Illinois Environmental Protection Agency

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ILLINOIS EPA RCRA CORRECTIVE ACTION CERTIFICATION

This certification must accompany any document submitted to Illinois EPA in accordance with the corrective action requirements set forth in a facility's RCRA permit. The original and two copies of all documents submitted must be provided.

1.0 Facility Identification

Name: Equilon Enterprises LLC d/b/a/ Shell
County: Madison
Street Address: 900 South Central Ave
Site No. (IEPA): 1191150002
City: Roxana
Site No. (USEPA): ILD080 012 305

2.0 Owner Information

Name: Not Applicable
Mail Address:
City:
State: Zip Code:
Contact Name:
Contact Title:
Phone:

3.0 Operator Information

Name: Equilon Enterprises LLC d/b/a/ Shell
Mail Address: 128 East Center Street
City: Nazareth
State: PA Zip Code: 18064
Contact Name: Leroy Bealer
Contact Title: Senior Program Manager
Phone: 484-632-7955

4.0 Type of Submission (check applicable item and provide requested information, as applicable)

☐ RFI Phase I Workplan/Report
☐ RFI Phase II Workplan/Report
☒ CMP Report;
☐ Other (describe):

IEPA Permit Log No. B-43R
Date of Last IEPA Letter on Project June 21, 2024
Log No. of Last IEPA Letter on Project B-43R-M-51 and B-43R-M-52
Does this submittal include groundwater information: ☒ Yes ☐ No

Former Public Works Yard Steam Enhanced Extraction System - Construction Completion Report

Date of Submittal 12/17/2024

5.0 Description of Submittal: (briefly describe what is being submitted and its purpose)

Corrective Measures Program Phase III report providing SEE system construction and installation information.

6.0 Documents Submitted (identify all documents in submittal, including cover letter; give dates of all documents)

Cover letter, RCRA Corrective Action Certification, and Report dated 12/17/2024 Copy of submittal also sent directly to D. Austin, G. Ko, T. Halteman, and A. Al-Janabi of IEPA.

7.0 Certification Statement

(This statement is part of the overall certification being provided by the owner/operator, professional and laboratory in Items 7.1, 7.2 and 7.3 below). The activities described in the subject submittals have been carried out in accordance with procedures approved by Illinois EPA. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7.1 Owner/Operator Certification

(Must be completed for all submittals. Certification and signature requirements are set forth in 35 IAC 702.126.) All submittals pertaining to the corrective action requirements set forth in a RCRA Permit must be signed by the person designated below (or by a duly authorized representative of that person):

1. For a Corporation, by a principal executive officer of at least the level of vice president.
2. For a Partnership or Sole Proprietorship, by a general partner or the proprietor, respectively.
3. For a Governmental Entity, by either a principal executive officer or a ranking elected official.

A person is a duly authorized representative only if:

1. the authorization is made in writing by a person described above; and
2. the written authorization is provided with this submittal (a copy of a previously submitted authorization can be used).

Owner Signature: _____ Date: _____

Title: _____

Operator Signature: _____ Date: 12/4/2024

Title: **Senior Program Manager**

7.2 Professional Certification (if necessary)

Work carried out in this submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. No one is relieved from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44 (h))

Professional's Signature: Wendy Pennington Date: 12/5/2024

Professional's Name Wendy Pennington

Address 100 N. Broadway, 20th Floor Professional's Seal:

City St. Louis

State MO Zip Code ~~63308~~ 63102

Phone 314-452-8929

LICENSED PROFESSIONAL ENGINEER
WENDY M. PENNINGTON
062.064098
expires 11-30-25
STATE OF ILLINOIS

For: FPWY SEE System Construction completion Report
Date of Submission: 12/17/2024

7.3 Laboratory Certification (if necessary)

The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory Eurofins Environment Testing Northern CA, LLC (Eurofins Air Toxics)

Signature of Laboratory Responsible Officer

Date: March 1, 2024

Mailing Address of Laboratory

Address 180 Blue Ravine Rd Ste. B

City Folsom

State CA Zip Code 95630

Heidi Hayes, Technical Director

Name and Title of Laboratory Responsible Officer

For: FPWYSEE System Construction Completion Report
Date of Submission: 12/17/2024

7.3 Laboratory Certification (if necessary)

The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory Eurofins Environment Testing Southeast, LLC

Garrett Erm — Date: 2/23/2024

Signature of Laboratory Responsible Officer

Mailing Address of Laboratory

Address 3355 McLemore Street

City Pensacola

State FL Zip Code 32514

Business Unit Manager

Name and Title of Laboratory Responsible Officer

IEPA RCRA Corrective Action Certification
For: FPWY SEE System Contruction Completion Report
Date of Submission: 12/17/2024

7.3 Laboratory Certification (if necessary)

The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory Teklab, Inc.

[signature] Date: 2/26/24

Signature of Laboratory Responsible Officer

Mailing Address of Laboratory

Address 5445 Horseshoe Lake Road

City Collinsville

State IL Zip Code 62234

Aaron Renner, Project Manager
Name and Title of Laboratory Responsible Officer

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December 17, 2024

Mr. Joshua Rhoades, PE
Manager, Permit Section
Illinois Environmental Protection Agency
Division of Land Pollution Control
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62702

Former Public Works Yard Steam Enhanced Extraction System – Construction Completion Report
Roxana, Illinois
1191150002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R-CA-116, CA-117

Dear Mr. Rhoades:

AECOM Technical Services, Inc. (AECOM), on behalf of Equilon Enterprises LLC d/b/a Shell Oil Products US (Shell), in fulfillment of Phase III of the Corrective Measures Program, is submitting this enclosed Construction Completion Report.

A copy of this submittal is being sent separately directly to Dana Austin, Gary Ko, Takako Halteman, and Ali Al-Janabi with the IEPA.

If you have any questions please contact Buddy Bealer, Shell Senior Program Manager, at leroy.bealer@shell.com (484-632-7956), or Wendy Pennington, AECOM Project Manager at wendy.pennington@aecom.com (314-452-8929).

Sincerely,

AECOM, on behalf of Shell Oil Products US

Samuel Fisher, CHMM
Environmental Scientist

Brett Howell, PG
Geologist

Wendy Pennington, PE
Project Manager

Enclosures: RCRA Corrective Action Certification Form
Construction Completion Report

cc: Buddy Bealer, Shell
Mr. Joshua Rhoades, IEPA, Springfield
Dana Austin, IEPA, Springfield
Gary Ko, IEPA, Springfield
Takako Halteman, IEPA, Springfield
Ali Al-Janabi, IEPA, Collinsville
Ryan Mohr, Fox Smith LLC
Ms. Megan Lipscomb, Phillips 66
Repositories – Roxana Public Library, website
Project File

AECOM

Former Public Works Yard Steam Enhanced Extraction System

Construction Completion Report

Roxana, IL

Prepared for:
Equilon Enterprises LLC dba Shell Oil Products US
Roxana, IL

Project numbers: 60697537 and 60721927

December 2024

Delivering a better world

Quality information

Prepared by	Checked by	Verified by	Approved by
Samuel Fisher, CHMM Environmental Scientist	Brett Howell, P.G. Geologist	David Macone, P.E. Lead Verifier	Wendy Pennington, P.E. Project Manager

Revision History

Revision	Revision date	Details	Authorized	Name	Position

Distribution List

# Hard Copies	PDF Required	Association / Company Name
1 – original	No	Mr. Joshua Rhoades IEPA, Springfield
None	Yes	Ms. Dana Austin IEPA, Springfield
None	Yes	Mr. Gary Ko IEPA, Springfield
None	Yes	Ms. Takako Halteman IEPA, Springfield
None	Yes	Mr. Ali Al-Janabi IEPA, Collinsville
None	Yes	Mr. Ryan Mohr Fox Smith LLC
None	Yes	Roxana Public Library, Website
None	Yes	Leroy (Buddy) Bealer Shell
None	Yes	Ms. Megan Lipscomb Phillips 66

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1. Introduction

1.1 Site Background

On behalf of Equilon Enterprises LLC, dba Shell Oil Products US (Shell), AECOM Technical Services, Inc. (AECOM) has prepared this Steam Enhanced Extraction (SEE) System Construction Completion Report (CCR), in accordance with the requirements of Phase III of the Illinois EPA Corrective Measures Program (CMP), and the IEPA letters dated August 22, 2022 and May 5, 2023. The SEE System was constructed for the remediation of subsurface impacts at the Village of Roxana Former Public Works Yard (PWY) located in Roxana, Illinois (in the Final Design Report & Construction Work Plan (FDRCWP), dated December 16, 2022, this area was referred to as the "Old Public Works Yard").

The PWY is bounded on the west and north by Illinois Route 111/Old Edwardsville Road and East Eighth Street, respectively (see location map **Figure 1**). There is a Norfolk Southern railroad corridor along the southern boundary and the Phillips 66 Wood River Refinery (WRR) forms the eastern boundary. Residential properties are directly north of the PWY. The property occupies approximately 2.4 acres, where approximately 0.4 acres is covered or obstructed by buildings and/or structures. Topographically, the western and southern portions of the PWY are at a lower elevation relative to the northeastern portion of the PWY. This relief across the PWY is approximately 13 feet. The PWY is owned by the Village of Roxana and is infrequently used by the Village for vehicle maintenance and storage. The PWY is also the location of the Village's former wastewater treatment plant (WWTP). In-ground concrete tanks associated with the WWTP continue to be used to help manage stormwater overflow in the Village. Most of the PWY is enclosed by a chain link fence.

Shell has conducted several subsurface investigations at the PWY (URS, 2007). Quarterly groundwater monitoring began in 2010. These investigations indicate dissolved-phase benzene concentrations ranging from 100 milligrams per liter (mg/L) to 1,900 mg/L[1]. In 2011, Shell constructed a soil vapor extraction (SVE) system compound on the adjoining WRR which includes a header-line connecting to six extraction wells at the PWY. There are currently six multilevel vapor monitoring probes (VMPs), seven multilevel steam vapor points (SVPs) and one groundwater monitoring well at the PWY (see **Figure 2**). The SVE system has operated at the PWY since late 2012. Soil vapor data for the PWY demonstrates the shallow and intermediate zones have been remediated. Deep (>25 feet below ground surface) soil gas concentrations have also decreased over time but remain in some areas with fluctuating groundwater levels and submerged impacts.

The WRR, adjacent to the eastern PWY boundary, currently maintains hydraulic control of groundwater in the area with a water production system consisting of 17 groundwater pumping wells which operate at a minimum daily average combined flow of 3,000 gallons per minute (gpm) (in accordance with RCRA Part B Post-Closure Hazardous Waste Permit B-43R [Part B Permit], Section IV)(IEPA, 2010). The WRR water production system provides water necessary for refinery operations. The water production from this system is modeled to control the flow of groundwater toward the interior of the WRR. The groundwater collected by the water production system is, as noted, is used by Phillips 66 (P66), the refinery operator, in various refining processes (e.g., as cooling water, as fire water, etc.). As part of this process, the groundwater collected by the water production system is treated to reduce dissolved phase constituents of concern.

IEPA requested that Shell evaluate additional remedial technologies to assist in further reducing the highest benzene concentrations in the PWY. In January 2019, in-situ thermal remediation (ISTR) was formally proposed as a potentially viable alternative; a predesign investigation was conducted to gather information to better assess its viability. Results from the June and July 2019 Predesign Investigation (AECOM, 2022a – Attachment A) found that the zone of highest impact in the PWY ranges in elevation from approximately 388 to 398 feet above mean sea level (amsl) which correlates to approximately 37 to 54 feet below ground surface (bgs) due to the sloping topography to the southwest at the PWY.

[1] Values are from Roxana Interim Groundwater Monitoring Reports – wells MW-7 and MW-8.

Additionally, detected benzene concentrations exceeding the soil saturation limit (580 mg/kg) [2] suggest the presence of residual non-aqueous phase liquid (NAPL).

On November 24, 2020, Buckeye Partners, L.P. (Buckeye) reported a gasoline pipeline release near the southeast corner of the PWY. The release is associated with IEPA Violation Notice L-2021-00084, LPC #1190905036 – Madison County. Impacts from the Buckeye release have been observed at nearby SVE well, VMP, and groundwater monitoring well locations.

1.2 Associated Regulatory Correspondence

- On January 31, 2022, AECOM, on behalf of Shell, submitted *the Public Works Yard Steam Enhanced Extraction Workplan* (AECOM, 2022a).
- On August 22, 2022, IEPA issued a response letter approving the workplan with conditions, thereby approving Phase I of the CMP (IEPA, 2022). AECOM, Shell, and McMillan-McGee met with IEPA on September 21, 2022, to discuss the conditions of the response letter. AECOM, on behalf of Shell, contracted McMillan-McGee Corporation (McMillan-McGee) to design, construct, and operate the SEE System for the PWY.
- On December 16, 2022, AECOM, on behalf of Shell, submitted the *Old Public Works Yard Steam Enhanced Extraction – Response to 8/22/2022 Letter and Final Design Report & Construction Work Plan* (AECOM, 2022b). The FDRCWP contained responses to the IEPA's 8/22/2022 letter, as well as items required in Phase II of the IEPA Corrective Measures Program.
- On January 30, 2023, AECOM, on behalf of Shell, submitted *Additional Information to PWY SEE Final Design Report & Construction Work Plan* (AECOM 2023a).
- A letter was issued by the IEPA on May 5, 2023, approving the FDRCWP with monitoring and reporting conditions, thereby approving Phase II of the CMP (IEPA, 2023).
- On August 3, 2023, AECOM, on behalf of Shell, submitted a *Former Public Works Yard Steam Enhanced Extraction - Response to 5/5/2023 IEPA Letter* (AECOM, 2023b).
- On September 22, 2023, AECOM, on behalf of Shell, submitted the *Additional Information to PWY SEE Final Design Report & Construction Work Plan (Area C),* as required by the IEPA's 5/5/2023 letter (AECOM, 2023c).
- On November 29, 2023, AECOM, on behalf of Shell, submitted the *Additional Information to the FPWY SEE FDRCWP – SEE System Startup Plan* (AECOM, 2023d).
- A letter was issued by the IEPA on January 26, 2024, approving with conditions and modifications the SEE-related submittals dated 8/3/2023, 9/22/2023 and 11/29/2023 (IEPA, 2024a).
- On February 23, 2024 AECOM, on behalf of Shell, submitted a *Former Public Works Yard Steam Enhanced Extraction - Response to 1/26/2024 IEPA Letter* (AECOM, 2024a).
- On March 4, 2024 AECOM, on behalf of Shell, submitted a *Former Public Works Yard Steam Enhanced Extraction – Pre-SEE Additional Sampling Results* (AECOM, 2024b).
- A letter was issued by IEPA on April 22, 2024, approving with conditions and modifications the SEE-related submittals dated 2/23/2024 and 3/4/2024 (IEPA, 2024b).

1.3 Purpose

The purpose of the SEE System is to target volatile organic compounds (VOCs) sorbed to saturated soils, including VOCs as NAPL. This sorbed residual material in the saturated zone feeds dissolved phase impacts in groundwater. The SEE System is intended to remediate this residual VOC material. Treatment of captured dissolved phase constituents of concern will occur during SEE operation. After SEE operation is completed, remaining dissolved phase

[2] Value from Title 35 of the Illinois Administrative Code, Part 742 (TACO), Appendix A, Table A (IEPA, 2013)

impacts will continue to be addressed by the WRR groundwater control system (in accordance with RCRA Part B Post-Closure Hazardous Waste Permit B-43R [Part B Permit], Section IV)(IEPA, 2010), and natural attenuation processes.

2. Technical Specifications

The plans, technical specifications and drawings used for construction/installation of the SEE System were provided to the IEPA as part of the FDRCWP dated December 16, 2022 (AECOM, 2022b), Additional Information to FDRCWP dated January 30, 2023 (AECOM, 2023a), and Additional Information to FDRCWP (Area C) dated September 22, 2023 (AECOM, 2023c).

