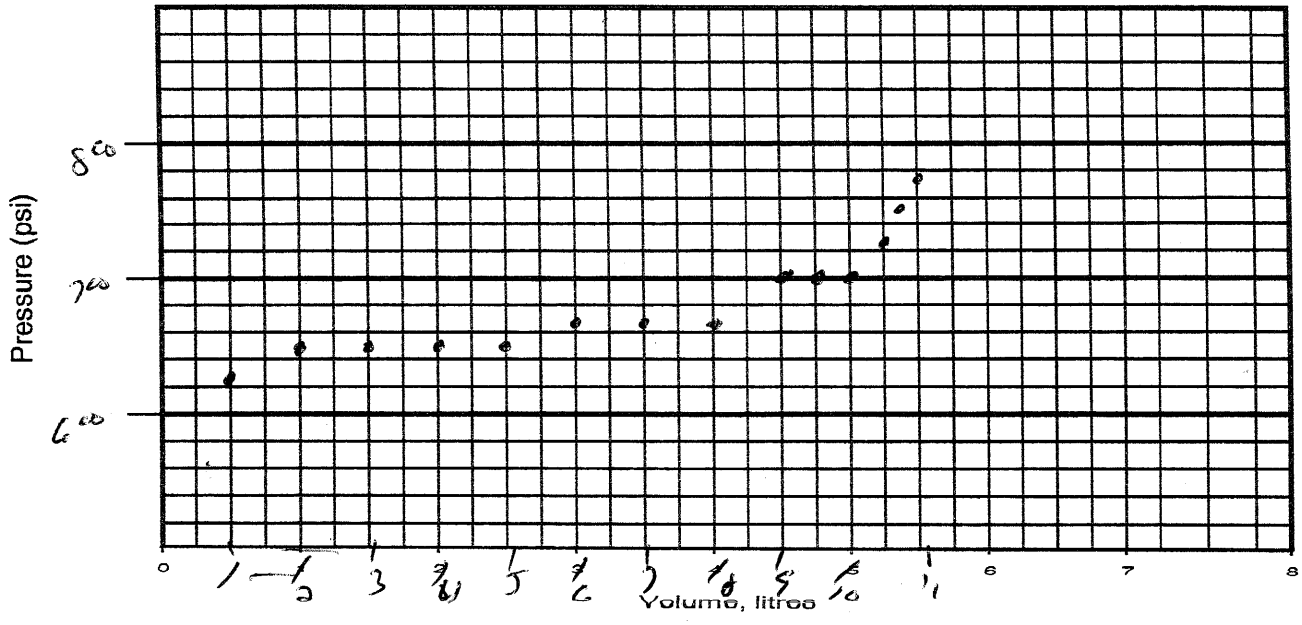
Packer No. 5 - 533 Depth (ft / m): 154 Inflation Tool No.: TIU 1088

Packer Valve Pressure, P_V: 150 psi Final Line Pressure, P_L: 775 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 137 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	625	650	650	650	650	675	675	675	700	700
Volume, litres	10.0	10.50	10.75	11.0	/	10.70				
Pressure, psi	700	725	750	775	/	0				



Comments: Packer # 5 Time - 11:33

Westbay Packer Inflation Record

Project: TRL-Dan Co PFAS Project No.: FS1370 Well No.: MP.05

Location: Rock Cut Completed by: CS Date Inflated: 12/15/21

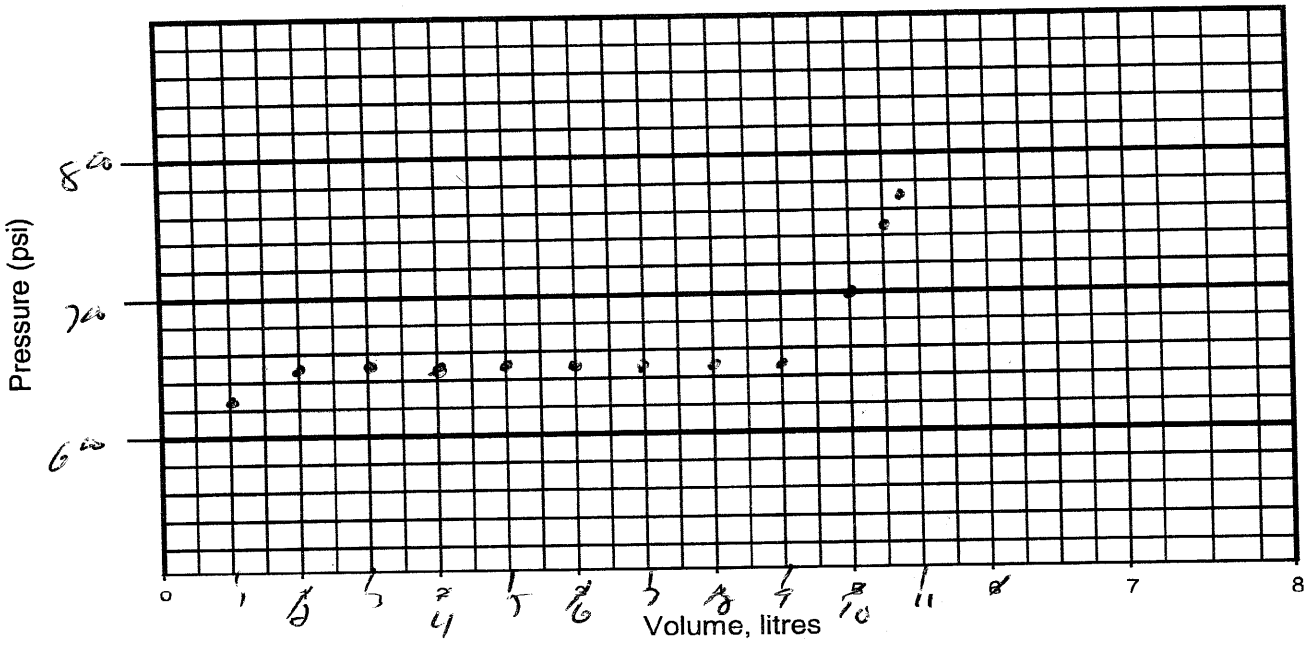
Packer No. C - 532 Depth (ft / m): 109 Inflation Tool No.: TIW 1033

Packer Valve Pressure, P_V: 750 psi Final Line Pressure, P_L: 770 psi Tool Pressure, P_T: 540 psi

Borehole Water Level: 37 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 132 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	625	650	650	650	650	650	650	650	650	700
Volume, litres	10.5	10.70	/	10.90						
Pressure, psi	750	770	/	0						



Comments: Packer # 6 Time - 10:18

Sheet 7 of 8

Westbay Packer Inflation Record

Project: TRC - Dan Ca PFAS Project No.: FS1320 Well No.: MP-05

Location: Rock Gem Completed by: CS Date Inflated: 12/15/21

Packer No. 7 - 588 Depth (ft / m): 64 Inflation Tool No.: TW 1088

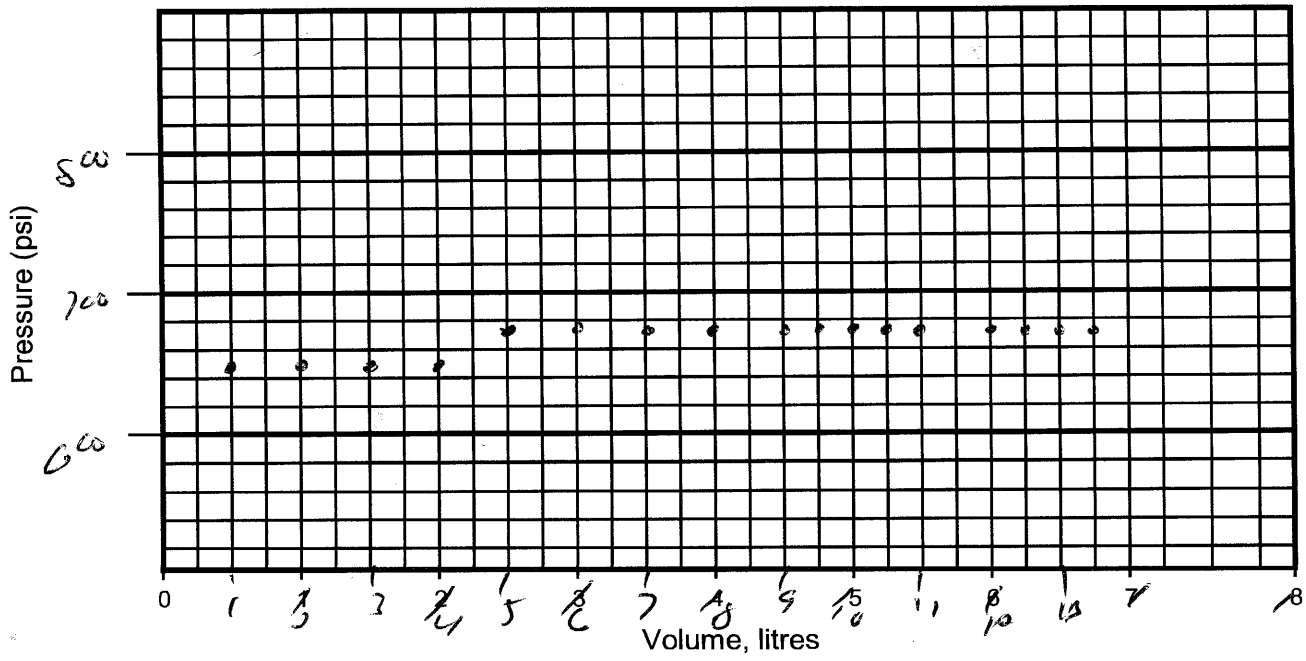
Packer Valve Pressure, P_V: 145 psi Final Line Pressure, P_L: 675 psi Tool Pressure, P_T: 520 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 42 psi

Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	9.5
Pressure, psi	650	650	650	600	675	675	675	675	675	675

Volume, litres	10.0	10.5	11.0	12.0	12.5	13.0	13.5	/	13.20	
Pressure, psi	675	675	678	675	675	675	678	/	9	



Comments: Packer # 7 Time - 13:00

Sheet 8 of 8

Westbay Packer Inflation Record

Project: TRC Dan Co PFAS Project No.: FS1220 Well No.: MP-05

Location: Radcom Completed by: CS Date Inflated: 12/15/21

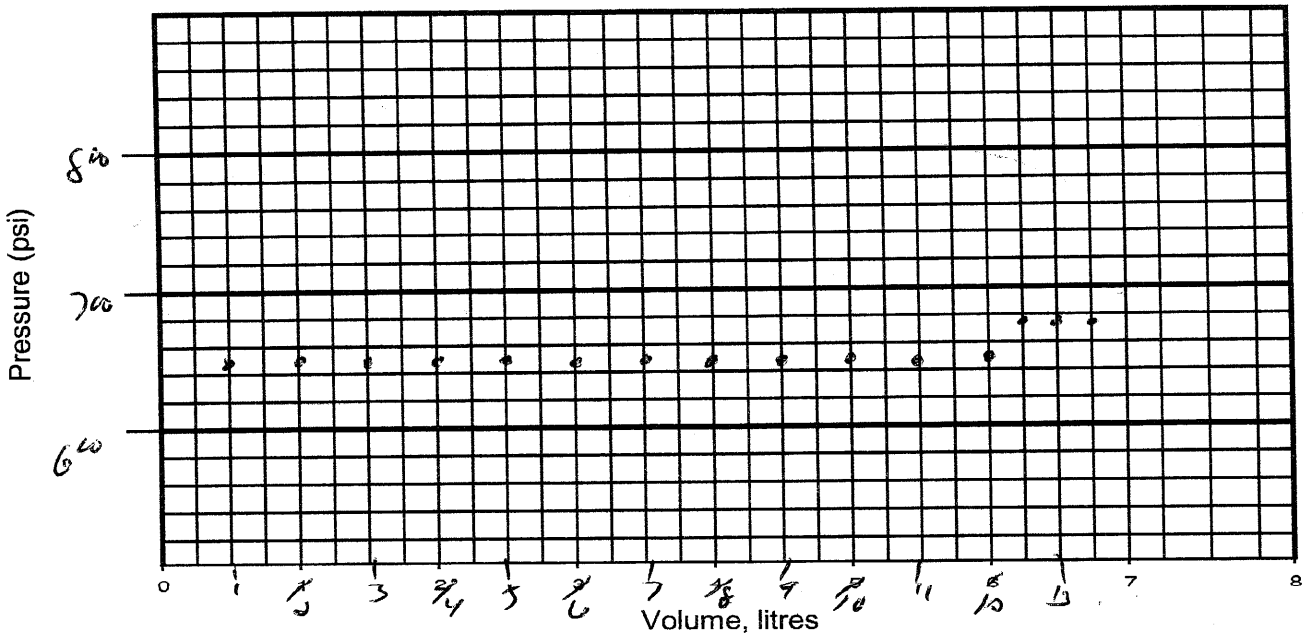
Packer No. 8 - 591 Depth (ft / m): 24 Inflation Tool No.: TW 1058

Packer Valve Pressure, P_V: 140 psi Final Line Pressure, P_L: 675 psi Tool Pressure, P_T: 500 psi

Borehole Water Level: 27 (ft / m) = 12 psi (P_W)

Calculated Packer Element Pressure, $P_E = P_L + P_W - P_V - P_T$ = 47 psi

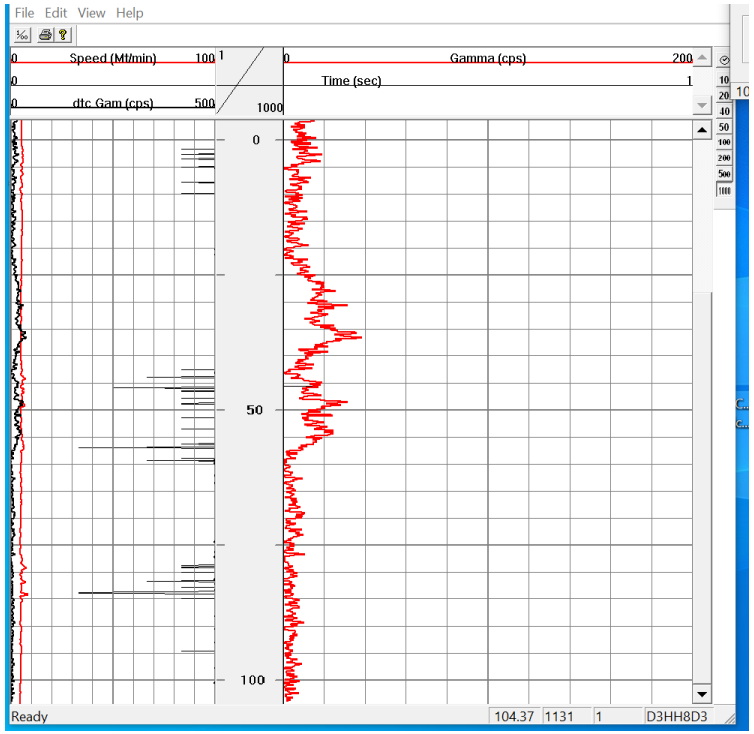
Volume, litres	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Pressure, psi	658	658	650	650	650	650	650	650	650	650
Volume, litres	11.0	12.0	12.5	13.0	13.5	/	13.25			
Pressure, psi	650	650	675	675	675	/	Ø			