2.1 Target Treatment Zones

The Site is divided into three adjacent target treatment zones (TTZs): Areas A, B and C. The Area A heated area is approximately 28,271 square feet (ft^2) with a treatment interval between 397 and 378 ft amsl; Area B is approximately 15,745 ft^2 with a treatment interval between 395 and 389 ft amsl; Area C is approximately 2,571ft^2 with a vertical treatment interval between 396 and 368 ft amsl. The subsurface treatment volume of the three TTZs combined is approximately 26,000 cubic yards (CY), given variabilities in the subsurface lithology. The heated area is defined as the area that extends 3 ft beyond the outer perimeter steam injection well locations. The treatment area is defined as any zone within the outer perimeter steam injection wells that is within the defined treatment interval for TTZ Area A, B and C. **EQL-02** depicts the lateral extent of soil zones where benzene concentration is >580 mg/kg.

2.2 Steam Injection Wells

A total of 84 steam injection wells were installed throughout the treatment volume. Area A has 48 steam injection wells where 9 of those wells are installed at an angle underneath Building B and the storm water basins. Area B has 26 steam injection wells, where 4 of those wells are installed at an angle to accommodate concrete debris discovered in the subsurface and a minimum 10-ft drilling offset from overhead powerlines. Area C has 10 steam injection wells where 7 of those wells will extend to the bottom of the treatment interval and 3 of those wells will be shallow steam injection wells, to ensure heating of the full vertical interval. Steam injection wells are named "SI-###" – for example, SI-AB4.

The steam injection wells each consist of a 2-inch diameter; 0.010 inch slotted 304 stainless steel (SS) screen. The standard screened interval is from 54 to 57 ft bgs in Area A and B. The deep screened interval in Area C is 66 to 69 ft bgs, and the shallow screened interval in Area C is 52 to 55 ft bgs. A filter pack consisting of graded sand (20/40 silica sand or equivalent) was installed in the annular space around the well screen. The boring plug was completed with a grout (no bentonite) and fine sand seal to surface. Each well was completed with an adapter and wellhead and piped to the steam boiler. Each wellhead has a temperature gauge, orifice plate meter, a low- and high-pressure gauge, and a sample port/relief valve. See **Appendix A, WFL-01** for the well field layout. Construction details for vertical steam injection wells in Area A and Area B are depicted in **WCD-01 and WCD-02**, respectively. Construction details for angled steam injection wells in Area A and Area B are depicted in **WCD-03**. **WCD-04** depicts construction details for steam injection wells in Area C. For well head details see **WHD-02**. Boring logs for steam injections wells are included in **Appendix B**.

2.3 Multiphase Extraction Wells

A total of 40 MPE wells were installed at the Site, complete with compressed air assisted vacuum-lift groundwater recovery pumps, placed throughout the treatment volume. Area A has 18 MPE wells where 1 of those wells is installed at an angle underneath Building B. Area B has 18 MPE wells where 6 of those wells are installed at an angle underneath Building D and to accommodate concrete debris discovered in the subsurface. Area C has 4 MPE wells where 1 of those wells is installed at an angle to reach beneath the storm water basins. MPE wells are named "X-###" – for example, X-BG2.

MPE extraction wells were installed in the interior of the treatment areas to maintain an inward flow, away from the perimeter. They are located primarily in the center of steam injection well triangle arrays to optimize heat transfer through the heated zone by drawing vapor and liquid away from the thermally energized zones to colder areas between the steam injection wells and underneath the buildings.

The MPE well screens are each 4 inch in diameter and consist of a continuous wire wrap 0.010-inch slotted 304L SS screen with a 2 ft sump at the bottom of each well. Above the screen interval there is a carbon steel riser, the top of each is completed with a 4 inch, as appropriate, male National Pipe Thread (mNPT) fitting. A filter pack consisting of 20/40 silica sand (or equivalent) was installed in the annular space around each MPE well screen. The borings were finished to surface with neat Type I/II cement grout (no bentonite). Each MPE well was completed with a wellhead, which was connected, via Parker series 7373T Blue Thunder corrugated chemical suction hose, to a conveyance piping network leading to the treatment system. The MPE wells are each equipped with a 1/2 inch inside diameter (ID) polytetrafluoroethene (PTFE) downhole compressed liquid pump recovery line. The compressed air line is a 1/4-inch outer diameter PTFE tube. Vacuum blowers B-107A/B will apply vacuum to the MPE wellhead in the above ground treatment system. Each MPE wellhead is equipped with a temperature gauge, a vacuum gauge, and a sample port/bleeder valve. Detailed wellhead and pump design drawings are presented in **Appendix A, WHD-01**. MPE well layout can be found in **WFL-01**. Construction details for vertical MPE wells in Area A and Area B are depicted in **WCD-01 and WCD-02**, respectively. Construction details for angled MPE wells in Area A and Area B are depicted in **WCD-03**. **WCD-04** depicts construction details for MPE wells in Area C. Boring logs for MPE wells are included in **Appendix B**.

2.4 Temperature Sensor Wells

A total of 16 digiTAM™ temperature sensor wells were installed to monitor subsurface temperatures within the treatment volume. These electronic sensors use the three-wire communications protocol and are rated for 125°C. The digiTAM™ wells have sensors vertically spaced at approximately 3 ft intervals. Each sensor string in Area A will contain 9 sensors, each in Area B will contain 5 sensors, and each in Area C will contain 12 sensors, for a total of 127 individual temperature monitoring points at the Site. Area A has 10 sensor wells. Area B has 5 sensor wells where 2 of those wells are installed at an angle underneath Building B. Area C has 1 sensor well. Sensors in Area A are be placed at 36 ft below ground surface (bgs), 39 ft bgs, 42 ft bgs, 45 ft bgs, 48 ft bgs, 51 ft bgs, 54 ft bgs, 57 ft bgs, and 60 ft bgs. Sensors in Area B are placed at 48 ft bgs, 51 ft bgs, 54 ft bgs, 57 ft bgs, and 60 ft bgs. Sensors in Area C are placed at 38 ft bgs, 41 ft bgs, 44 ft bgs, 47 ft bgs, 50 ft bgs, 53 ft bgs, 56 ft bgs, 59 ft bgs, 62 ft bgs, 65 ft bgs, 68 ft bgs, and 71 ft bgs. Sensor placement is designed to provide temperature data both vertically and horizontally throughout the target treatment volume in Areas A, B and C. Temperature sensor wells are named “T-###” – for example, T-CB1.

Temperature sensors are each housed in a watertight 1.5-inch carbon steel casing with coated threads for a water-tight seal. The digiTAM™ sensors record temperature at their respective depths. Neat Type I/II cement grout (no bentonite) was used to fill the annular space around the carbon steel casings to the surface. An ethernet cable is connected to each sensor string and runs to one of three remote temperature relay/monitoring boxes for real-time temperature monitoring, which serves daily system optimization. The temperature sensors are located as shown in **Appendix A, WFL-01**. Construction details for vertical temperature wells in Area A and Area B are depicted in **WCD-01 and WCD-02**, respectively. Construction details for angled temperature wells in Area A and Area B are depicted in **WCD-03**. **WCD-04** depicts construction details for temperature wells in Area C. Wellhead details are presented in the Well Head Diagram drawing **WHD-01**. Boring logs for temperature sensor wells are included in **Appendix B**.

2.5 Steam Piping

Steam injection piping was installed and connected to the steam well metering well heads and the steam boiler. The lateral connection for each steam well head to the main conveyance piping is 1-inch in diameter steam hose. Each connection point of the main header has a 1-inch ball valve to adjust the flow rate and isolate the well from the steam system when necessary. The main header piping for the extraction system has a 2-inch to 3-inch diameter schedule 40 carbon steel pipe that runs to the steam boiler in the equipment staging area.

The steam piping system was designed and constructed to supply each steam Injection well at a maximum flow rate of 180 lbs/hr (10,000 lbs/hr total system capacity) at no more than 150 PSI, regulated down to 10 to 30 PSI down hole.

The steam piping is insulated with 1-inch thickness fiberglass insulation and is fitted with drip leg and steam trap assemblies. A layout of the steam piping can be found in **Appendix A, PIL-01 and SPD-01**. Details for the drip leg and steam trap assemblies can be found in **SPD-02**. Steam piping sizing is included with equipment cut sheets in **Appendix C**.

2.6 Extraction Piping

Extraction system piping was installed and connected to the extraction wellheads. The lateral connection for each extraction wellhead above surface to the header is 1.5 in diameter high temperature vacuum hose. Each connection point of the main header has a 1.5-inch ball valve to adjust the vapor flow rate and isolate the well from the extraction system when necessary. The main header piping for the extraction system has a 4-to-8-inch diameter schedule 40/20 carbon steel pipe that runs to the treatment system. Lateral piping throughout the well field consists of 2-to-4-inch schedule 40/20 carbon steel pipe and was laid out in a fashion to reduce the length of pipe runs. A 1-inch flex hose runs under the multiphase piping to convey compressed air for the pneumatic pump assembly.

Air lines for the pump assemblies are supplied by a dry rotary fan air compressor (oil-free) in the treatment system. An air regulator was placed in the field to manage well field air pressure. Extraction system piping is sloped at a slight grade toward the treatment system for gravity draining. In Area A the extraction system piping is sloped at a slight grade towards the pump station for gravity draining. The wellheads are connected to the extraction header with hoses using cam-lock fittings. The extraction header piping rests on pipe stands.

A layout of the extraction piping can be found in **Appendix A, PIL-01** and **EPD-01**.

2.7 Steam Injection System

The steam injection system is fed by a natural gas steam boiler capable of producing 13,800 lbs/hr of steam at 150 pounds per square inch (PSI). The unit is oversized for the designed injection rate of 11,600 lbs/hr. The boiler is contained in a stand-alone inclement weather 48 ft trailer. See **Appendix C** for a cut sheet of the steam boiler unit. The location of the steam boiler is shown on **Appendix A, EQL-01** and **EQL-02**. The steam piping layout is shown on **SPD-01**. The steam injection system is equipped with eight drip leg and steam trap assemblies, shown in **SPD-02**. All sections of 2-inch and 3-inch steam headers are insulated with 1-inch thick Owens Corning SSL II with ASJ Max Fiberglas™ pipe insulation jackets to improve energy efficiency and site safety, as shown in **SPD-01**.

2.8 Extraction System

Pneumatic groundwater recovery pump assemblies are being utilized for the extraction of groundwater. The treatment system was designed and constructed to accommodate a peak liquid extraction rate of approximately 50 gallons per minute (gpm), with a normal extraction rate of 22 gpm. The extraction and treatment system captures and separates moderate amounts of free-phase product through use of the pumps and a phase separator. An extraction rate roughly two times greater than that of cold-water equivalent steam injection will be maintained throughout the project to ensure inward hydraulic gradients within the TTZs. Extraction rates at individual MPE wells are adjustable and may vary over the course of treatment.

An air compressor supplies air to each pump at sufficient pressure to overcome the hydrostatic confining forces of the water column at the bottom of the extraction line. Liquid extraction from the MPE wells is controlled through timer solenoids and isolation ball valves in the well field. Multiple extraction wells are controlled by a given compressed air solenoid valve. All MPE wells are constructed of 4-inch steel casings to accommodate this equipment.

The extraction system utilizes two in-line rotary-lobe blowers (B-220A and B-220B in **Appendix A, P&ID-01**) to provide the driving force for vapor extraction and groundwater/soil vapor conveyance through the piping network to the treatment system. The extraction piping layout is shown on **PIL-01** and **EPD-01**. These blowers are capable of providing both high-flow, low vacuum, and low-flow, high vacuum conditions using suitable flow control valves and variable frequency drives. The vapor recovery line for vapor extraction piping is connected to the primary liquid/vapor knockout tanks and heat exchangers to capture entrained liquids and condensate prior to the connection to the vapor treatment side of the treatment system.

2.9 Treatment System

The treatment system processes two flow streams; (1) vapors and entrained liquids; and (2) groundwater. A complete process visual presentation and equipment detail of the treatment system can be found in the process & instrumentation

diagrams **P&ID-01** and **P&ID-02** in **Appendix A**. The ancillary energy, used for the treatment system and other electrical facilities, is estimated at 916 MWh.

Two in-line blowers (B-220A and B-220B) are used to extract volatilized vapors and liquid from the MPE wells. Extracted liquids and vapors are piped back to the treatment system via a common header and first pass through a 200-gallon silt/liquid/vapor knockout tank (tank KO-100) to separate the liquids (i.e. condensate) and entrained sediments from the vapor stream. Vapors then pass through a shell & tube heat exchanger (HE-120) cooled by cooling tower (CT-130), to reduce the process steam temperature, and then a liquid-vapor separator (KO-140) to extract additional condensate formed due to cooling in the heat exchanger. The vapor stream is further cooled as it passes through a second shell & tube heat exchanger (HE-160) using a 50% propylene glycol/50% water coolant, which is chilled using a chiller (CH-170), and then a liquid-vapor separator (KO-180) to extract additional condensate formed due to chilling in the heat exchanger. The total vapor recovery flow is anticipated to range between 964 and 2,063 standard cubic ft per minute (scfm) depending on the steam injection rate to the formation. This corresponds to 24 to 52 scfm per extraction well.

Following liquid removal, vapors are drawn through the two vacuum blowers (B-220A and 220B) which deliver approximately 1,030 scfm under a vacuum of 12 inHg. The vapor stream passes through a silencer (S-230) and then a fin fan heat exchanger (HE-240) to counteract the temperature increase from the blowers. The vapor stream is then tied into the regenerative thermal oxidizer (RTO). Should the RTO experience an upset condition, vapors will be automatically redirected to four-2,500-lb sacrificial vapor granular activated carbon vessels (VGACs)(VGAC-270, VGAC-275, VGAC-280, and VGAC-285). Vapors generated during the air stripping stage (part of the liquid treatment train) are tied into the vapor stream following HE-240, prior to vapors being directed to the RTO for destruction. In the event of a power disruption to the SEE System, steam injection will automatically shut down, but vapor extraction will continue. A backup generator will provide power for vapor extraction and direct extracted vapor to the VGACs in the event of a power disruption (see generator cut sheet in **Appendix C**). SEE system air emissions limits are established under Federally Enforced State Operating Permit (FESOP) No. 12040025.

Extracted groundwater from the MPE wells is separated in KO-100 and pumped via P-110 to oil-water phase separator (OWS-400). Prior to OWS-400, condensate from KO-140, KO-180, and KO-250 is pumped via P-150, P-190, and P-260, respectively, to join with liquid being pumped by P-110. Any accumulated light NAPL (LNAPL) will be drained into a 250-gallon tank (T2-410).

Liquids and condensate from the phase separator are pumped through one air stripper, AS-440 via P-420. Vapor discharge from the air stripper is passed to KO-250 and finally to the RTO for destruction. The process liquid line passes through three bag filter sets (BF-460A/B/C and BF-470A/B/C) and a shell & tube heat exchanger (HE 480) cooled by a cooling tower (CT-490). The bag filter sets were designed so that the full process flow can go through one bag filter housing line while the other is being changed.

Liquid discharge from the bag filters is sent to two 2,000 lb liquid-phase activated carbon treatment vessels (LGAC-500 and LGAC- 510) operated in series. The treated water is then pumped into a pair of 2,500 gal-gallon equalization tanks (T-520 and T-525), from which the water is then discharged or used for backwashing the LGAC units.

Combined treated water and treatment equipment discharge is discharged to an onsite public owned treatment works (POTW) discharge. Treated water discharge to the sewer is estimated to be at a rate of up to 50 gpm. Water Pollution Control Permit No. 2023-68012 is the discharge permit for SEE system treated wastewater, and requires that benzene concentrations in discharged water not exceed 0.002 mg/L. If it is determined that the treated water requires further treatment prior to being discharged, water can be recirculated through the water treatment system until it is confirmed to meet permit requirements.

2.10 Treatment Flows and Processes

The SEE System was designed and constructed to accommodate a maximum vapor system flow of approximately 2,060 SCFM, and a maximum extracted groundwater flow of approximately 50 GPM. The main rotary lobe blowers (B-220A/B) provide the driving force behind the MPE system. Each blower is capable of 2,000 SCFM at a vacuum of 12 inHg. This extraction rate creates and maintains inward pressure gradients in the subsurface, assuring capture of vapors generated. The back-up VGAC vessels are sized to allow approximately 4 days' operational time at peak mass removal rates before changeout.