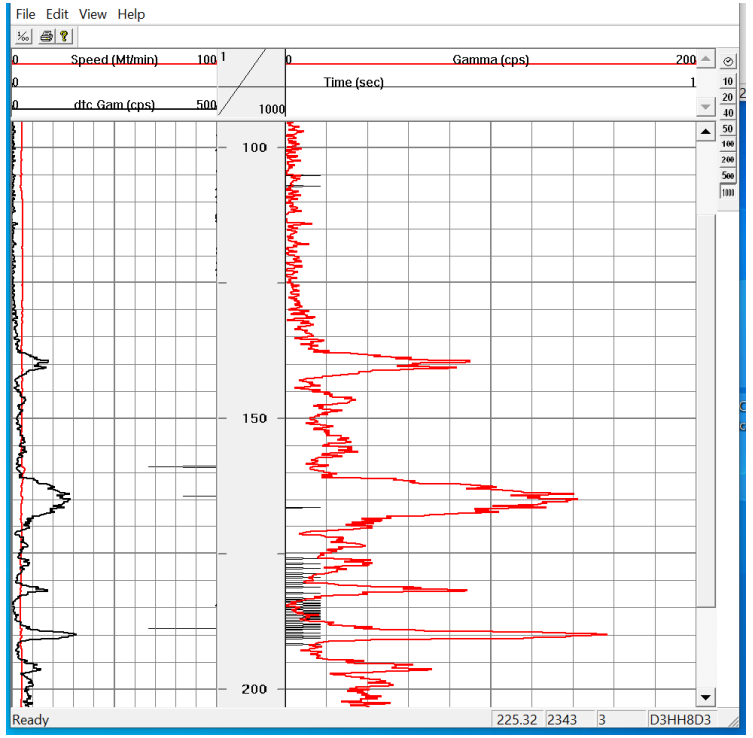


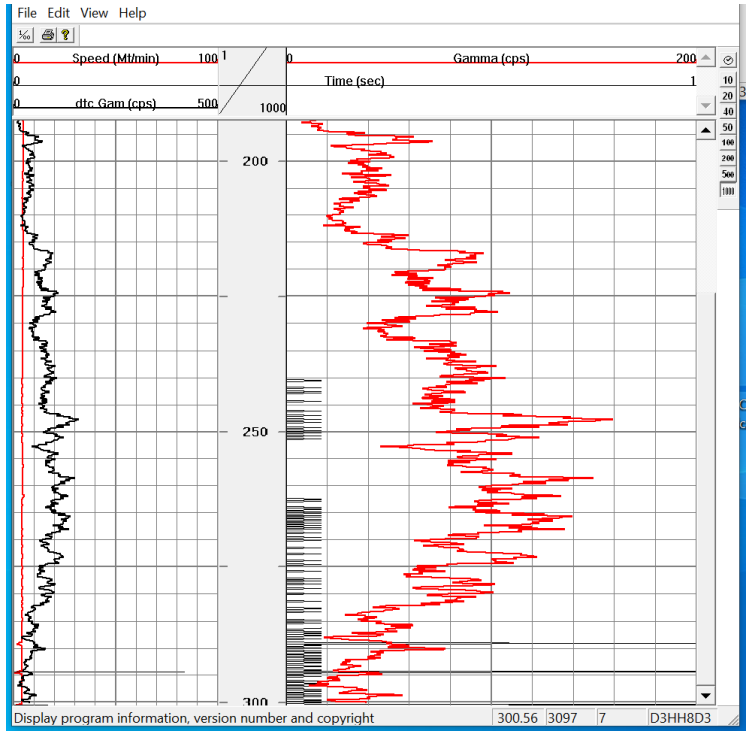
Comments: Packer # 8 Time - 13:48

Appendix C: Gamma Ray Logging Data

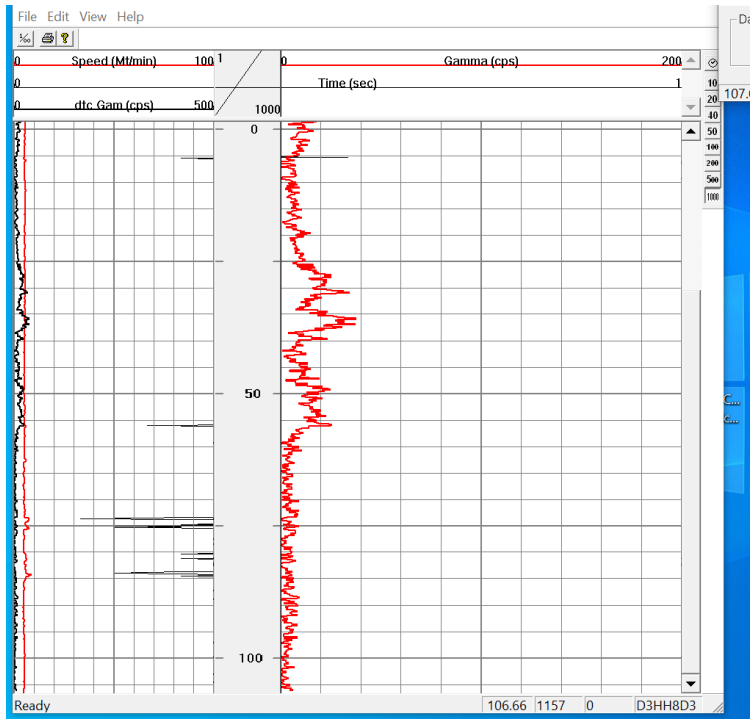
MP-01: Run 1

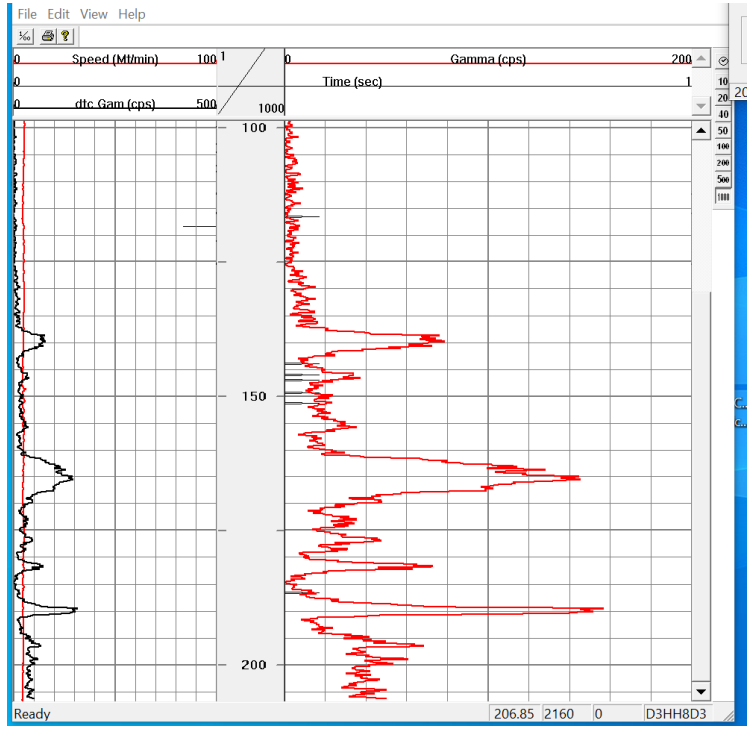

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Gamma (cps)
Time (sec)
dtc Gam (cps)
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50
100
Ready
104.37 1131 1 D3HH8D3