Most of the dissolved constituents of concern in the extracted groundwater is removed by the air stripper prior to entering the LGAC units, which are used to further reduce any remaining constituents of concern and to polish the liquid stream. The LGAC vessels were sized for the instantaneous process flow capacity.

All buildings and tanks have secondary containment with leak detectors (shown on **P&ID-01** and **P&ID-02** in **Appendix A**). Tanks and separators have sensors for flow control and to detect overflow conditions. The sensor set points for treatment system tanks are:

- low: shuts off the discharge pump
- high: activates the discharge pump
- high-high: shuts off the groundwater recovery while maintaining a minimal vacuum level for pneumatic control ("Yellow Alarm")
- high-high-high: shuts off groundwater recovery and all vacuum recovery ("Red Alarm")

Tanks containing VOCs or untreated water are held under vacuum to control fugitive emissions. A line from the primary knockout tank (KO-100) is connected to treatment tanks through a vacuum regulator and vacuum relief valve, to prevent VOC vapors from escaping. Tanks also have individual vacuum relief valves as a safety precaution. Additionally, valves, flanges, and pipe joints are monitored periodically via use of a handheld photo-ionization detector (PID) during routine inspections to monitor for fugitive VOC emissions.

2.11 Utility Connections

2.11.1 Electrical

Power is supplied by a three-phase service. One transformer feeds the power distribution panel (PDP), which serves as the main disconnect for the treatment area. The PDP unit is located in the electrical equipment area, shown on **Appendix A, EQL-01 and EQL-02**. A detailed description of the electrical specifications is included in **ESL-01**. See **Appendix C** for the PDP cut sheet.

2.11.2 Water

A new 2-inch water supply line was tapped into the existing main that trends east-west along Eighth Street. Water is supplied to the treatment system by a newly installed hydrant located at the northeast corner of the treatment system compound. Installation of the new water line and hydrant occurred between September 21 and October 3, 2023.

2.11.3 Natural Gas

The natural gas supply for the treatment system is tied into a main line that trends east-west along Eighth Street. A newly constructed natural gas meter was installed within the bounds of the PWY on the east side of the former wastewater treatment office building (formerly 143 E. Eighth Street). Installation of the natural gas meter occurred on January 31, 2024.

2.11.4 Telecommunications

The telecommunications system is comprised of a local area network (LAN) in the field for real-time data communications. High-speed internet service is connected to the SEE system for off-site data transfer and remote control.

2.12 Steam Vapor Monitoring Points

A soil vapor monitoring network was installed along the PWY northern boundary and on Eighth Street. Fourteen SVPs (steam vapor monitoring points[3]) were installed to allow for monitoring of potential vapor resulting from SEE operation.

[3] Steam vapor monitoring points (SVPs) are constructed identically to VMPs, however their purpose for monitoring is specific to operation of SEE.

The SVP network can be seen in **Figure 2**. SVPs are divided into two rows. SVP-1 through SVP-7 are referred to as the “primary row” SVPs, while SVP-8 through SVP-14 are referred to as the “secondary row” SVPs.

The primary row of SVPs is located within the SEE System’s radius of capture (ROC), while the secondary row of SVPs is located at, or beyond, the maximum ROC of the SEE System. **Figure 3** depicts ROC of the SEE System. SVPs are each screened at three intervals (shallow, intermediate, and deep), with the shallow, intermediate and deep probes screened at 10, 20 and 30 feet bgs, respectively. Boring logs and construction information for SVPs are included in **Appendix B**.

2.13 Air and Water Permits

The Construction Air Permit for the SEE System No. 22020023 and the revised Federally Enforced State Operating Permit (FESOP) No. 12040025 were both issued May 4, 2022. Treated wastewater from SEE operations will be discharged to the Village of Roxana publicly owned treatment works (POTW) according to Water Pollution Control Permit No. 2023-68012, which was issued April 4, 2023. SEE system air and water permits are included in **Appendix D**.

3. Deviations from Final Design

The property where the Site is located has undergone numerous changes over the course of its history. The Site was previously used as a water treatment facility by the Village of Roxana, and has had buildings demolished and buried in place. The Site is also adjacent to an active petroleum refinery as well as an active railroad corridor. Given the history of the property on which the Site is located, the investigation area has numerous underground obstructions at and below ground level (e.g., pipelines and utilities), and above ground utilities.

Additionally, IEPA provided a response with comments to the FDRCWP in a letter dated May 5, 2023. Comments within the May 5, 2023 letter requested that Shell collect additional samples within the south-central portion of the Site to assess if additional treatment areas were needed. After evaluating results from additional sampling of the south-central portion of the site, it was determined that an additional treatment area (Area C) was warranted. The above items each contributed to design modifications during construction and installation activities.

3.1 Well Field Layout

The design in the FDRCWP consisted of two treatment areas, Area A and Area B. These two treatment areas were planned to have a total of 81 steam injection wells (48 in Area A; 33 in Area B), 36 multiphase extraction wells (17 in Area A; 19 in Area B), and 16 temperature sensor wells (10 in Area A; six in Area B). However, due to the addition of an additional treatment area (Area C), overhead and underground utilities, and access limitations, the final well field design consists of 84 steam injection wells (48 in Area A; 26 in Area B; 10 in Area C) 40 multiphase extraction wells (18 in Area A; 18 in Area B; four in Area C), and 16 temperature sensor wells (10 in Area A; five in Area B; one in Area C).

The FDRCWP indicated that there would be a total of 12 angled steam injection wells (four in Area A; eight in Area B), seven angled multiphase extraction wells (one in Area; six in Area B), and two angled temperature monitoring wells (one in Area A; one in Area B). Given the aboveground and underground obstructions, identified during utility clearance activities, the total number of angled borings was altered to the following: 12 angled steam injection wells (nine in Area A; three in Area B), eight angled multiphase extraction wells (one in Area A; six in Area B; one in Area C), and two angled temperature wells (two in Area B).

Please refer to **Appendix A, WFL-01** for the final well field layout.

3.2 Target Treatment Zones

Given the alterations to the well field layout mentioned above, the areas of thermal influence for both Area A and Area B have been altered from what was presented in the FDRCWP. The thermal influence area for Area A was increased by approximately 211 ft^2, while the thermal influence for Area B decreased by approximately 4,399 ft^2. The approximate area of thermal influence for Area A is now 28,271 ft^2 while Area B is approximately 15,745 ft^2. The approximate area of thermal influence for Area C is 2,571 ft^2. The treatment interval for Area C is between 399 and 365 ft amsl. There are two injection intervals within Area C (52-55 ft bgs and 65-68 ft bgs) which accounts for the larger vertical extent of thermal treatment. The extraction interval in Area C is between 367and 417 ft amsl.

Please refer to **Appendix A, WFL-01** for final target treatment zone layout.

3.3 Extraction Piping

The FDRCWP stated the main header piping for the extraction system would consist of four-to-eight-inch diameter schedule 40/20 carbon steel pipe, and lateral piping throughout the well field would consist of two-to-four-inch schedule 40/20 carbon steel pipe. Final construction of the of main header piping for the extraction system consists of six- and eight-inch diameter schedule 40/20 carbon steel pipe, and lateral piping throughout the well field consists of four-inch schedule 40/20 carbon steel pipe. The smaller variations in diameter of final constructed extraction piping allow for fewer joints and reduced disruption of flow.

3.4 Treatment System

The FDRCWP stated that there would be two-5,000-lb sacrificial vapor granular activated carbon vessels (VGAC-270 & VGAC-280). Instead of two-5,000-lb VGACs, four-2,500-lb VGACs (VGAC-270, VGAC-275, VGAC-280, and VGAC-285) were installed during final construction of the treatment system. Additionally, the FDRCWP stated extracted liquids would pass through three bag filter sets (BF-460A/B/C and BF-470A/B/C), while final construction of the treatment system has two bag filter sets (BF-430A/B and BF-431A/B).

4. Description of Construction Activities

4.1 Phase 1

AECOM contracted Roberts Environmental Drilling Inc. (REDI) to install 14 steam vapor monitoring ports (SVPs) along the 8th street corridor at the northern edge of the PWY in Roxana, IL. The installation of the 14 SVPs were completed between December 5, 2022 and January 12, 2023. SVPs are divided into two rows, a primary and secondary row. The primary row (SVP-01 through SVP-07) is located within the bounds of the PWY inside the fence, and the secondary row (SVP-08 through SVP-14) is located along the roadway of 8th Street. Each SVP contains three nested screened intervals (10-10.5 ft bgs; 20-20.5 ft bgs, and 30-30.5 ft bgs). Soil samples were collected from each SVP screened interval. Upon completion, each SVP was developed in accordance with the then most current soil vapor sampling SOP, and then vapor samples from each interval were collected for analysis. See additional discussion of soil and soil vapor samples in **Section 5.2 and 5.3**, respectively. Boring and construction logs for all SVPs are included in **Appendix B**.

In conjunction with the installation of the SVPs, REDI was also contracted to perform groundwater profiling at three locations, soil borings at two locations, and to abandon four groundwater and vapor locations within the PWY.

Groundwater profiling occurred at three locations, GWP-101 on December 8, 2022; SVP-07 on December 15, 2022; and SVP-09 on January 6, 2023. All three profiling locations were sampled at 10-foot intervals once groundwater was encountered, and recharge was sufficient enough to sample. Samples for GWP-101 were collected between 45-feet and 85-feet bgs, while samples from SVP-07 and SVP-09 were collected between 50-feet bgs and 90-feet bgs. Samples were analyzed for VOCs, SVOCs, and PAHs. See additional discussion of groundwater samples in **Section 5.1**.

Soil samples were collected from soil borings near the former wastewater treatment basins, on both the north (SB-101 and SB-101A) and south (SB-102) side of the basins. Due to equipment difficulties encountered while drilling to depth at SB-101, and second boring, SB-101A, was drilled in order to achieve total depth. A total of four samples were collected from SB-101 and SB-101A, collectively, while five samples were collected from SB-102. Final borehole depths ranged from 67 to 72 feet bgs. Upon completion, borings were grouted with Type I cement grout placed via tremie pipe (SOP-12 *Grouting Procedures*). See additional discussion of soil samples in **Section 5.2.** Boring logs are included in **Appendix B**.

Some wells in the PWY that were constructed of PVC were abandoned prior to SEE operation. MW-8, SVE-2, VMP-29, and VMP-30 were constructed of PVC. Their casings extended vertically into the thermal treatment zone and would have been thermally deformed if they remained in place during SEE operation. Wells that were abandoned prior to SEE operation are depicted in **Figure 2**. Well sealing forms are included in **Appendix E**.

Locations of SVP, groundwater profiling, and soil sampling locations are included in **Figure 4**.

4.2 Phase 2

Beginning in February of 2023, AECOM subcontractors began the drilling activities associated with the installation of Areas A and B. Bloodhound Underground was contracted to perform utility clearance activities in both Areas A and B, while HD Sonic was contracted to drill and install steam injection, multiphase extraction, and temperature monitoring wells. Utility clearance methods included air-knifing, hydro-excavation, and other hand clearing methods. Utility clearance activities were completed between February and May 2023. Drilling and well installations associated with Areas A and B were completed between February 14 and July 18, 2023. Prior to intrusive activities, Ground Penetrating Radar Systems (GPRS) was contracted to perform a private utility locate. This work was completed on February 7, 2023.

Soil samples from 28 of the 140 well installation borings were collected for laboratory analysis. Please refer to **Section 5.2** for additional information regarding soil analyses. Additionally, five borings were drilled in the south-central portion of the site at the request of the IEPA to further delineation efforts. These five borings were sampled for the above-mentioned suite of analyses, and additional sample information is relayed in **Section 5.2**.

The existing fencing along the bounds of the PWY was modified to accommodate the SEE well field layout. HEPACO and Collins and Hermann were contracted to perform the activities associated with fencing modifications. Fencing

modifications included extending the northern perimeter fence to the edge of the right-of-way along 8th street, removing existing interior fencing, and adding four new access gates. Fencing modifications were completed between April 3 and April 14, 2023.

HEPACO was contracted by AECOM to construct an equipment pad for the SEE treatment system components. HEPACO leveled the area with clean fill soil prior to installing a semi-permeable geofabric. Following installation of the geofabric, crushed stone (CA-6) was placed and leveled across an area of approximately 6,000 ft^2. The equipment pad was completed between May 30 and June 15, 2023.

4.3 Phase 3

Following the installation of Area A and Area B wells, AECOM subcontractor McMillan-McGee began construction of the aboveground system components in Area B and the treatment system compound. Area A aboveground construction was delayed at this stage to allow access to Area C (see discussion of Area C construction in **Section 4.5**). These aboveground system components included pipe rack, four-inch to eight-inch schedule 40/20 carbon steel extraction pipe, two-inch to three-inch schedule 40/20 carbon steel steam injection pipe, MPE well heads, steam injection well heads, and satellite control panels. Following successful installation of the steam injection piping, 1-inch-thick Owens Corning SSL II with ASJ Max Fiberglas™ pipe insulation jackets were installed on steam piping to improve energy efficiency and site safety. This initial phase of aboveground construction began in August 2023 in preparation for the installation of the SEE treatment system components.

After the initial round of aboveground construction, AECOM subcontractors began installation of the SEE treatment system compound. Treatment system components required precise placement as many connections were fabricated prior to delivery to the site. Given this, subcontractors prepared the equipment pad with support structures and string lines for proper placement. Equipment pad preparation was completed between September 11 and September 16, 2023. Upon completion of equipment pad preparation, Erlinger Crane Service Incorporated (Erlinger) was contracted to deliver and situate system components into position that could otherwise not be maneuvered without the use of crane. Erlinger completed this scope of work between September 18 and September 19, 2023 and September 29, 2023. Once crane related work was completed, subcontractors began installation of the remainder of treatment system components, including the HDPE effluent piping that would transfer extracted vapors from the SEE System to the existing RTO system.

The Village of Roxana water department contractors installed a new water supply line between September 22 and October 3, 2023. Initial construction was completed on September 28, 2023; however the flow rate was inadequate. Village contractors returned on October 3, 2023, to re-tap the newly installed line into the water main that runs underneath 8th street. Water flow rate was adequate after re-tapping.

On September 27, 2023, Industrial Boiler and Mechanical Company delivered and placed the steam boiler into place within the treatment system compound.

Sachs Electric was contracted to perform electrical work onsite, including the installation of the main meter box and connections to the pedestal mounted transformer, connections between individual treatment system components, and integration of a backup 20kW diesel generator. Sachs Electric completed these electrical connections between October 3, 2023 and January 3, 2024.

A signal transfer cable connecting the SEE System to the RTO system was installed by McMillan-McGee on October 3 and October 4, 2023. The signal cable will allow for communication of alarm conditions between the SEE System and RTO.

This phase of construction activities related to the treatment system equipment were completed by October 6, 2023.

4.4 Phase 4 – Fall 2023 Equipment Testing

Following the installation of treatment system components on the equipment pad, leak tests were performed. Equipment related to the liquid process stream was filled to capacity with potable water to check for leaks (i.e. equipment that contains or treats water or LNAPL). During the process of filling the system, the system was powered on, to ensure that water transfer pumps, floats, and electrical components were all operational. Upon successful

equipment testing, the potable water was drained into secondary containments to check for integrity and to ensure secondary containments would not leak. Equipment testing occurred on October 5 and October 6.

4.5 Phase 5 – Shakedown and Startup

Construction of the SEE well field continued to progress from October 2023 through February 2024. Steam injection and multiphase extraction wells were connected to aboveground header lines with flexible 1-inch steam hose and 1.5-inch high temperature vacuum hose, respectively. Steam injection and MPE wells heads, groundwater extraction pumps, compressed air lines, and steam return lines were installed according to specifications in **Appendix A**.

On October 26, 2023, Gross Mechanical was contracted to replace an existing valve along the Public Works RTO header near the West Fenceline within the Wood River Refinery. A new three-way valve was installed to integrate the SEE vapor stream with the RTO.

Bulldog Drilling was contracted to complete the drilling and well installations for Area C. Installation of the Area C wells was completed between October 23 and November 2, 2023. Boring and construction logs for Area C wells are included in **Appendix B**.

After the Area A, B, and C MPE wells were installed, and prior to sampling, they were developed in accordance with applicable SOPs. Well development forms are included as **Appendix F**. Following the installation of Area C, all newly installed MPE wells from Area A, B and C were sampled for groundwater. Further groundwater sample information is presented in **Section 5.1**.

Ameren Corporation (Ameren) was contacted as it is the natural gas and electric provider for the Site. During the installation of the Roxana SVE system (2011-2012) Ameren installed three transformers on a power pole at the southwest corner of 8th Street and Chaffer Avenue. A power drop from those existing transformers to a pedestal mount was completed by JF Electric on January 2 and January 3, 2024, on behalf of the Ameren. Prior to this connection being installed, Sachs and Badger Daylighting prepped the area by hydro-excavating a trench for the required underground conduit in November 2023.

In preparation for the construction of the SEE System, Ameren installed a new natural gas line on the property at the end of 2020. On January 31, 2024, Ameren installed the natural gas meter and regulators. Gross Mechanical was contracted to install conveyance piping from the natural gas meter to the steam boiler. Completion of the natural gas connection to the steam boiler occurred on March 13, 2024.

Throughout February and March 2024, the remaining aboveground hoses and pipes were installed connecting the various wells to the SEE system. The remaining well head assemblies were also finished in March 2024.

In April 2024, McMillan-McGee began system start up procedures; however, during the startup process it was observed that adequate vacuum was not maintained between the RTO and the SEE system, potentially due to certain piping-design details that constricted the high volume of vapor conveyance coming from the SEE system. After investigation, it was determined the SEE system vapor stream point of connection would be moved to a different point on the existing SVE system to address the vacuum concern. Between April 15 and April 17, 2024, AECOM and McMillan-McGee installed an 8-inch diameter line along the West Fenceline. The actual tie-in location to the existing SVE system is downstream of the SVE manual dilution valve, but upstream of the mixing box. On May 28, 2024 Gross Mechanical performed the piping modification that allowed for connection to the SVE system.

Following the piping modification work performed by Gross Mechanical, McMillan-McGee and AECOM installed the remainder of the 8-inch HDPE line, connecting existing SEE vapor conveyance piping to the RTO on June 11, 2024. Beginning June 12, 2024, the vapor/liquid extraction and treatment portions of the SEE system became operational. A representative from Industrial Boiler and Mechanical, the supplier of the onsite boiler unit, was onsite between June 14 and June 19, 2024 to perform maintenance and provide operational instructions to McMillan-McGee and AECOM personnel. Preliminary boiler and steam injection operations were successfully tested the afternoon of June 18, 2024, and were stopped the same day after performing the test.

During operation of the extraction and treatment system in mid-late June 2024, it was discovered that the air stripping process was causing iron and calcium in groundwater to build up in downstream liquid process equipment. This buildup caused system alarms and shutdowns at a high frequency (less than 36 hours of continuous system operation between

shutdowns) due to transfer pumps locking up and blockages in downstream liquid treatment equipment. To remedy this issue, a sequestering agent meant to keep iron and calcium in solution was identified by McMillan-McGee and was installed. The sequestering agent is introduced into the system at knockout tank KO-100. The sequestering agent was first introduced into the treatment system on July 12, 2024. Evaluation of the sequestering agent effectiveness found that calcification and iron oxide generation was diminished after injection began on July 12, 2024, reducing the need for frequent cleaning of liquid treatment equipment.

On July 17, 2024, the boiler was started and preliminary steam injection began. Injection rates during the shakedown period were approximately 25% of the designed rate due to water supply issues. The Village of Roxana water department was onsite July 24 and July 25, 2024 to investigate the cause of the 15 psi drop in water pressure that was observed downstream of the water main. It was found that the pressure drops were associated with the RPZ (reduced pressure zone) backflow preventor. To increase the pressure of the feed water into the boiler so that the desired injection rate could be achieved, on August 15, 2024 MC2 installed a booster pump immediately downstream of the onsite hydrant.

The steam boiler and vapor/liquid extraction systems were shut down on August 7, 2024 to check pipe fitting tightness throughout the system. While the system was shut down a number of other maintenance items were identified and performed, and troubleshooting was performed on various system components to optimize performance. On September 3, 2024 vapor extraction was restarted, and on September 11, 2024 groundwater extraction was restarted while the steam boiler remained offline.

From September 9 to September 18, 2024, two employees from RMC2 (treatment system designers) were onsite to make repairs and modifications to the existing liquid treatment equipment. Modifications were made to OWS-400; including modifying the lid to OWS-400 to improve the seal, modifying the NAPL skimmer inside of the OWS to mitigate water accumulation in the LNAPL storage AST, and increasing the size of the vapor removal line that applies vacuum to OWS-400. RMC2 also performed maintenance on the two vacuum blowers while onsite, which consisted of belt replacement and belt tensioning. Lastly, a booster blower was installed on September 14, 2024 to assist in vapor conveyance from the SEE system to the RTO. This booster blower was installed as a means to boost air flow through the air stripper, enhancing the effectiveness of the air stripper.

On September 20, 2024, a technician from Industrial Boiler was onsite to inspect and replace a union that was the cause of a steam leak inside of the boiler. During the week of September 23, 2024, McMillan-McGee subcontractors were onsite to optimize water booster pump. On September 27, 2024, the steam boiler became operational again, and steam injection at full capacity began.

Equipment QA/QC documentation are included in **Appendix G**. Construction photographs are included in **Appendix H**.

5. Pre-SEE Sampling Results

Groundwater, soil, and soil vapor samples were collected during installation/construction of the SEE System. Specific sample intervals were based on the 2019 Predesign Investigation whenever applicable, to allow for comparison. Pre-SEE samples were collected from December 5, 2022 to November 13, 2023. Pre-SEE sampling was performed in accordance with applicable site-specific Standard Operating Procedures (SOPs) that incorporate previous IEPA comments, conditions, and/or modifications. Current SOPs are provided to the IEPA as updates are made.

5.1 Pre-SEE Groundwater Samples

A total of 61 groundwater sample sets[4] were collected during Pre-SEE sampling. Groundwater profiling was performed at GWP-101 and in the borings for SVP-07 and SVP-09. These locations were the nearest borings to PD-06/PD-17[5], PD-03, and MW-25, respectively. Groundwater samples were also collected from each MPE well prior to SEE operation. Groundwater sample locations are depicted on **Figure 4**. Groundwater samples were analyzed for the following:

- VOCs via USEPA Method 8260B
- SVOCs via USEPA Method 8270D
- Polycyclic Aromatic Hydrocarbons (PAHs) via USEPA Method 8270D Low Level (LL)

The chemicals listed below were detected above the reporting limit (RL) in at least one groundwater sample. Chemicals that were not detected above the RL in any groundwater samples but were detected between the method detection limit (MDL) and RL in at least one groundwater sample, are also included and are indicated with "(<RL)". Chemicals in **bold font** exceeded residential screening criteria in at least one groundwater sample.

- **1,2,4-Trimethylbenzene**
- **1,2-Dichloroethane**
- **1,3,5-Trimethylbenzene**
- 1-Methylnaphthalene
- 2,4-Dimethylphenol
- 2-Butanone (<RL)
- **2-Methylnaphthalene**
- 3&4-Methylphenol (<RL)
- Acenaphthene
- Acenaphthylene
- Acetone
- Anthracene
- **Benzene**
- **Benzo(a)anthracene**
- **Benzo(a)pyrene**
- **Benzo(b)fluoranthene**
- Benzo(g-h-i)perylene (<RL)
- **Benzo(k)fluoranthene (<RL)**
- Benzoic acid
- Benzyl alcohol
- Butylbenzylphthalate (<RL)
- Carbon disulfide (<RL)
- **Carbon Tetrachloride (<RL)**
- **Chlorobenzene (<RL)**
- Chrysene
- Dibenzo(a-h)anthracene (<RL)
- Dibenzofuran (<RL)
- Diethylphthalate (<RL)
- Di-n-octylphthalate (<RL)
- **Ethylbenzene**
- Fluoranthene
- Fluorene
- m,p-Xylene
- Indene (<RL)
- Indeno(1,2,3,c,d)pyrene (<RL)
- Isopropylbenzene (Cumene)
- **Methyl Tert-butyl Ether**
- Naphthalene
- n-Propylbenzene
- o-Xylene
- **Pentachlorophenol (<RL)**
- Phenanthrene
- **Phenol**
- p-Isopropyltoluene
- Pyrene
- sec-Butylbenzene
- tert-Butylbenzene
- **Toluene**
- Xylenes, Total

[4] Total includes duplicate samples, but does not include trip blanks, equipment blanks, and matrix sp ke/matrix spike duplicates.
[5] "PD" locations were sampled during the 2019 Predesign Investigation (Attachment A of Public Works Yard Steam Enhanced Extraction Workplan dated January 30, 2022 [AECOM, 2022a])

A summary of groundwater analytical results is provided in **Table 1**. A summary of groundwater field parameters is provided in **Table 2**. Laboratory analytical reports and data validation reports for groundwater samples are retained in the project files. A summary of benzene groundwater analytical results is presented in **Figure 5**.

5.2 Pre-SEE Soil Samples

A total of 172 soil sample sets[6] were collected during Pre-SEE sampling. Soil sample locations are depicted on **Figure 4**.

Soil samples collected from December 5, 2022 to January 9, 2023 were analyzed for the following:

- VOCs via USEPA Method 8260B
- SVOCs via USEPA Method 8270D
- PAHs via USEPA Method 8270DLL
- Additionally, some soil samples were analyzed for Gasoline- and Diesel-Range Organics (GRO and DRO) via USEPA Method 8015B

Soil samples collected from February 20 to May 4, 2023 were analyzed for the following:

- VOCs via USEPA Method 8260B
- Additionally, some soil samples were analyzed for:
    - Total Petroleum Hydrocarbons (TPH) GRO via USEPA Method 8260B
    - TPH DRO via USEPA Method 8270C
    - TPH Oil-Range Organics (ORO) via USEPA Method 8270C
        - Prior to the May 5, 2023 IEPA letter, TPH ORO 8270C was used as a proxy for assessing for kerosene.

The IEPA letter dated May 5, 2023 included additional requirements for soil sample analyses. Soil samples collected after May 5, 2023 were analyzed for the following:

- VOCs via USEPA Method 8260B
- TPH GRO via USEPA Method 8260B
- TPH DRO via USEPA Method 8270C
- TPH via USEPA Method 8015B OA-2
    - Used as a proxy for kerosene. Method 8015B OA-2 does not analyze for a specific carbon range in the same manner as GRO or DRO. OA-2 is based on pattern recognition. Kerosene (fuel oil) and diesel fuel are difficult to distinguish using this method, and are generally difficult to distinguish regardless of analytical method, because the carbon ranges of kerosene (~C9-C16) and diesel fuel (~C9-C20) have significant overlap.

The chemicals listed below were detected above the RL in at least one soil sample. Chemicals that were not detected above the RL in any soil samples but were detected between the MDL and RL in at least one soil sample, are also included and are indicated with "(<RL)". Chemicals in **bold font** exceeded residential screening criteria in at least one soil sample.

- 1,2,4-Trimethylbenzene
- **1,2-Dichloroethane**
- 1,3,5-Trimethylbenzene
- 1-Methylnaphthalene
- 2-Butanone (MEK)
- 2-Chlorotoluene
- 2-Hexanone (<RL)
- 2-Methylnaphthalene
- **4-Chloroaniline**
- Acenaphthene
- Acenaphthylene
- **Acetone**
- Acrylonitrile
- Anthracene
- **Benzene**
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(g-h-i)perylene
- Benzo(k)fluoranthene
- Benzoic acid (<RL)
- Carbon disulfide
- Chlorobenzene
- Chloroform

[6] Total includes duplicate samples, but does not include trip blanks, equipment blanks, and matrix sp ke/matrix spike duplicates.

- Chloromethane
- Chrysene
- cis-1,2-Dichloroethene (<RL)
- Dibenzo(a-h)anthracene
- Di-n-butylphthalate (<RL)
- **Ethylbenzene**
- Fluoranthene
- Fluorene
- Indeno(1,2,3,c,d)pyrene
- Isopropylbenzene
- **m,p-Xylene**
- Methyl Tert-butyl Ether
- **Methylene chloride**
- **Naphthalene**
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- **Pentachlorophenol (<RL)**
- Phenanthrene
- Phenol
- p-Isopropyltoluene
- Pyrene
- sec-Butylbenzene
- Styrene
- tert-Butylbenzene
- **Toluene**
- **Xylenes, Total**

A summary of soil analytical results is provided in **Table 3**. Laboratory analytical reports and data validation reports for soil samples are retained in the project files. Summaries of soil benzene and soil TPH analytical results are presented in **Figures 6 and 7**, respectively.

5.3 Pre-SEE Soil Vapor Samples

A total of 47 soil vapor samples[7] were collected from SVP-01 through SVP-14. These sample results were included in the *Response to 5/5/2023 IEPA Letter* (AECOM, 2023b), and are also included here as **Tables 4 and 5.** These SVP results are considered the "baseline" to which later SVP samples will be compared as part of the Steam Extraction Vapor Monitoring Plan (AECOM, 2022b; AECOM 2023b). SVPs are each screened at three intervals, with the shallow, intermediate and deep probes screened at 10, 20 and 30 feet bgs, respectively. SVP locations are depicted on **Figure 2**. SVP samples were analyzed for the following:

- VOCs via Modified USEPA Total Organic-15 (TO-15) (including butane and isopentane) for soil vapor (see **Table 4)**
- Natural gases (defined for purposes of this report as oxygen, nitrogen, carbon monoxide, methane, carbon dioxide, ethane, and ethene) via Modified ASTM D-1946 + Helium for soil vapor (see **Table 4**)

Laboratory analytical reports and data validation reports for soil vapor samples are retained in the project files.

In addition to the above laboratory analyses, Tedlar© bag samples were co-collected with each canister sample, and were screened onsite by trained personnel using the following equipment:

- Landtec GEM-2000 or equivalent; used for measuring CH_4, lower explosive limit (LEL), CO_2, O_2
- Thermo Scientific TVA-2020 Vapor Analyzer - Photoionization Detector (PID) or equivalent
- Thermo Scientific TVA-2020 Vapor Analyzer - Flame Ionization Detector (FID) or equivalent; used for measuring total hydrocarbons (THC), CH_4, and non-methane hydrocarbons or petroleum hydrocarbons (PHC) (see **Table 5**)

Baseline PHC concentration in each Tedlar© bag sample collected at the SVPs was 0.0 ppmv.

5.4 Sample Handling and Laboratory Testing

5.4.1 Groundwater and Soil

Samples were collected in pre-preserved laboratory-supplied containers and labeled in the field. Sample information was recorded on a chain of custody (COC) form at the time of collection.

Upon collection and labeling, sample containers were immediately placed inside an iced cooler and packed in such a way as to help prevent breakage and maintain sample temperature within 0-6°C without freezing. Samples collected from December 5, 2022 to January 9, 2023 (when REDI was the driller onsite) were delivered via overnight courier,

[7] Total includes duplicate samples. Analysis of one of the duplicate samples (SVP-14-20-020223-DUP) was canceled because the canister was discovered to have a leak upon arrival at the laboratory.

under the proper COC documentation, to Eurofins Environment Testing America Southeast, LLC (EETA Southeast) in Pensacola, Florida for analysis. Samples collected after January 9, 2023 (when HD Sonic was the driller onsite) were transported by AECOM personnel on the same day as sample collection to Teklab, Inc. environmental laboratory in Collinsville, IL, which is 12 miles from the PWY site. The decision was made to use Teklab in order to achieve faster turnaround times, and to avoid potential delays associated with shipping samples across the country via overnight courier.

5.4.2 Soil Vapor

Sample Handling

Stainless-steel canisters were labeled with a sample ID, site name, sampler initials, sample date and time, the parameters that were to be analyzed, and pre- and post- vacuum readings. After collection, the samples were logged on a COC form and packaged in an UN-certified box to prevent damage during shipment. The samples were then delivered under the proper COC documentation to the laboratory.