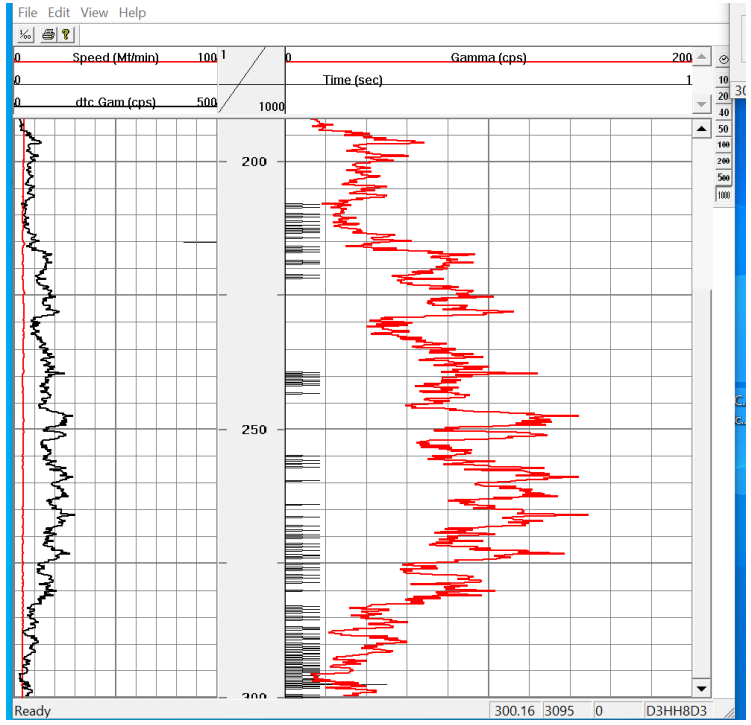

File Edit View Help
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Gamma (cps)
Time (sec)
dtc Gam (cps)
100
150
200
Ready
225.32 2343 3 D3HH8D3


File Edit View Help
Speed (Mt/min)
Gamma (cps)
Time (sec)
dtc Gam (cps)
200
250
300
Display program information, version number and copyright
300.56 3097 7 D3HH8D3

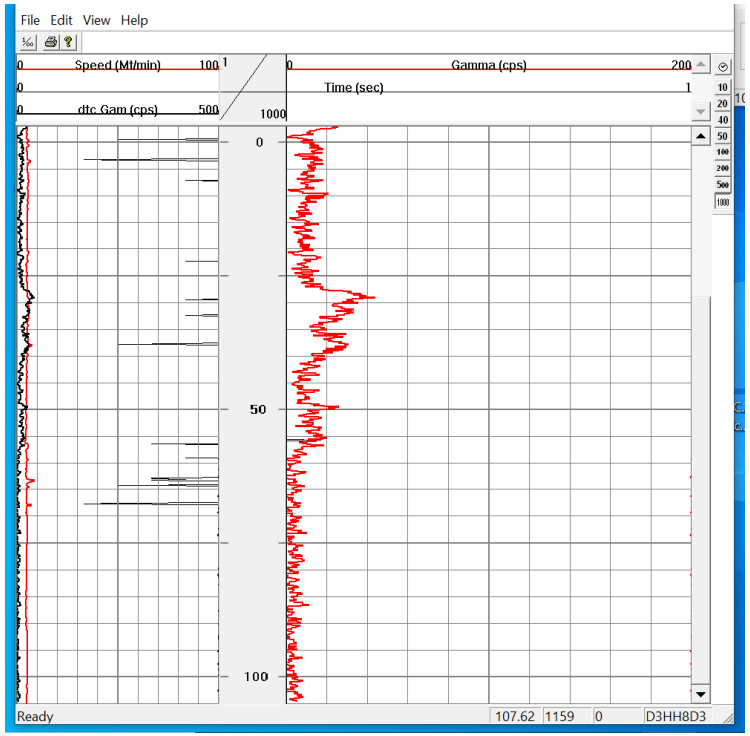
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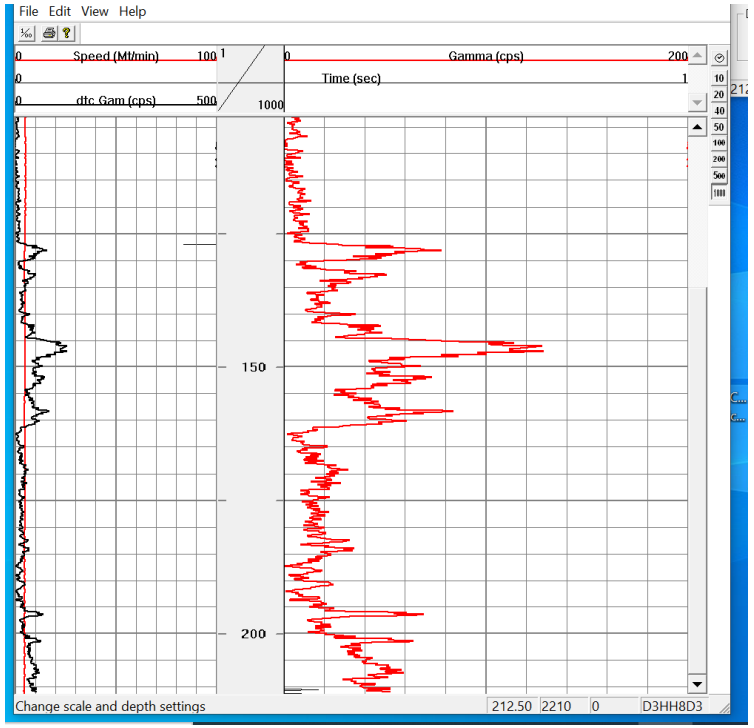

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Time (sec)
dtc Gam (cps)
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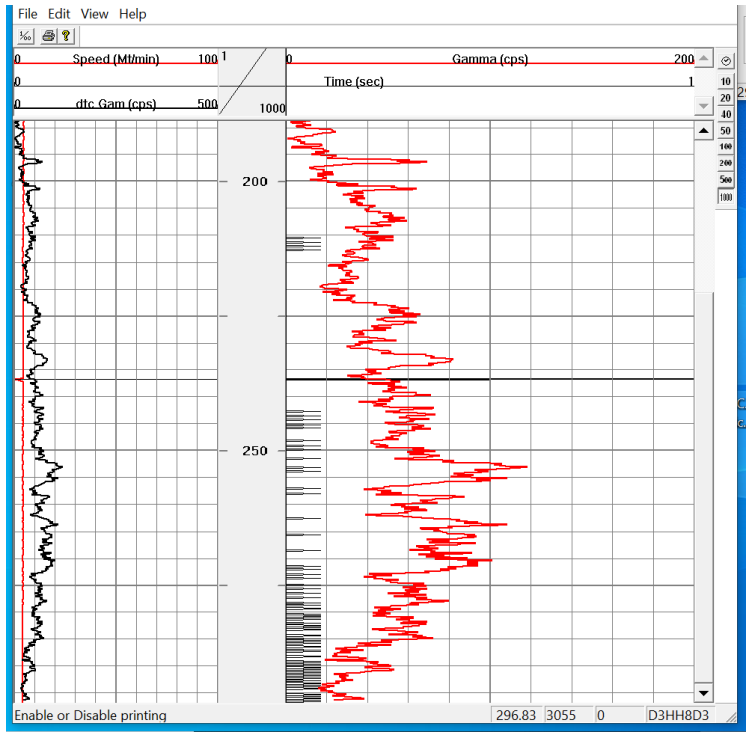