Laboratory Testing

Eurofins Air Toxics, Inc. (Eurofins) of Folsom, California conducted the laboratory testing and the following test methods were utilized during this scope of work. AECOM worked with the laboratory to attain reporting limits for compounds that have screening criteria so that, to the extent possible, the reporting limits were less than the screening criteria. In some cases, this necessitated reporting results between the method detection limit (MDL) and reporting limit (RL). Although results reported in this range are "J"-flagged as estimated, these data may be beneficial in cases where analytes would otherwise be reported as non-detect at RLs above screening levels. The laboratory provided AECOM with a list of their “base” RL capability for target analytes. Sample RLs are a product of base RL, pressurization dilution factor, and analytical dilution factor. Thus, the sample RL will increase with increases in the dilution factor. Results that were reported below the RLs but above the MDL were “J”-flagged as estimated concentrations by the laboratory.

5.5 Data Quality Review and Data Management

Laboratory data were provided in electronic form, and analytical data were independently reviewed and qualified by AECOM. One hundred percent of the data were subjected to a data quality review. Evaluation of the data followed procedures outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2020). Trip blanks (TBs) and equipment blanks (EBs) were analyzed to evaluate for the existence and magnitude of any contamination resulting from field activities. Specific criteria reviewed included sample receipt condition and holding times, method blanks, surrogate spike recoveries, laboratory control samples, matrix spike samples, initial and continuing calibrations, internal standard area recoveries, results reported from dilutions, and field duplicate results. The laboratory assigned data qualifiers on the basis of their quality control or to indicate sample analysis information (e.g., dilutions). Data qualifiers were also added by AECOM chemists during their data quality review, as appropriate, and are included on the data tables.

Field data and documentation collected as part of this scope of work became part of the project file.

6. Conclusions

AECOM personnel provided daily oversight during the construction and installation of the SEE System to monitor, document, and assure construction met the intent of design specifications. Oversight activities included layout, documentation of installation, and general monitoring of the construction and installation of SEE wells and treatment equipment. Each subcontractor performed their respective portions of construction and installation activities. AECOM and Shell observe that the SEE System construction and installation activities were completed in general conformance with the design requirements described in the FDRCWP.

7. References

AECOM, 2020 (AECOM, 2020); Response to Condition 4.b in Attachment A and Condition V.D.3 of the 12/20/2019 IEPA Letter with Modified Permit. Prepared for Shell Oil Products US (Shell); dated October 12, 2020.

AECOM, 2022 (AECOM, 2022a); *Public Works Yard Steam Enhanced Extraction Workplan*. Prepared for Shell Oil Products US (Shell); dated January 31, 2022.

AECOM, 2022 (AECOM, 2022b); *Old Public Works Yard Steam Enhanced Extraction – Response to 8/22/2022 Letter and Final Design Report & Construction Work Plan*. Prepared for Shell Oil Products US (Shell); dated December 16, 2022.

AECOM, 2023 (AECOM, 2023a); *Additional Information to PWY SEE Final Design Report & Construction Work Plan*. Prepared for Shell Oil Products US (Shell); dated January 30, 2023.

AECOM, 2023; (AECOM, 2023b); *Former Public Works Yard Steam Enhanced Extraction – Response to 5/5/2023 IEPA Letter*. Prepared on behalf of Shell Oil Products US (Shell); dated August 3, 2023.

AECOM, 2023; (AECOM, 2023c); *Former Public Works Yard Steam Enhanced Extraction – Additional Information to Final Design Report and Construction Work Plan (Area C)*. Prepared for Shell Oil Products US (Shell); dated September 22, 2023.

AECOM, 2023; (AECOM, 2023d); *Additional Information to the FPWY SEE FDRCWP – SEE System Startup Plan* (AECOM, 2023d). Prepared on behalf of Shell Oil Products US (Shell); dated November 29, 2023.

AECOM, 2024; (AECOM, 2024a); *Former Public Works Yard Steam Enhanced Extraction – Response to 1/26/2024 IEPA Letter*. Prepared on behalf of Shell Oil Products US (Shell); dated February 23, 2024.

AECOM, 2024; (AECOM, 2024b); *Former Public Works Yard Steam Enhanced Extraction – Pre-SEE Additional Sampling Results.* Prepared on behalf of Shell Oil Products US (Shell); dated March 4, 2024.

Illinois Environmental Protection Agency, 2010 (IEPA, 2010); *Hazardous Waste Management RCRA Post-Closure Permit.* Issued to Shell Oil Products US (Shell) at the WRB Refining LP Wood River Refinery (WRB WRR), issued September 23, 2010; effective October 28, 2010; modified April 2, 2013; modified June 13, 2014; modified November 25, 2014; modified July 29, 2015; modified December 20, 2019; modified March 28, 2022; modified October 31, 2022.

Illinois Environmental Protection Agency (IEPA), 2013; (IEPA, 2013); *Tiered Approach to Corrective Action Objectives Title 35 – Part 742; Appendix A, Table A: Soil Saturation Limits (C_{sat}) for Chemicals Whose Melting Point is Less than 30°C*. Effective July 15, 2013 from https://pcb.illinois.gov/documents/dsweb/Get/Document-38408/.

Illinois Environmental Protection Agency (IEPA), 2022; (IEPA, 2022); *Response to Public Works Yard Steam Enhanced Extraction Workplan*. Issued to Shell Oil Products US (Shell), dated August 22, 2022.

Illinois Environmental Protection Agency (IEPA), 2023; (IEPA, 2023); *Approval with Conditions of Old Public Works Yard Steam Enhanced Extraction Final Design Report & Construction Work Plan*. Issued to Shell Oil Products US (Shell), dated May 5, 2023.

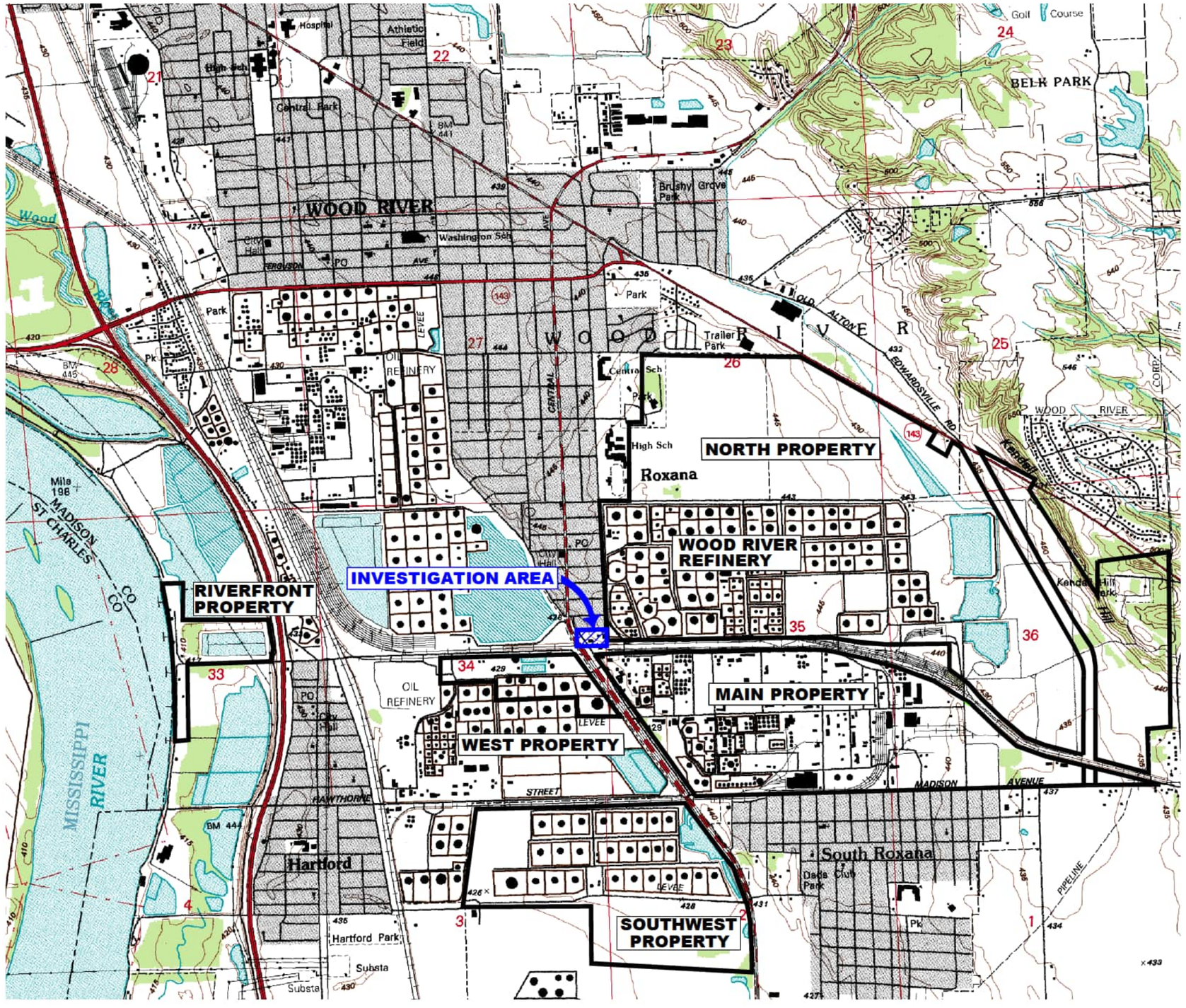
Illinois Environmental Protection Agency (IEPA), 2024; (IEPA, 2024a); *Approval with Conditions of Three Recent Former Public Works Yard Steam Enhanced Extraction Submittals*. Issued to Shell Oil Products US (Shell), dated January 26, 2024.

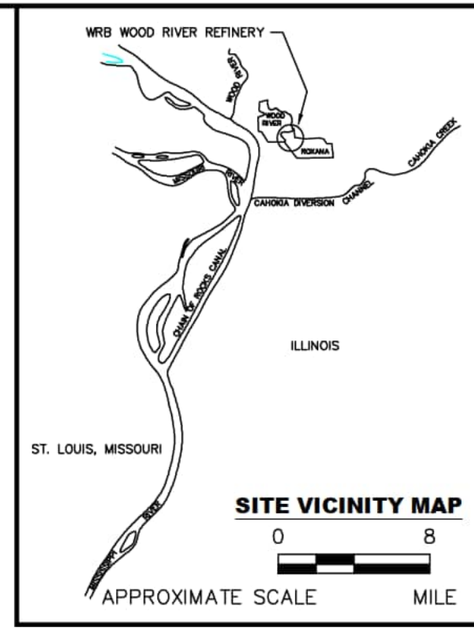
Illinois Environmental Protection Agency (IEPA), 2024; (IEPA, 2024b); *Approval with Conditions of Two Recent Former Public Works Yard Steam Enhanced Extraction Submittals*. Issued to Shell Oil Products US (Shell), dated April 22, 2024.

URS Corporation (URS), 2007; *West Fenceline P-93 Dissolved Phase Benzene Investigation Report-Roxana, Illinois*. Prepared for Shell Oil Products US (SOPUS); dated September 2007.

US Environmental Protection Agency (USEPA), November 2020; (USEPA, 2020); *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*.

Figures





LEGEND

- WOOD RIVER REFINERY PROPERTY BOUNDARY
- INVESTIGATION AREA

SOURCE: ELECTRONIC USGS DIGITAL RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP OF WOOD RIVER, IL–MO REVISED 1994.

0 2000

APPROXIMATE SCALE FEET

N

PUBLIC WORKS YARD SEE SYSTEM CONSTRUCTION COMPLETION REPORT ROXANA, ILLINOIS	PROJECT NO. 60721927
AECOM	
DRN. BY: EC JULY 2024 DSGN. BY: bah CHKD. BY: bah	Investigation Area Location Map
	FIG. NO. 1

File: C:\USERS\LURENTZ\MDOCUMENTS\DS SERVICES - DS CAD PROJECTS\DCS AMERICAS\SHELL\ILLINOIS\USP00666-850_IL-CENTRAL_AEC-ROXANA-IL\PUBLIC WORKS, ROXANA, IL\2024-07-29 --PUBLIC WORKS YARD CCR\WORKSPACE\FIGURE 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 08/07/24 4:33 PM by WDC-STLOUIS

LEGEND

NORFOLK SOUTHERN RAILROAD

GROUNDWATER MONITORING WELL LOCATION

SOIL VAPOR EXTRACTION (SVE) WELL

STEAM VAPOR MONITORING POINT (SVP)

VAPOR MONITORING POINT (VMP) LOCATION

NOTE:

RED ICONS/ LABELS INDICATE LOCATION WAS ABANDONED PRIOR TO SEE SYSTEM CONSTRUCTION.

CHAFFER AVE

EIGHTH ST

S. Old Edwardsville Rd

SVE SYSTEM

SVP-08 SVP-09 SVP-10 SVP-11 SVP-12 SVP-13 SVP-14

MW-25

VMP-18 VMP-19

SVP-01 SVP-02 SVP-03 SVP-04 SVP-05 SVP-06 SVP-07

MW-5 MW-7

SVE-20 SVE-36 SVE-21 SVE-23 SVE-22

VMP-41 VMP-10 VMP-11 VMP-17 VMP-12

SVE-2

VMP-29

MW-8

VMP-30 VMP-13

SVE-24 SVE-26 SVE-27

P-58

VMP-14

6" BENZENE

0 50

SCALE FEET

N

PUBLIC WORKS YARD SEE SYSTEM CONSTRUCTION COMPLETION REPORT ROXANA, ILLINOIS	PROJECT NO. 60721927
AECOM	
DRN. BY: bah JUL 2024 DSGN. BY: bah CHKD. BY: bah	SVP, EXISTING AND ABANDONED WELL LOCATIONS — FIG. NO. 2

LEGEND

- NORFOLK SOUTHERN RAILROAD
- MULTIPHASE EXTRACTION WELLS
- TEMPERATURE MONITORING WELLS
- STEAM VAPOR MONITORING POINT
- STEAM INJECTION WELLS
- THERMAL INFLUENCE BOUNDARY (APPROXIMATE)
- SEE SYSTEM RADIUS OF CAPTURE (APPROXIMATE)
- UNDERGROUND WATER LINE
- UNDERGROUND AMEREN ELECTRIC LINE
- UNDERGROUND COMMUNICATIONS LINE
- UNDERGROUND BUCKEYE PIPELINE
- UNDERGROUND SEWER LINE
- UNCONFIRMED UNDERGROUND SEWER LINE
- UNDERGROUND AMEREN NATURAL GAS LINE
- PERIMETER FENCING
- ANGLE OF MPE WELL
- ANGLE OF STEAM INJECTION WELL
- ANGLE OF TEMPERATURE WELL

NOTES:
1. SEE RADIUS OF CAPTURE IS APPROX. 70 FT ON CENTER FROM EACH MULTIPHASE EXTRACTION WELL.

CHAFFER AVE

EXISTING RTO

EIGHTH ST

S. Old Edwardsville Rd

Area A

Area B

Area C

Equipment Staging Area

SVP-01 SVP-02 SVP-03 SVP-04 SVP-05 SVP-06 SVP-07 SVP-08 SVP-09 SVP-10 SVP-11 SVP-12 SVP-13 SVP-14

X-AB4 X-AA2 X-AC5 X-AA0 T-AB3 T-AB2 T-AD5 X-AC3 T-AC2 X-AB1 T-AE5 X-AD2 X-AG7 X-AF6 X-AE4 T-AE3 X-AF4 X-AH7 T-AG6 X-AG5 T-AF3 X-AF3 T-AI7 T-AH5 X-AJ8 X-A16 X-AH5 X-CC5 T-CB1 X-CB1 X-CC1 X-BC1 X-BC2 X-BC3 X-BB2 T-BB2 X-BH2 X-BH3 X-BG1 X-BG2 T-BG2 X-BG3 T-BF2 X-BF2 X-BF1 X-BF3 T-BF3 X-BE1 X-BE2 T-BE3 X-BE3 X-BD1 X-BD2 X-BD3

0 50 SCALE FEET N

PUBLIC WORKS YARD SEE SYSTEM CONSTRUCTION COMPLETION REPORT ROXANA, ILLINOIS	PROJECT NO. 60721927
AECOM	
DRN. BY: EC JUL. 2024 DSGN. BY: bah CHKD. BY: bah	SEE SYSTEM RADIUS OF CAPTURE WITH SVPs AND UNDERGROUND UTILITIES — FIG. NO. 3

File: G:\STL\DOCS\DOCS_PROJECTS\DMA\SHELL\60592784 ROXANA 2019\500 DELIVERABLES (DELIV)\DATA CAP WORK\ANALYSES\PUBLIC WORKS YARD (DRAFT) BAH.DWG Last edited: MAY 09, 19 @ 08:22 a.m. by: wendy.pennington

LEGEND

NORFOLK SOUTHERN RAILROAD

THERMAL INFLUENCE BOUNDARY (APPROXIMATE)

WELL LOCATION SAMPLED FOR GROUNDWATER

GROUNDWATER PROFILE LOCATION – WELL NOT INSTALLED

WELL LOCATION SAMPLED FOR SOIL VAPOR AND SOIL

WELL LOCATION SAMPLED FOR GROUNDWATER AND SOIL VAPOR AND SOIL

SOIL BORING SAMPLE LOCATION – WELL NOT INSTALLED

WELL LOCATION SAMPLED FOR GROUNDWATER AND SOIL

WELL LOCATION SAMPLED FOR SOIL

CHAFFER AVE

EIGHTH ST

S. Old Edwardsville Rd

Area A

Area B

Area C

SVP-08 SVP-09 SVP-10 SVP-11 SVP-12 SVP-13 SVP-14

SVP-01 SVP-02 SVP-03 SVP-04 SVP-05 SVP-06 SVP-07

SI-AA3 SI-AA1 SI-BH3

X-AB4 X-AA2 X-BH2

SI-AD6 X-AC5 SI-AC4 X-AA0 X-BH3

SB-101A X-BG1 T-BG2

T-AB2 SI-AB0 SI-BF1 X-BG2

X-BF1 X-BG3

SB-101 X-AB1 X-AC3 X-BF2 SI-BF3

X-AD5 SI-AD3 GWP-101 X-BF3

X-BE1 SI-BE2

X-BE2

X-AD2 X-BE3

X-AG7 X-AE4 X-BD1 SI-BD2 SI-BE4

SI-AG7 X-AF6 SI-BD3

X-BD2

X-AF4 X-CC5 SI-BC1

SB-102 X-CB3 X-BD3

X-AH7 X-AG5 SI-AF3

SI-AG4 SB-105 X-BC1

SI-AI7 SI-AH5 X-AF3 SI-AF2 X-CB1 X-BC3

X-CC1 X-BC2

SB-104 X-BB2

X-AJ8

X-A16 X-AH5 SB-106 SB-107

SI-AJ6 SB-103

0 50

SCALE FEET

N

PUBLIC WORKS YARD SEE SYSTEM CONSTRUCTION COMPLETION REPORT ROXANA, ILLINOIS	PROJECT NO. 60721927
AECOM	
DRN. BY: EC JUL 2024 DSGN. BY: bah CHKD. BY: bah	PRE–SEE GROUNDWATER, SOIL AND SOIL VAPOR SAMPLING LOCATIONS
	FIG. NO. 4

LEGEND

- NORFOLK SOUTHERN RAILROAD
- EXTRACTION WELL
- STEAM VAPOR MONITORING POINT
- GROUNDWATER PROFILING LOCATION

NOTES:

1. ALL RESULTS SHOWN IN mg/L.
2. MULTIPLE RESULTS (e.g. 260/265) INDICATE DUPLICATE SAMPLES OR CONFIRMATION SAMPLES.
3. J = THE RESULT IS ESTIMATED.
4. GROUNDWATER PROFILING PERFORMED AT SVP-07 AND SVP-09 BORINGS BEFORE SVPs WERE INSTALLED

SVP-09	Benzene
Depth (ft bgs)	Result (mg/L)
50	0.00045 J
60	160
70	1.8
80	2
90	0.21

SVP-07	Benzene
Depth (ft bgs)	Result (mg/L)
50	94/99
60	1000
70	190
80	0.71
90	21

GWP-101	Benzene
Depth (ft bgs)	Result (mg/L)
45	850
55	440/430
65	1.7
75	12
85	1.5

EIGHTH ST

S. Old Edwardsville Rd

CHAFFER AVE

X-AD2
Benzene (mg/L)
885

X-AD5
Benzene (mg/L)
260/265

X-AC3
Benzene (mg/L)
956

X-AC5
Benzene (mg/L)
488

X-AB4
Benzene (mg/L)
344

X-AA2
Benzene (mg/L)
375

X-BG1
Benzene (mg/L)
423

X-BF1
Benzene (mg/L)
32.6

X-BH2
Benzene (mg/L)
467

X-BH3
Benzene (mg/L)
60.2

X-BG2
Benzene (mg/L)
30

X-CC5
Benzene (mg/L)
52.7

X-AA0
Benzene (mg/L)
519

X-AB1
Benzene (mg/L)
913

X-AE4
Benzene (mg/L)
1330

X-AF6
Benzene (mg/L)
32.4

X-AG7
Benzene (mg/L)
71.7

X-AF4
Benzene (mg/L)
500

X-AH7
Benzene (mg/L)
35.6

X-AG5
Benzene (mg/L)
490

X-AJ8
Benzene (mg/L)
639

X-AI6
Benzene (mg/L)
218

X-AF3
Benzene (mg/L)
358/364

X-CB3
Benzene (mg/L)
32.3

X-AH5
Benzene (mg/L)
1200

X-BD1
Benzene (mg/L)
28.4

X-BE1
Benzene (mg/L)
0.102

X-CB1
Benzene (mg/L)
11

X-CC1
Benzene (mg/L)
1.6

X-BC2
Benzene (mg/L)
69.7

X-BC1
Benzene (mg/L)
28.9

X-BB2
Benzene (mg/L)
82.5/84

X-BG3
Benzene (mg/L)
248

X-BF2
Benzene (mg/L)
25.5/25.1

X-BE3
Benzene (mg/L)
271

X-BF3
Benzene (mg/L)
476

X-BD2
Benzene (mg/L)
293

X-BE2
Benzene (mg/L)
160

X-BC3
Benzene (mg/L)
1.49

X-BD3
Benzene (mg/L)
66.6

SVP-09 SVP-07 GWP-101

X-AB4 X-AC5 X-AA2 X-AA0 X-AB1 X-AD5 X-AC3 X-AD2 X-AG7 X-AF6 X-AE4 X-AF4 X-AH7 X-AG5 X-AF3 X-AJ8 X-AI6 X-AH5 X-CC5 X-CB3 X-CB1 X-CC1 X-BC1 X-BB2 X-BG1 X-BH2 X-BH3 X-BG2 X-BF1 X-BG3 X-BF2 X-BF3 X-BE1 X-BE2 X-BE3 X-BD1 X-BD2 X-BD3 X-BC2 X-BC3

0 50 SCALE FEET N

PUBLIC WORKS YARD SEE SYSTEM
CONSTRUCTION COMPLETION REPORT
ROXANA, ILLINOIS

PROJECT NO. 60721927

AECOM

DRN. BY: EC JULY 2024
DSGN. BY: bah
CHKD. BY: bah

Pre-SEE Summary of Benzene Groundwater Analytical Results

FIG. NO. 5

LEGEND

NORFOLK SOUTHERN RAILROAD

INJECTION, EXTRACTION OR TEMPERATURE WELL

STEAM VAPOR MONITORING POINT

NOTES:

1. ALL RESULTS SHOWN IN mg/kg.
2. MULTIPLE RESULTS (e.g.1.16/2.47) INDICATE DUPLICATE SAMPLED OR CONFIRMATION SAMPLES.
2. J = RESULT IS ESTIMATED.
3. B = ANALYTE WAS DETECTED IN THE METHOD BLANK.
4. < = NOT DETECTED AT THE INDICATED REPORTING LIMIT.

EIGHTH ST

S. Old Edwardsville Rd

SCHAFFER AVE

SVP-11	Benzene (mg/kg)
10 ft bgs	<0.0056
20 ft bgs	<0.0049/<0.0053
30 ft bgs	<0.0062

SVP-12	Benzene (mg/kg)
10 ft bgs	<0.0055
20 ft bgs	<0.0051
30 ft bgs	<0.0052

SVP-13	Benzene (mg/kg)
10 ft bgs	<0.0054
20 ft bgs	<0.0051
30 ft bgs	<0.0056/<0.0056

SVP-05	Benzene (mg/kg)
10 ft bgs	<0.0054
20 ft bgs	<0.0053
30 ft bgs	<0.01

SVP-10	Benzene (mg/kg)
10 ft bgs	<0.0056/<0.0056
20 ft bgs	<0.0053
30 ft bgs	<0.0098

SVP-04	Benzene (mg/kg)
10 ft bgs	<0.0053
20 ft bgs	<0.0053
30 ft bgs	<0.0058

SVP-14	Benzene (mg/kg)
10 ft bgs	<0.0074
20 ft bgs	<0.0085
30 ft bgs	<0.0051

SVP-06	Benzene (mg/kg)
10 ft bgs	<0.0053
20 ft bgs	<0.0054
30 ft bgs	<0.0081

SVP-03	Benzene (mg/kg)
10 ft bgs	<0.006
20 ft bgs	<0.0052
30 ft bgs	<0.0055

SVP-07	Benzene (mg/kg)
10 ft bgs	<0.0072/<0.0068
20 ft bgs	<0.0053
30 ft bgs	<0.0036

SVP-08	Benzene (mg/kg)
10 ft bgs	<0.0058
20 ft bgs	<0.0056
30 ft bgs	<0.0053

SVP-09	Benzene (mg/kg)
10 ft bgs	<0.0062
20 ft bgs	<0.0053/<0.0061
30 ft bgs	<0.0059

SI-AA3	Benzene (mg/kg)
45 ft bgs	271
56 ft bgs	147

SI-BH3	Benzene (mg/kg)
48 ft bgs	0.298
56 ft bgs	15.6

SVP-01	Benzene (mg/kg)
10 ft bgs	<0.0054
20 ft bgs	<0.0062
30 ft bgs	<0.0051

SVP-02	Benzene (mg/kg)
10 ft bgs	<0.0057
20 ft bgs	<0.0069
30 ft bgs	0.0021 J

SI-BF1	Benzene (mg/kg)
48 ft bgs	1.16/2.47
56 ft bgs	146

SI-AA1	Benzene (mg/kg)
45 ft bgs	0.0103
50 ft bgs	502
56 ft bgs	119/152

T-BG2	Benzene (mg/kg)
48 ft bgs	0.012
59 ft bgs	53.8/69.9

SI-AD6	Benzene (mg/kg)
39 ft bgs	0.063 BJ
49 ft bgs	33.8 B
55 ft bgs	1630 B

SI-AC4	Benzene (mg/kg)
41 ft bgs	2.02
48 ft bgs	1720
56 ft bgs	45.9

SI-BF3	Benzene (mg/kg)
48 ft bgs	88.3/84.1
56 ft bgs	194

T-AB2	Benzene (mg/kg)
48 ft bgs	2.55
59 ft bgs	22.1

SB-101	Benzene (mg/kg)
20 ft bgs	<0.0053
48 ft bgs	730
51.5 ft bgs	280

SI-BE2	Benzene (mg/kg)
47 ft bgs	<0.211
53 ft bgs	52.4
56 ft bgs	263

SI-AD3	Benzene (mg/kg)
47 ft bgs	46.4
56 ft bgs	405/296

SB-101A	Benzene (mg/kg)
67 ft bgs	0.97

SI-BD2	Benzene (mg/kg)
46 ft bgs	0.085 J
53 ft bgs	2550
56 ft bgs	35.8

X-AD2	Benzene (mg/kg)
49 ft bgs	302/517
58 ft bgs	177

SI-BC1	Benzene (mg/kg)
40 ft bgs	0.406
49 ft bgs	7.19/24.2
56 ft bgs	269

SI-BE4	Benzene (mg/kg)
39 ft bgs	<1.14
49 ft bgs	37.8
55 ft bgs	2.48

SI-AG7	Benzene (mg/kg)
39 ft bgs	0.012 J
43 ft bgs	27.7
55 ft bgs	<0.943

SB-105	Benzene (mg/kg)
40 ft bgs	<0.23
55 ft bgs	471
67 ft bgs	0.27
73 ft bgs	0.0077

SI-BD3	Benzene (mg/kg)
30 ft bgs	<0.0384
48 ft bgs	421/142
57 ft bgs	0.937

SB-107	Benzene (mg/kg)
15 ft bgs	<0.223
39 ft bgs	<0.19
58 ft bgs	7.37
67 ft bgs	51.4
78 ft bgs	0.0305

X-AF6	Benzene (mg/kg)
40 ft bgs	6990/2050
47 ft bgs	48.3
58 ft bgs	6.23

SI-AF3	Benzene (mg/kg)
41 ft bgs	4330
47 ft bgs	296
55 ft bgs	882

SI-AF2	Benzene (mg/kg)
44 ft bgs	0.538
49 ft bgs	20.3

X-BC3	Benzene (mg/kg)
4 ft bgs	0.0048
9 ft bgs	<0.0011
38 ft bgs	<0.0345
47 ft bgs	641
58 ft bgs	62.8

X-BB2	Benzene (mg/kg)
4 ft bgs	0.0018
9 ft bgs	0.0014
38 ft bgs	114
47 ft bgs	419/1820

X-AE4	Benzene (mg/kg)
40 ft bgs	2630 B/2210 B
48 ft bgs	53.2
52 ft bgs	36.1

SB-102	Benzene (mg/kg)
10 ft bgs	<0.0054
42 ft bgs	8.5
52 ft bgs	12/17
55 ft bgs	610
72 ft bgs	3.7

X-AG5	Benzene (mg/kg)
40 ft bgs	122
49 ft bgs	352
56 ft bgs	0.543

SI-AI7	Benzene (mg/kg)
38 ft bgs	1570
48 ft bgs	2.84 S
55 ft bgs	0.0686

X-AJ8	Benzene (mg/kg)
38 ft bgs	2330
46 ft bgs	36.8/97.1
57 ft bgs	0.457

SI-AJ6	Benzene (mg/kg)
40 ft bgs	505
48 ft bgs	17.6
56 ft bgs	36.5

SB-104	Benzene (mg/kg)
42 ft bgs	14
57 ft bgs	149/197
65 ft bgs	0.382
78 ft bgs	<0.0304

SB-106	Benzene (mg/kg)
39 ft bgs	<0.0291
45 ft bgs	<0.0308/<0.031
58 ft bgs	1530
68 ft bgs	0.0419
77 ft bgs	0.0598

SB-103	Benzene (mg/kg)
38 ft bgs	<0.0288
43 ft bgs	<0.0244
58 ft bgs	0.0345
68 ft bgs	1030
77 ft bgs	0.0081

SVP-08 SVP-09 SVP-10 SVP-11 SVP-12 SVP-13 SVP-14

SVP-01 SVP-02 SI-AA3 SVP-03 SVP-04 SVP-05 SVP-06 SVP-07

SI-AA1 SI-BH3

SI-AD6 SI-AC4 T-AB2 SB-101A SB-101 SI-AB0 SI-BF1 T-BG2

SI-AD3 SI-BF3

X-AD2 SI-BE2

SI-AG7 X-AF6 X-AE4 SI-BC1 SI-BD2 SI-BE4

SI-AF3 SI-BD3

SI-AF2 SB-102 SB-105 SB-107

X-AG5 X-BC3

SI-AI7 SB-104 X-BB2

X-AJ8 SB-106

SI-AJ6 SB-103

0 40

SCALE FEET

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PUBLIC WORKS YARD SEE SYSTEM
CONSTRUCTION COMPLETION REPORT
ROXANA, ILLINOIS

PROJECT NO. 60721927

AECOM

DRN. BY: EC JUL. 2024
DSGN. BY: bah
CHKD. BY: bah

PRE–SEE Summary of Benzene Soil Analytical Results

FIG. NO. 6

File: G:\STL\ROX\YDS\PROJECTS\CAD\SHEETS\60592794 ROXANA 2019\500 DELIVERABLES\[GEL]VDATA GAP #OWSP\ANTIQUES\PUBLIC WORKS YARD (DRAFT) BAH.DWG Last edited: MAY 09, 19 @ 08:22 a.m. by: wnsh.pennington

LEGEND

NORFOLK SOUTHERN RAILROAD

SOIL TPH SAMPLE LOCATION

SOIL SAMPLE LOCATION NOT ANALYZED FOR TPH

NOTES:

1. ALL RESULTS SHOWN IN mg/kg.
2. MULTIPLE RESULTS (e.g.1.16/2.47)INDICATE DUPLICATE SAMPLED OR CONFIRMATION SAMPLES.
3. J= RESULT IS ESTIMATED.
4. S= SPIKE RECOVERY OUTSIDE LIMITS.
5. <= NOT DETECTED AT THE INDICATED REPORTING LIMIT.
6. "--"=RESULT WAS REJECTED OR ANALYTE NOT ANALYZED.
7. PRIOR TO IEPA LETTER DATED 5/5/2023, NOT EVERY SOIL SAMPLE WAS ANALYZED FOR TPH.