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Gamma (cps)
Time (sec)
dtc Gam (cps)
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206.85 2160 0 D3HH8D3


File Edit View Help
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Gamma (cps)
Time (sec)
dtc Gam (cps)
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300.16 3095 0 D3HH8D3

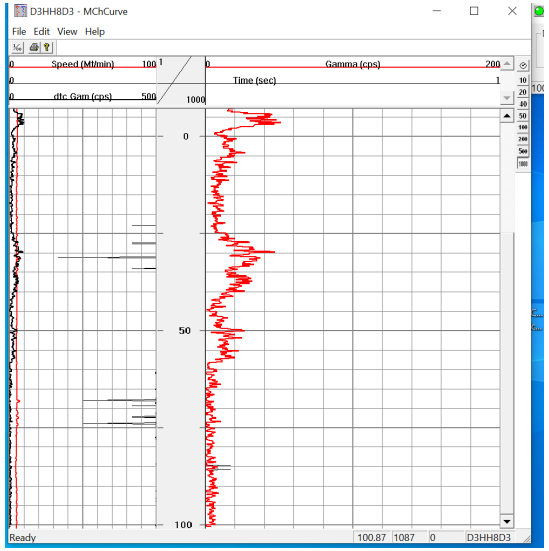
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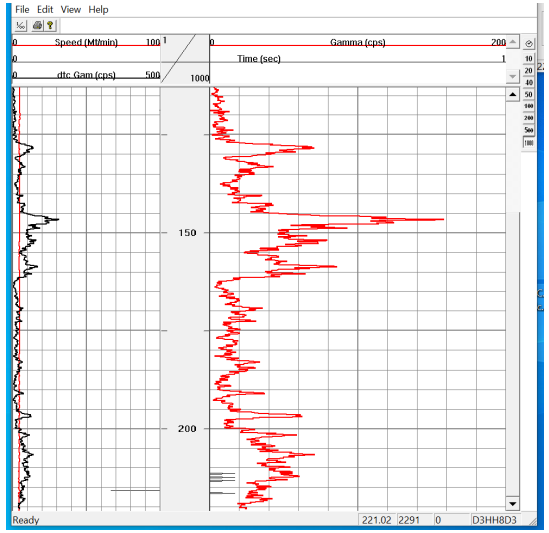

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Time (sec)
dtc Gam (cps)
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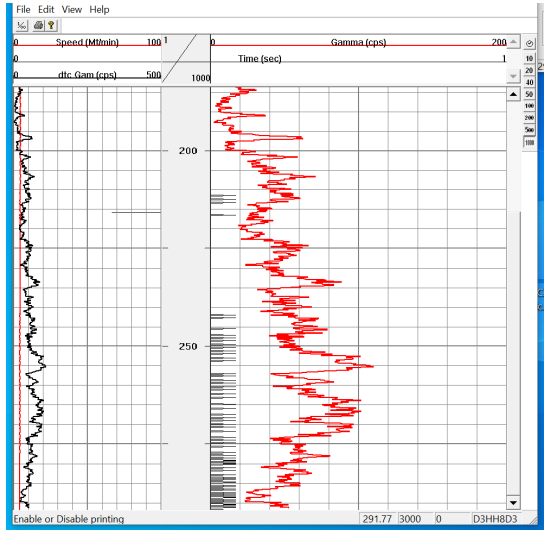

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Time (sec)
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Change scale and depth settings
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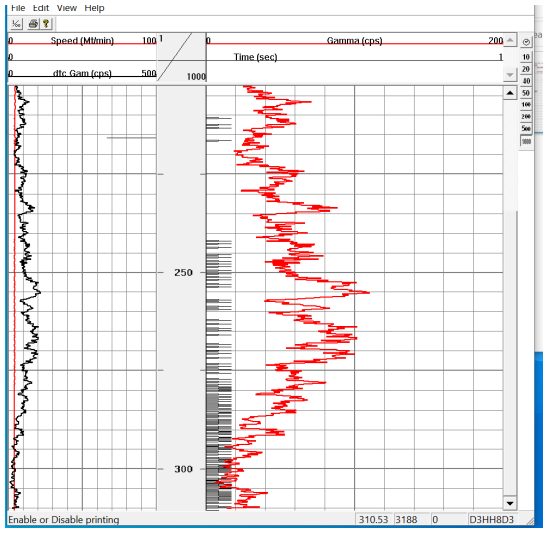

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Time (sec)
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MP-02: Run 2

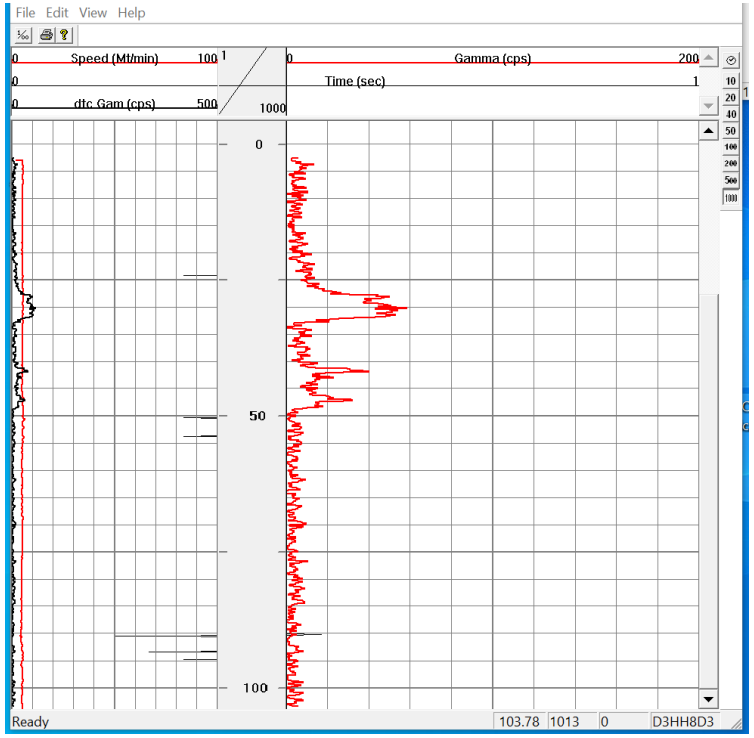

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Gamma (cps)
Time (sec)
dtc Gam (cps)
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D3HH8D3