EIGHTH ST

CHAFFER AVE

S. Old Edwardsville

SB-102	TPH-DRO (C10 - C28)
Depth (ft bgs)	Result (mg/kg)
10	--
42	13
52	30/47
55	600
72	3.3 J

T-AB2	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
48	<13.8
59	<28.3

SI-AC4	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
41	<14.8
48	41.6
56	24.7

SI-AA3	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
45	<115
56	<14

SB-101A	TPH-DRO (C10 - C28)
Depth (ft bgs)	Result (mg/kg)
67	<5.8

SB-101	TPH-DRO (C10 - C28)
Depth (ft bgs)	Result (mg/kg)
20	4.6 J
48	<5.8
51.5	3.1 J

SI-AA1	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
45	<13.6
50	<14.2
56	<14/<13.9

SI-AB0	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
48	<73.2/<69.2
56	<24.3

SI-BF1	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
48	105/106
56	<28.7

SI-BC1	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
40	<14.6
49	247/517
56	<26.5

SI-BH3	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
48	<14.9
56	<13.8

T-BG2	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
48	<25.8
59	<13.2/<13.3

SI-BF3	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
48	148/40.1
56	<28.4

SI-BE2	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
47	24.3
53	<13.7
56	<14.7

SI-BE4	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
39	1200
49	1400
55	<26.5

SI-BD3	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
30	<16.8
48	188/129
57	<14.4

SB-105	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
40	206
55	<15.1
67	<14.3
73	<13.9

X-BC3	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
38	39.5
47	481
58	<14.8

X-BB2	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
38	2090
47	737/1240

X-AD2	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
49	<25.2/<12.7
58	<14.2

X-AE4	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
40	45.2/40.3
48	<13.5
52	14.6

SI-AG7	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
39	131
43	211
55	431 S

SI-AI7	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
38	353
48	<28.1
55	15.2

SI-AF2	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
44	<26.5
49	<14.2

SI-AJ6	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
40	63.7
48	<13
56	390

SB-104	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
42	17.1
57	<14.9/20.6
65	<14.4
78	<13

SB-106	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
39	<15.6
45	46.1/47.8
58	<17
68	<12.2
77	<12.9

SB-103	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
38	789
43	86.2
58	<13.4
68	29.5
77	<27.3

SB-107	TPH-DRO (C10 - C21)
Depth (ft bgs)	Result (mg/kg)
15	5040
39	519
58	<16.5
67	<15.5
78	<13.2

SI-AD6 SI-AC4 SI-AA3 SI-AA1 SI-AB0 SI-BF1 SI-BH3 T-BG2 T-AB2 SB-101A SB-101 SI-AD3 SI-BF3 SI-BE2 SI-AG7 X-AE4 X-AD2 X-AF6 SI-BD2 SI-BE4 SI-BC1 SI-BD3 SI-AF3 SB-102 SB-105 X-AG5 SI-AF2 SI-AI7 X-BC3 SB-104 X-AJ8 X-BB2 SB-106 SB-103 SB-107 SI-AJ6

0 40

SCALE FEET

N

PUBLIC WORKS YARD SEE SYSTEM
CONSTRUCTION COMPLETION REPORT
ROXANA, ILLINOIS

PROJECT NO. 60721927

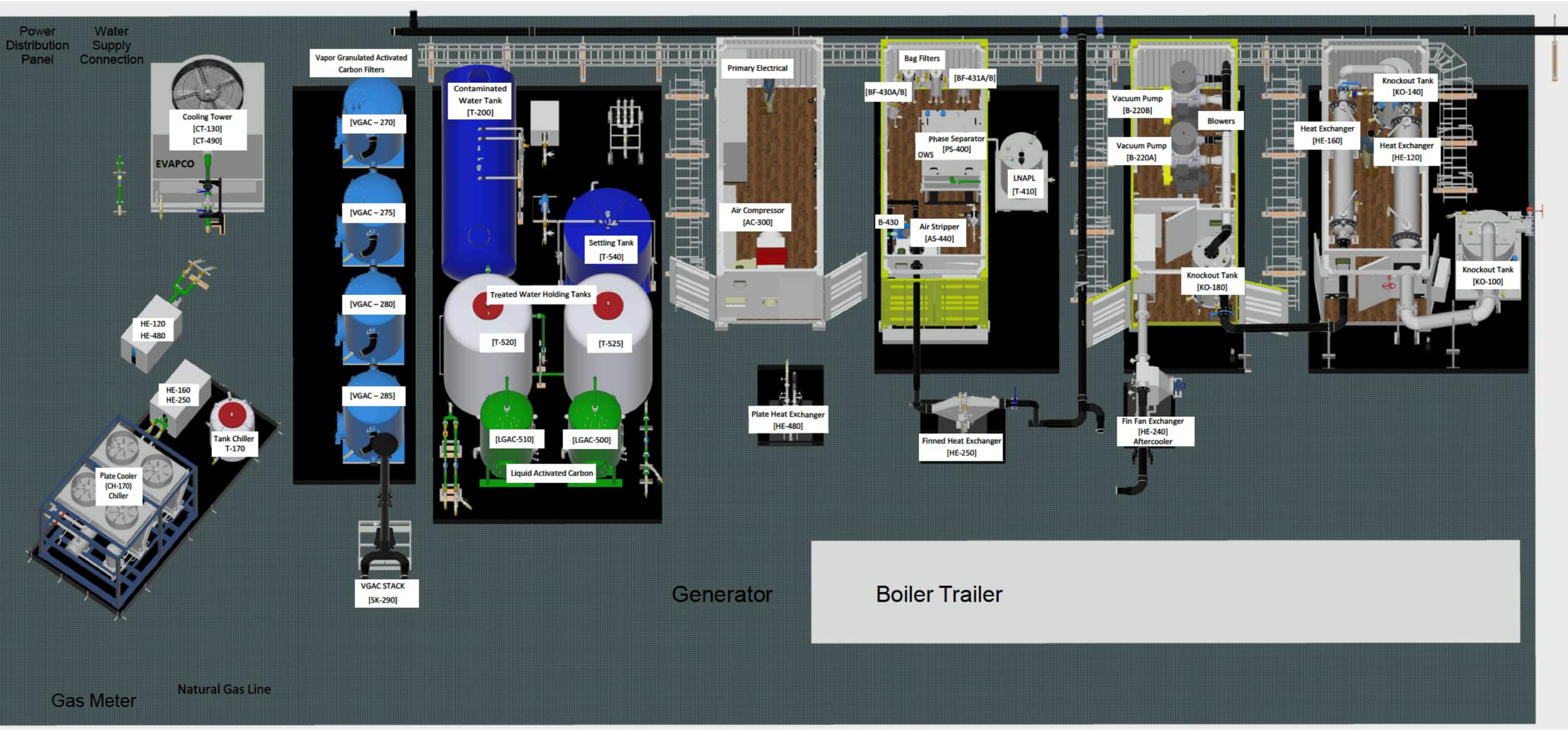
AECOM

DRN. BY: EC JUL. 2024
DSGN. BY: bah
CHKD. BY: bah

PRE-SEE Summary of TPH Soil Analytical Results

FIG. NO. 7

File: G:\GIS\GIS\PROJECTS\ROXANA\60592794 ROXANA 2018\500 DELIVERABLES (DELIV)\DATA GAP #2\ROXANA_PUBLIC WORKS YARD (DRAFT) BUILDING Last edited: MAY 09, 18 @ 0822 a.m. by: wendy.pennington


Power Distribution Panel
Water Supply Connection
Cooling Tower [CT-130] [CT-490]
EVAPCO
HE-120 HE-480
HE-160 HE-250
Tank Chiller T-170
Plate Cooler (CH-170) Chiller
Vapor Granulated Activated Carbon Filters
[VGAC – 270]
[VGAC – 275]
[VGAC – 280]
[VGAC – 285]
VGAC STACK [SK-290]
Contaminated Water Tank [T-200]
Settling Tank [T-540]
Treated Water Holding Tanks
[T-520]
[T-525]
[LGAC-510]
[LGAC-500]
Liquid Activated Carbon
Primary Electrical
Air Compressor [AC-300]
Plate Heat Exchanger [HE-480]
Bag Filters
[BF-430A/B]
[BF-431A/B]
Phase Separator [PS-400]
OWS
LNAPL [T-410]
B-430
Air Stripper [AS-440]
Finned Heat Exchanger [HE-250]
Vacuum Pump [B-220B]
Vacuum Pump [B-220A]
Blowers
Knockout Tank [KO-180]
Fin Fan Exchanger [HE-240] Aftercooler
Heat Exchanger [HE-160]
Knockout Tank [KO-140]
Heat Exchanger [HE-120]
Knockout Tank [KO-100]
Generator
Boiler Trailer
Gas Meter
Natural Gas Line