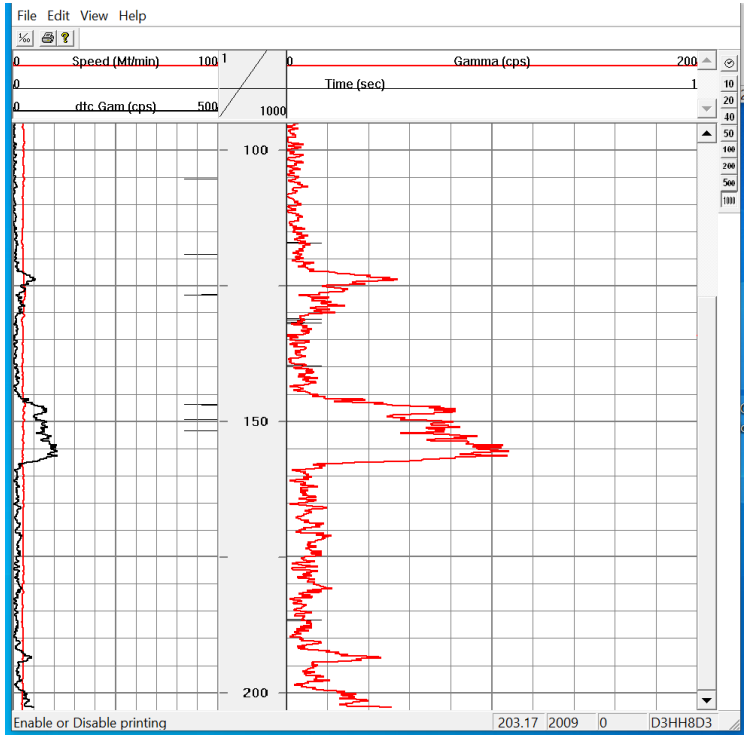

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dtc Gam (cps)
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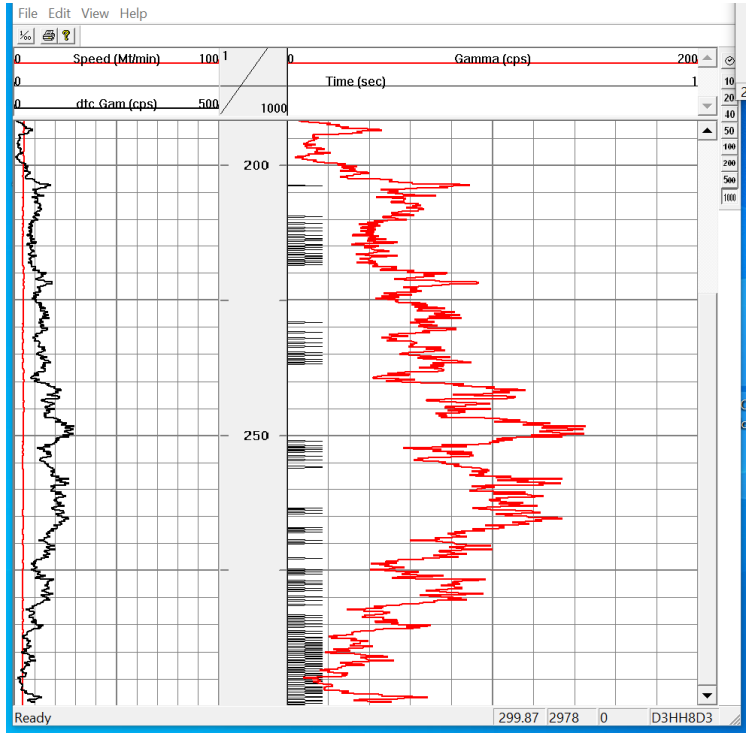

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Gamma (cps)
Time (sec)
dtc Gam (cps)
Enable or Disable printing
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File Edit View Help
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Gamma (cps)
Time (sec)
dtc Gam (cps)
Enable or Disable printing
D3HH8D3

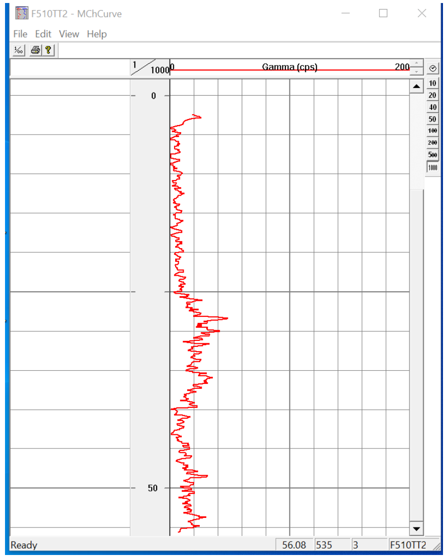
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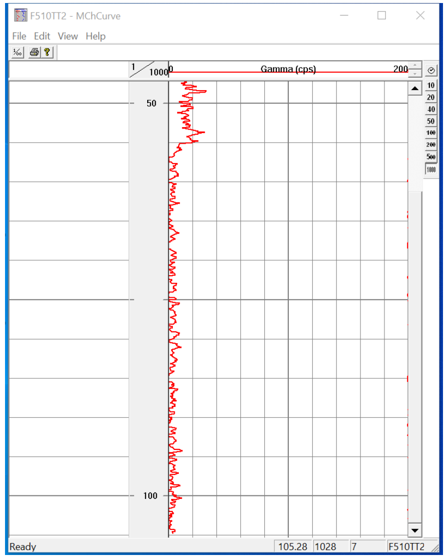

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dtc Gam (cps)
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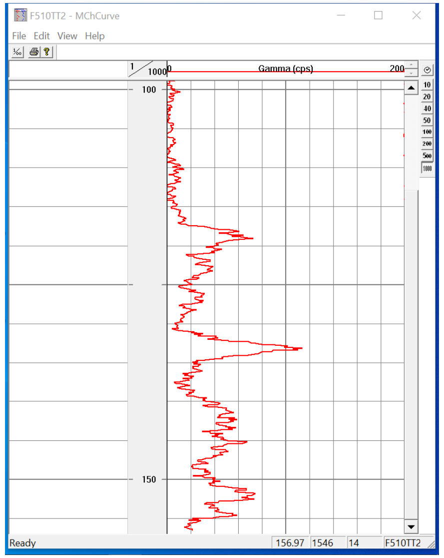

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Time (sec)
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200
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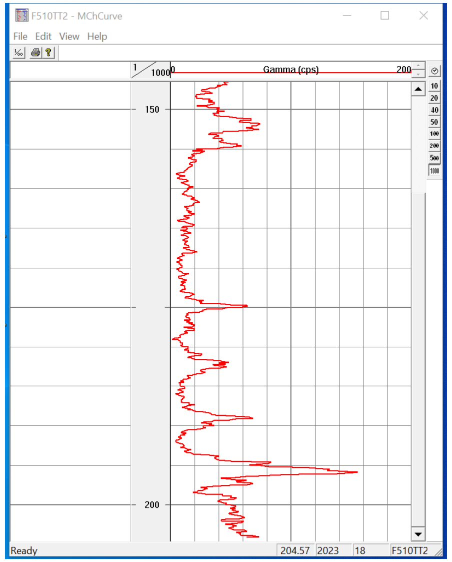

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Time (sec)
dtc Gam (cps)
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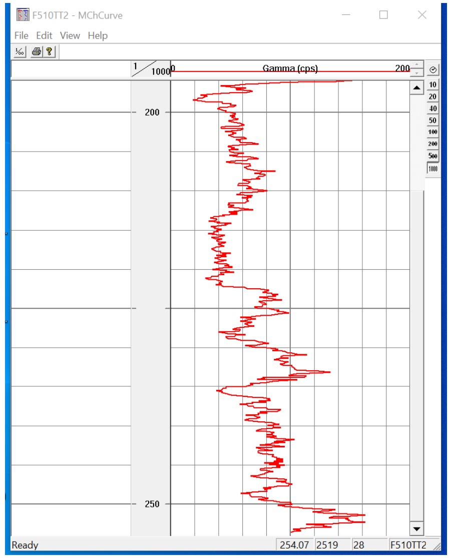
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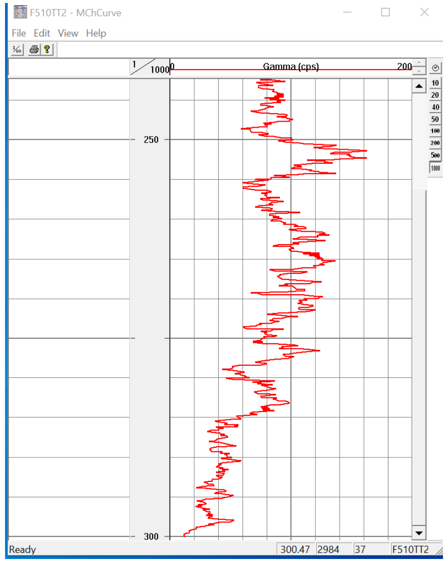

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0
50
10 20 40 50 100 200 500 1000
Ready 56.08 535 3 F510TT2


F510TT2 - MChCurve
File Edit View Help
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0 Gamma (cps) 200
50
100
10 20 40 50 100 200 500 1000
Ready 105.28 1028 7 F510TT2

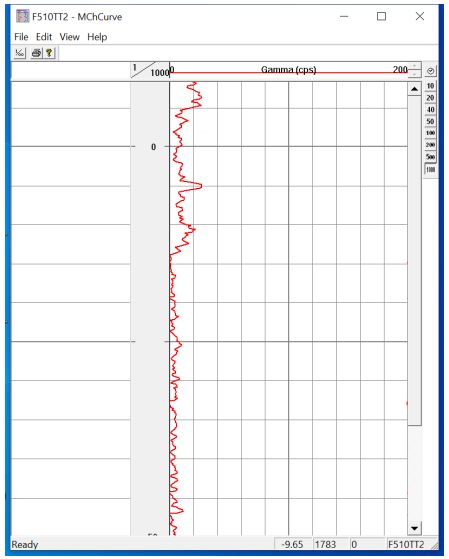

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File Edit View Help
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100
150
10 20 40 50 100 200 500 1000
Ready 156.97 1546 14 F510TT2

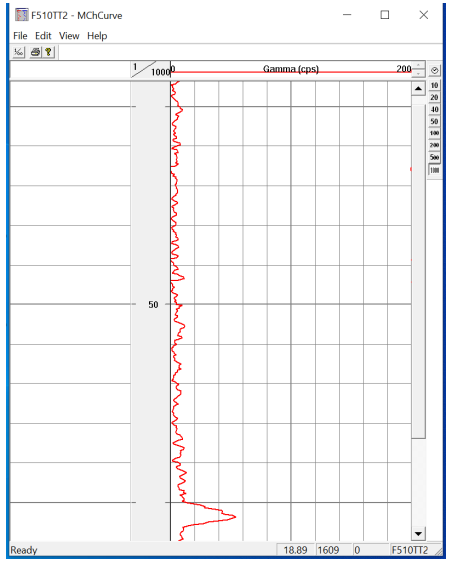

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150
200
10 20 40 50 100 200 500 1000
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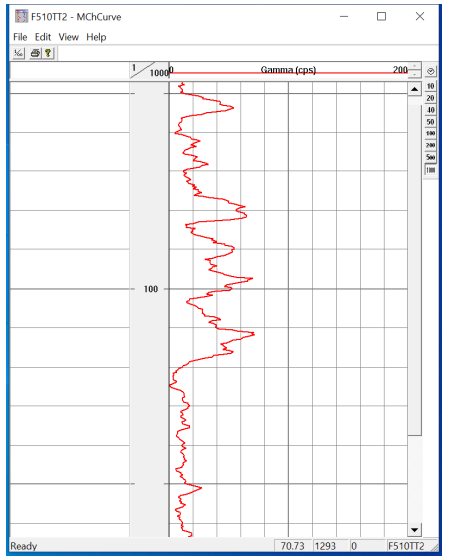

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250
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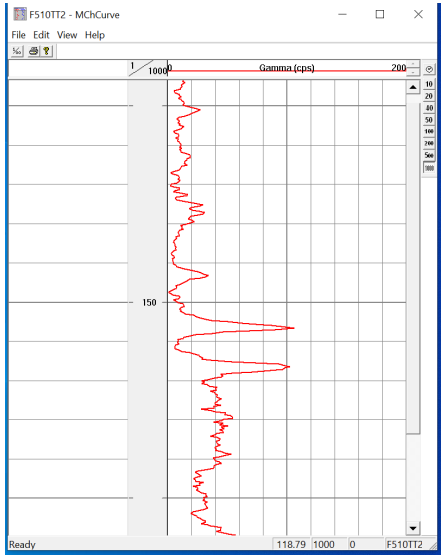

F510TT2 - MChCurve
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0 Gamma (cps) 200
250
300
10 20 40 50 100 200 500 1000
Ready 300.47 2984 37 F510TT2

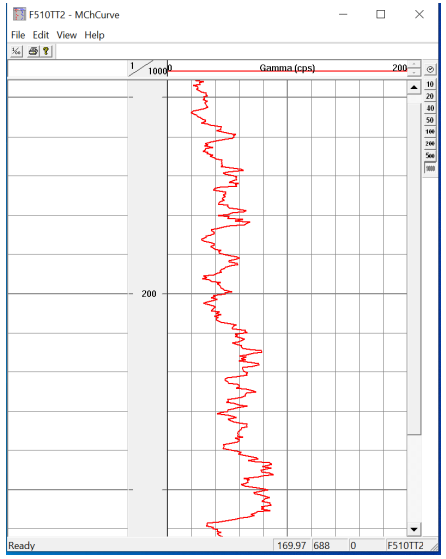
MP-05: Run 1

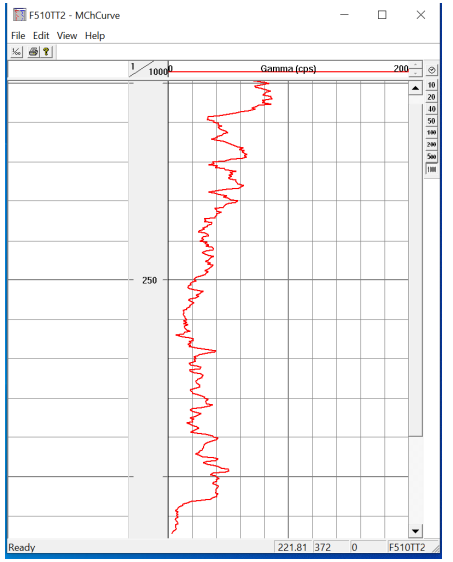

F510TT2 - MChCurve
File Edit View Help
Gamma (cps)
0
Ready
-9.65 1783 0 F510TT2


F510TT2 - MChCurve
File Edit View Help
Gamma (cps)
50
Ready
18.89 1609 0 F510TT2


F510TT2 - MChCurve
File Edit View Help
Gamma (cps)
100
Ready
70.73 1293 0 F510TT2


F510TT2 - MChCurve
File Edit View Help
Gamma (cps)
150
Ready
118.79 1000 0 F510TT2


F510TT2 - MChCurve
File Edit View Help
Gamma (cps)
200
Ready
169.97 688 0 F510TT2


F510TT2 - MChCurve
File Edit View Help
Gamma (cps)
250
Ready
221.81 372 0 F510TT2

Appendix D: Waste Profile

Valicor
Environmental Services

☑ New
☐ Requalification

VALICOR INTERNAL USE ONLY
ISOLATION ☐ Yes ☐ No

NAME OF WASTE STREAM: LowLevel PFAs Imp'd. Groundwater
PROFILE/APPROVAL NUMBER:

☐ Solidification ☐ Reuse

Designated Facility:

Designated Facility:

GENERATOR INFORMATION	BILLING INFORMATION
Generator Name RockGen Energy Center	**Billing Name** Sustain, LLC
Contact Person Jeff Ramey - TRC Environmental (consultant)	Contact Person Tyler Munson
Address 2346 Clear View Road	Address 4648 Bentwood Road
City Cambridge	City New Waterford
State WI	State OH
Zip 53523	Zip 44445
Phone 608-423-9050	Phone 608-320-5080
Fax	Fax
Email jramey@trcsolutions.com	Email tmunson@sustainenvironmental.com
EPA ID #	**PO Required** ☐ No ☑ Yes: 15118
TRANSPORTER ☐ Valicor ☑ Other: Sustain, LLC	**RCRA HAZARDOUS** ☐ Yes ☑ No ☐ Exempt
DOT SHIPPING NAME Investigation Derived Waste	Generating Process: Impacted groundwater pumped from monitoring wells outside of source area

PHYSICAL CHARACTERISTICS
Infectious or Biological Waste: ☐ Yes ☑ No
NRC Regulated Radioactivity: ☐ Yes ☑ No
Reactivity: ☑ None ☐ Water ☐ Shock ☐ Cyanides ☐ Sulfides ☐ DOT Explosive ☐ Other

☐ Solids	%
☐ Sludges	%
☑ Free Liquids	100 %

LAYERS ☑ Single-Layered ☐ Bi-Layered ☐ Multi-Layered

ODOR ☑ None ☐ Mild ☐ Strong
Describe:

VISCOCITY ☑ Low ☐ Medium ☐ High

PH ☐ N/A ☐ 0-2.0 ☐ 2.1-4 ☑ 4.1-10 ☐ 10.1-12.0 ☐ ≥12.5
Exact: _____

COLOR/APPEARANCE
Clear

FLASH POINT (liquid only)
☐ <73°F ☐ 73-140°F ☐ 141-200°F ☑ >200°F ☐ Exact: _____

VOLUME AND FREQUENCY
☐ One Time ☑ Weekly ☐ Monthly ☐ Annually # Gallons: 5000
VOLUME ☐ Drum ☐ Tote ☐ Bulk # Totes/Drums: _____

CWT CLASSIFICATION (40 CFR PART 437):
☐ **OIL SUBCATEGORY**
• Used Oil • Coolants Oil • Water Mixture Contaminate • Ground Water
☐ **METAL SUBCATEGORY**
• Waste acid and bases with or without metals • Metal finish rinse water
•Cleaning, rinsining, and surface preparation for electroplating and phosphating
☒ **ORGANIC SUBCATEGORY**
• Landfil Leachate • Contaminated ground water from non-petroleum source
• Solvent bearing waste • Off-spec organic product
• Wastewater from paint washes, adhesives, and/or epoxies

ADDITIONAL CHARACTERISTICS

Does material contain Polychlorinated Biphenyl's (PCB's)?	☐ Yes ☑ No
Is this PCB waste regulated by TSCA? (PCB ≥ 50 ppm or derived from a ≥ 50 ppm source)	☐ Yes ☑ No
Is this waste derived from drilling or hydraulic fracking operations relating to the oil & gas industry?	☐ Yes ☑ No
If yes, is the material considered to be associated with UOG (unconventional Oil and Gas) Extraction wastewater ie, brine or flowback waters?	☐ Yes ☐ No
Is waste subject to the National Emissions standards for Benzene Waste Operations? (40 CFR 61 Subpart FF)	☐ Yes ☑ No
Is this regulated as a marine pollutant?	☐ Yes ☑ No
Does the waste stream contain any known poly/per-fluroinated compounds? (if yes, then complete PFAS certification)	☑ Yes ☐ No

PHYSICAL/CHEMICAL CONSTITUENTS
Attached all SDS, sample analysis and other information

See attached analytical	

GENERATOR'S CERTIFICATION: I hereby certify that the above attached description is complete and accurate for the best of my knowledge and ability to determine that no deliberate or willful omission of composition properties exists and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this profile. Also, I acknowledge that oil containing more than 1,000 ppm total halogens is presumed to be hazardous waste per 40 CFR279. However, that presumption can be rebutted by applying my knowledge of my halogen content of the used oil in light of the materials of processes used in my operations. To the best of my knowledge and belief, I certify to VALICOR that our used oils are generated from industrial usage and we do not mix hazardous waste with our oil. I understand that every time I and or another of our employees sign the non-hazardous manifest or bill of lading, we are re-certifying this rebuttal presumption. In addition, to the best of my knowledge and belief, all information on these forms is a complete and accurate representation of our waste stream(s). **I will notify VALICOR in ADVANCE of changes to the waste stream(s).**
I will comply with all local, state, and federal regulations with regards to your waste stream(s).

Customer Signature ON BEHALF OF ROCKGEN ENERGY LLC **Title** NATIONAL PROGRAM MANAGER **Date** 10/12/21

Valicor Approval Signature _____ **Title** _____ **Date** _____

MANIFEST	1. Generator ID Number: CESQG	2. Page 1 of 1	3. Emergency Response Phone: CHEMTREC (800)424-9300 (CCN #: 659847)	Waste Tracking Number: WIS2331-1

5. Generator's Name and Mailing Address	Generator's Site Address (if different than mailing address)
Sustain LLC-RockGen Energy Center PFA Drill Cuttings 2346 Clear View Rd Cambridge, WI 53523 United States Generator's Phone:	
6. Transporter 1 Company Name LAKELAND CARTAGE	U.S. EPA ID Number WID988585692
7. Transporter 2 Company Name	U.S. EPA ID Number
8. Designated Facility Name and Site Address Valicor Environmental Services, LLC 27140 Princeton Ave, Inkster, 48141 Facility's Phone: (313) 724-8600	U.S EPA ID Number: MID057002602

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	Profile #	PO#
NON-REG SOLIDS DRUMS			5200 gal	1		

13. Special Handling Instructions and Additional Information	Truck Trailer Arrival Date	31 1273

14. GENERATOR'S/OFFER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all aspects in proper condition for transport according to application internal and national governmental regulations.

Generator's/Offer's Printed/Typed Name	Signature	Month	Day	Year
ON Behalf of RockGEN	Joe Evan	11	15	2023

15. Transporter Acknowledge of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Dale Herbst	Dale Herbst	11	15	2023
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

16. Discrepancy

16a. Discrepancy Indication Space	Quantity	Type	Residue	Partial Rejection	Full Rejection
	☐	☐	☐	☐	☐

Manifest Reference Number:

17. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 15a.

Printed/Typed Name	Signature	Month	Day	Year