Tables

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				Benzene			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
Screening Criteria (mg/L)				0.005			0.0033			0.2			0.00043			0.005			1.4			0.007					
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	850		J	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 50	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	440			< 2	U		< 2	U		< 2	U		< 10	U		< 2	U		< 2	U		< 2	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	430			< 2	U		< 2	U		< 2	U		< 10	U		< 2	U		< 2	U		< 2	U	
GWP-101	GWP101-65-120822	65	12/8/2022	1.7			< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
GWP-101	GWP101-75-120822	75	12/8/2022	12			< 0.1	U		< 0.1	U		< 0.1	U		< 0.5	U		< 0.1	U		< 0.1	U		< 0.1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	1.5			< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	94			< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	99			< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	1000			< 5	U		< 5	U		< 5	U		< 25	U		< 5	U		< 5	U		< 5	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	190			< 1	U		< 1	U		< 1	U		< 5	U		< 1	U		< 1	U		< 1	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	0.71			< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	21			< 0.1	U		< 0.1	U		< 0.1	U		< 0.5	U		< 0.1	U		< 0.1	U		< 0.1	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	0.00045	J		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	160			< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	1.8			< 0.02	U		< 0.02	U		< 0.02	U		< 0.1	U		< 0.02	U		< 0.02	U		< 0.02	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	2			< 0.02	U		< 0.02	U		< 0.02	U		< 0.1	U		< 0.02	U		< 0.02	U		< 0.02	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	0.21			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.01	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	519			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	375			< 2	U		< 2	U	UJ	< 2	U	UJ	< 0.5	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	913			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	344			< 2	U		< 2	U	UJ	< 2	U	UJ	< 0.5	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	956			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	488			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	885			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	260			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	265			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	1330			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	358			< 10	U		< 10	U		< 10	U		< 2.5	U		< 10	U		< 10	U		< 10	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	364			< 10	U		< 10	U		< 10	U		< 2.5	U		< 10	U		< 10	U		< 10	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	500			< 10	U		< 10	U		< 10	U		< 2.5	U		< 10	U		< 10	U		< 10	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	32.4			< 10	U		< 10	U		< 10	U		< 2.5	U		< 10	U		< 10	U		< 10	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	490			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	71.7			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	1200			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	35.6			< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0050	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	218			< 10	U		< 10	U		< 10	U		< 2.5	U		< 10	U		< 10	U		< 10	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	639			< 20	U		< 20	U		< 20	U		< 5	U		< 20	U		< 20	U		< 20	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	82.5			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	84			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	28.9			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	69.7			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	1.49			< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0050	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	28.4			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	293			< 0.2	U		< 0.2	U		< 0.2	U		< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	66.6			< 0.5	U		< 0.5	U	UJ	< 0.5	U	UJ	< 0.125	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	0.102			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0005	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	160			< 0.2	U		< 0.2	U		< 0.2	U		< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	271			< 5	U		< 5	U		< 5	U	UJ	< 1.25	U		< 5	U		< 5	U		< 5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	32.6			< 2	U		< 2	U		< 2	U		< 0.5	U		< 2	U		< 2	U		< 2	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	25.5			< 0.2	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.0500	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	25.1			< 0.2	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.0500	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	476			< 5	U		< 5	U		< 5	U		< 1.25	U		< 5	U		< 5	U		< 5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	423			< 10	U		< 10	U		< 10	U		< 2.5	U		< 10	U		< 10	U		< 10	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	30			< 0.2	U		< 0.2	U		< 0.2	U		< 0.0500	U		< 0.2	U		< 0.2	RU		< 0.2	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	248			< 5	U		< 5	U		< 5	U	UJ	< 1.25	U		< 5	U		< 5	U		< 5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	467			< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 1.25	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	60.2			< 5	U		< 5	U		< 5	U		< 1.25	U		< 5	U		< 5	U		< 5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	11			< 0.1	U		< 0.1	U		< 0.1	U		< 0.0250	U		< 0.1	U		< 0.1	U		< 0.1	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	32.3			< 0.2	U		< 0.2	U		< 0.2	U		< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	1.6			< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0050	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	52.7			< 0.2	U		< 0.2	U		< 0.2	U		< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dichlorobenzene			1,2-Dichloroethane			1,2-Dichloropropane			1,2-Diphenylhydrazine		
Screening Criteria (mg/L)				0.0056			0.000012			0.07			0.07			0.6			0.005			0.005					
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 10	U	UJ	< 50	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	--		
GWP-101	GWP101-55-120822	55	12/8/2022	< 2	U		< 10	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		--		
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 2	U		< 10	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		--		
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0010	U		< 0.0050	U		< 0.0010	U		0.0036			< 0.0010	U		< 0.0010	U		< 0.0010	U		--		
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.1	U		< 0.5	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		--		
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.01	U		< 0.05	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		--		
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.5	U		< 2.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		--		
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.5	U		< 2.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		--		
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 5	U		< 25	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U		--		
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 1	U		< 5	U		< 1	U		< 1	U		< 1	U		< 1	U		< 1	U		--		
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		--		
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.1	U		< 0.5	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		--		
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		--		
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.5	U		< 2.5	U		< 0.5	U		0.79			< 0.5	U		< 0.5	U		< 0.5	U		--		
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.02	U		< 0.1	U		< 0.02	U		0.035			< 0.02	U		< 0.02	U		< 0.02	U		--		
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.02	U		< 0.1	U		< 0.02	U		0.036			< 0.02	U		< 0.02	U		< 0.02	U		--		
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0020	U		< 0.01	U		< 0.0020	U		0.023			< 0.0020	U		< 0.0020	U		< 0.0020	U		--		
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 2	U	UJ	< 2	U	UJ	< 0.01	U	UJ	< 2	U	UJ	< 0.01	U	UJ	< 2	U	UJ	< 2	U	UJ	< 0.010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 2	U	UJ	< 2	U	UJ	< 0.020	U	UJ	< 2	U	UJ	< 0.020	U	UJ	< 2	U	UJ	< 2	U	UJ	< 0.020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 20	U		< 20	U		< 0.01	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 20	U		< 20	U		< 0.01	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 20	U		< 20	U		< 0.01	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		5.05		J	< 2	U		< 0.010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U	UJ	< 2	U		< 0.010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 20	U		< 20	U		< 0.01	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 10	U		< 10	U		< 0.05	U		< 10	U		< 0.05	U		< 10	U		< 10	U		< 0.050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 10	U		< 10	U		< 0.050	U		< 10	U		< 0.05	U		< 10	U		< 10	U		< 0.050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 10	U		< 10	U		< 0.05	U		< 10	U		< 0.05	U		< 10	U		< 10	U		< 0.050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 10	U		< 10	U		< 0.01	U		< 10	U		< 0.01	U		< 10	U		< 10	U		< 0.010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 20	U		< 20	U		< 0.05	U		< 20	U		< 0.05	U		< 20	U		< 20	U		< 0.050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 20	U		< 20	U		< 0.010	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 20	U		< 20	U		< 0.01	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.0200	U		< 0.0200	U		< 0.05	U		0.35			< 0.05	U		< 0.0200	U		< 0.0200	U		< 0.050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 10	U		< 10	U		< 0.01	U		< 10	U		< 0.01	U		< 10	U		< 10	U		< 0.010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 20	U		< 20	U		< 0.01	U		< 20	U		< 0.01	U		< 20	U		< 20	U		< 0.010	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0200	U		< 0.0200	U		< 0.01	U		< 0.0200	U		< 0.01	U		< 0.0200	U		< 0.0200	U		< 0.010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.2	U		< 0.2	U		< 0.01	U		0.428			< 0.01	U		< 0.2	U		< 0.2	U		< 0.010	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.5	U	UJ	< 0.5	U	UJ	< 0.01	U	UJ	< 0.5	U	UJ	< 0.01	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.010	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0020	U		< 0.0020	U		< 0.01	U		0.376	E	J	< 0.01	U		< 0.0020	U		< 0.0020	U		< 0.010	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.2	U		< 0.2	U		< 0.01	U		0.35			< 0.01	U		< 0.2	U		< 0.2	U		< 0.010	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 5	U	UJ	< 0.01	U		< 5	U		< 0.01	U		< 5	U	UJ	< 5	U		< 0.010	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 2	U		< 2	U		< 0.01	U		< 2	U		< 0.01	U		< 2	U		< 2	U		< 0.010	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.2	U	UJ	< 0.2	U	UJ	< 0.01	U	UJ	< 0.2	U	UJ	< 0.01	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.010	U	
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.2	U	UJ	< 0.2	U	UJ	< 0.01	U	UJ	< 0.2	U	UJ	< 0.01	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.010	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 5	U		< 0.01	U		< 5	U		< 0.01	U		< 5	U		< 5	U		< 0.010	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 10	U		< 10	U		< 0.020	U		< 10	U		< 0.020	U		< 10	U		< 10	U		< 0.020	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.2	U		< 0.2	U		< 0.01	U		0.222			< 0.01	U		0.357	R		< 0.2	U		< 0.010	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 5	U	UJ	< 0.01	U		< 5	U		< 0.01	U		< 5	U	UJ	< 5	U		< 0.010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 5	U	UJ	< 5	U	UJ	< 0.01	U	UJ	< 5	U	UJ	< 0.01	U	UJ	< 5	U	UJ	< 5	U	UJ	< 0.010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 5	U		< 0.01	U		< 5	U		< 0.01	U		< 5	U		< 5	U		< 0.010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.1	U		< 0.1	U		< 0.01	U		< 0.1	U		< 0.01	U		< 0.1	U		< 0.1	U		< 0.010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.2	U		< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		< 0.2	U		< 0.2	U		< 0.010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0200	U		< 0.0200	U		< 0.01	U		< 0.0200	U		< 0.01	U		< 0.0200	U		< 0.0200	U		< 0.010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.2	U		< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		< 0.2	U		< 0.2	U		< 0.010	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			1-Chlorohexane			1-Methylnaphthalene			2,2-Dichloropropane		
Screening Criteria (mg/L)				0.07						0.14			0.075			0.0077						0.49					
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 0.011	U		< 10	U	UJ	0.014			< 10	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 2	U		< 2	U		< 2	U		< 2	U		< 0.0099	U		< 2	U		0.0045			< 2	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 2	U		< 2	U		< 2	U		< 2	U		< 0.0097	U		< 2	U		0.0045			< 2	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0097	U		< 0.0010	U		0.00033			< 0.0010	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.0097	U		< 0.1	U		0.00036			< 0.1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.0098	U		< 0.01	U		0.00035			< 0.01	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.0098	U		< 0.5	U		0.0064		J	< 0.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.0094	U		< 0.5	U		0.0085		J	< 0.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 5	U		< 5	U		< 5	U		< 5	U		< 0.02	UF1	UJ	< 5	U		0.0019			< 5	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 1	U		< 1	U		< 1	U		< 1	U		< 0.0095	U		< 1	U		0.00047			< 1	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0097	U		< 0.0010	U		< 0.00019	U		< 0.0010	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.01	U		< 0.1	U		0.00012	J		< 0.1	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.011	U*1		< 0.0010	U		< 0.00021	U		< 0.0010	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.011	U*1		< 0.5	U		0.1			< 0.5	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	0.011	J		< 0.02	U		< 0.02	U		< 0.02	U		< 0.0098	U*1		< 0.02	U		0.0034			< 0.02	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	0.012	J		< 0.02	U		< 0.02	U		< 0.02	U		< 0.0097	U*1		< 0.02	U		0.0046			< 0.02	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	0.0065			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0097	U*1		< 0.0020	U		0.0016			< 0.0020	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 2	U	UJ	< 0.01	U	UJ	< 2	U	UJ	< 0.01	U	UJ	--			--			--			< 2	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 2	U	UJ	< 0.020	U	UJ	< 2	U	UJ	< 0.020	U	UJ	--			--			--			< 2	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 10	U		< 0.05	U		< 10	U		< 0.05	U		--			--			--			< 10	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 10	U		< 0.05	U		< 10	U		< 0.05	U		--			--			--			< 10	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 10	U		< 0.05	U		< 10	U		< 0.05	U		--			--			--			< 10	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 10	U		< 0.01	U		< 10	U		< 0.01	U		--			--			--			< 10	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 20	U		< 0.05	U		< 20	U		< 0.05	U		--			--			--			< 20	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	0.102			< 0.05	U		< 0.0200	U		< 0.05	U		--			--			--			< 0.0200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 10	U		< 0.01	U		< 10	U		< 0.01	U		--			--			--			< 10	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 20	U		< 0.01	U		< 20	U		< 0.01	U		--			--			--			< 20	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	UJ
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0200	U		< 0.01	U		< 0.0200	U		< 0.01	U		--			--			--			< 0.0200	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		--			--			--			< 0.2	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.5	U	UJ	< 0.01	U	UJ	< 0.5	U	UJ	< 0.01	U	UJ	--			--			--			< 0.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	0.0187			< 0.01	U		< 0.0020	U		< 0.01	U		--			--			--			< 0.0020	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		--			--			--			< 0.2	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.01	U		< 5	U	UJ	< 0.01	U		--			--			--			< 5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 2	U		< 0.01	U		< 2	U		< 0.01	U		--			--			--			< 2	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.2	U	UJ	< 0.01	U	UJ	< 0.2	U	UJ	< 0.01	U	UJ	--			--			--			< 0.2	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.2	U	UJ	< 0.01	U	UJ	< 0.2	U	UJ	< 0.01	U	UJ	--			--			--			< 0.2	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.01	U		< 5	U		< 0.01	U		--			--			--			< 5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 10	U		< 0.020	U		< 10	U		< 0.020	U		--			--			--			< 10	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		--			--			--			< 0.2	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.01	U		< 5	U	UJ	< 0.01	U		--			--			--			< 5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 5	U	UJ	< 0.01	U	UJ	< 5	U	UJ	< 0.01	U	UJ	--			--			--			< 5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.01	U		< 5	U		< 0.01	U		--			--			--			< 5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.1	U		< 0.01	U		< 0.1	U		< 0.01	U		--			--			--			< 0.1	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		--			--			--			< 0.2	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0200	U		< 0.01	U		< 0.0200	U		< 0.01	U		--			--			--			< 0.0200	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.2	U		< 0.01	U		< 0.2	U		< 0.01	U		--			--			--			< 0.2	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Butanone (MEK)		
Screening Criteria (mg/L)				0.7			0.01			0.021			0.14			0.014			0.0001			0.00031			4.2		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		< 0.011	U		< 0.011	U		< 0.011	U		< 0.032	U		< 0.011	U		< 0.011	U		< 250	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		< 0.0099	U		< 0.0099	U		< 0.0099	U		< 0.03	U		< 0.0099	U		< 0.0099	U		< 50	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.029	U		< 0.0097	U		< 0.0097	U		< 50	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.029	U		< 0.0097	U		< 0.0097	U		< 0.025	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.029	U		< 0.0097	U		< 0.0097	U		< 2.5	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.029	U		< 0.0098	U		< 0.0098	U		< 0.25	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.029	U		< 0.0098	U		< 0.0098	U		< 13	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U		< 0.0094	U		< 0.0094	U		< 0.0094	U		< 0.028	U		< 0.0094	U		< 0.0094	U		< 13	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	UF1		< 0.02	U		< 0.02	U		< 0.02	U		< 0.06	U		< 0.02	U		< 0.02	U		< 130	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U		< 0.0095	U		< 0.0095	U		< 0.0095	U		< 0.029	U		< 0.0095	U		< 0.0095	U		< 25	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.029	U		< 0.0097	U		< 0.0097	U		< 0.025	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.031	U		< 0.01	U		< 0.01	U		< 2.5	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U		< 0.011	U		< 0.011	U		< 0.011	U		< 0.032	U		< 0.011	U		< 0.011	U		0.0098	J	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U		< 0.011	U		< 0.011	U		< 0.011	U		< 0.032	U		< 0.011	U		< 0.011	U		< 13	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.029	U		< 0.0098	U		< 0.0098	U		< 0.5	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.029	U		< 0.0097	U		< 0.0097	U		< 0.5	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.029	U		< 0.0097	U		< 0.0097	U		0.017	J	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.020	U		< 0.020	U		< 0.020	U		< 0.040	U		< 0.020	U		< 0.020	U		< 10	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.100	U		< 0.050	U		< 0.050	U		< 50	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.100	U		< 0.050	U		< 0.050	U		< 50	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.100	U		< 0.050	U		< 0.050	U		< 50	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 50	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.100	U		< 0.050	U		< 0.050	U		< 100	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.100	U		< 0.050	U		< 0.050	U		< 0.1	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 50	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 100	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.1	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 1	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 2.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.0100	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 1	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		0.016			< 0.020	U		< 0.010	U		< 0.010	U		< 25	U	UJ
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 10	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U	UJ	< 0.010	U		< 0.010	U		< 1	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 1	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 25	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.020	U		< 0.020	U		< 0.020	U		< 0.040	U		< 0.020	U		< 0.020	U		< 50	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 1	SRU	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 25	U	UJ
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 25	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 25	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.5	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 1	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.1	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.020	U		< 0.010	U		< 0.010	U		< 1	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				2-Chloroethylvinylether			2-Chloronaphthalene			2-Chlorophenol			2-Chlorotoluene			2-Hexanone			2-Methoxy-4-methylphenol			2-Methyl-4,6-dinitrophenol			2-Methylnaphthalene		
Screening Criteria (mg/L)							0.56			0.035			0.14			0.035						0.00056			0.028		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 50	U	UJ	< 0.011	U		< 0.011	U		< 10	U	UJ	< 250	U	UJ	--			< 0.011	U	UJ	0.021		
GWP-101	GWP101-55-120822	55	12/8/2022	< 10	U*+		< 0.0099	U		< 0.0099	U		< 2	U		< 50	U		--			< 0.0099	U	UJ	0.0035		
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 10	U*+		< 0.0097	U		< 0.0097	U		< 2	U		< 50	U		--			< 0.0097	U	UJ	0.0030		
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0050	U*+		< 0.0097	U		< 0.0097	U		< 0.0010	U		< 0.025	U		--			< 0.0097	U	UJ	0.00022		
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.5	U*+		< 0.0097	U		< 0.0097	U		< 0.1	U		< 2.5	U		--			< 0.0097	U	UJ	0.00036		
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.05	U*+		< 0.0098	U		< 0.0098	U		< 0.01	U		< 0.25	U		--			< 0.0098	U	UJ	0.00043		
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 2.5	U		< 0.0098	U		< 0.0098	U		< 0.5	U		< 13	U		--			< 0.0098	U		0.0063		J
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 2.5	U		< 0.0094	U		< 0.0094	U		< 0.5	U		< 13	U		--			< 0.0094	U		0.0086		J
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 25	U		< 0.02	U		< 0.02	U		< 5	U		< 130	U		--			< 0.02	U		0.0024		
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 5	U		< 0.0095	U		< 0.0095	U		< 1	U		< 25	U		--			< 0.0095	U		0.00047		
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0050	U		< 0.0097	U		< 0.0097	U		< 0.0010	U		< 0.025	U		--			< 0.0097	U		0.00011	J	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.5	U		< 0.01	U		< 0.01	U		< 0.1	U		< 2.5	U		--			< 0.01	U		0.00015	J	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.0050	U		< 0.011	U		< 0.011	U		< 0.0010	U		< 0.025	U		--			< 0.011	U		< 0.00021	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 2.5	U		< 0.011	U		< 0.011	U		< 0.5	U		< 13	U		--			< 0.011	U		0.23		
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.1	U		< 0.0098	U		< 0.0098	U		< 0.02	U		< 0.5	U		--			< 0.0098	U		0.0062		
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.1	U		< 0.0097	U		< 0.0097	U		< 0.02	U		< 0.5	U		--			< 0.0097	U		0.0078		
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.01	U		< 0.0097	U		< 0.0097	U		< 0.0020	U		< 0.05	U		--			< 0.0097	U		0.0026		
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 5	U	UJ	< 0.010	U		< 0.010	U		< 2	U	UJ	< 10	U	UJ	< 0.010	U		< 0.020	U		< 0.010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 5	U	UJ	< 0.020	U		< 0.020	U		< 2	U	UJ	< 10	U	UJ	< 0.020	U		< 0.040	U		< 0.020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		0.020		
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		0.059		
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 25	U		< 0.050	U		< 0.050	U		< 10	U		< 50	U		< 0.050	U		< 0.100	U		< 0.050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 25	U		< 0.050	U		< 0.050	U		< 10	U		< 50	U		< 0.050	U		< 0.100	U		< 0.050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 25	U		< 0.050	U		< 0.050	U		< 10	U		< 50	U		< 0.050	U		< 0.100	U		< 0.050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 25	U		< 0.010	U		< 0.010	U		< 10	U		< 50	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 50	U		< 0.050	U		< 0.050	U		< 20	U		< 100	U		< 0.050	U		< 0.100	U		< 0.050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		0.020		
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.0500	U		< 0.050	U		< 0.050	U		< 0.0200	U		< 0.1	U		< 0.050	U		< 0.100	U		< 0.050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 25	U		< 0.010	U		< 0.010	U		< 10	U		< 50	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 50	U		< 0.010	U		< 0.010	U		< 20	U		< 100	U		< 0.010	U		< 0.020	U		0.022		
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		0.034		
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		0.028		
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		0.022		
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0500	U		< 0.010	U		< 0.010	U		< 0.0200	U		< 0.1	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.5	U		< 0.010	U		< 0.010	U		< 0.2	U		< 1	U		< 0.010	U		< 0.020	U		0.026		
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 1.25	U	UJ	< 0.010	U		< 0.010	U		< 0.5	U	UJ	< 2.5	U	UJ	< 0.010	U		< 0.020	U		< 0.010	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0050	U		< 0.010	U		< 0.010	U		< 0.0020	U		< 0.0100	U		< 0.010	U		< 0.020	U		0.014		
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.5	U		< 0.010	U		< 0.010	U		< 0.2	U		< 1	U		< 0.010	U		< 0.020	U		0.027		
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.010	U		< 0.010	U		< 5	U		< 25	U		< 0.010	U		< 0.020	U		0.016		
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 5	U		< 0.010	U		< 0.010	U		< 2	U		< 10	U		< 0.010	U		< 0.020	U		0.040		
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.5	U	UJ	< 0.010	U		< 0.010	U		< 0.2	U	UJ	< 1	U	UJ	< 0.010	U		< 0.020	U	UJ	0.033		
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.5	U	UJ	< 0.010	U		< 0.010	U		< 0.2	U	UJ	< 1	U	UJ	< 0.010	U		< 0.020	U		0.028	H	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.010	U		< 0.010	U		< 5	U		< 25	U		< 0.010	U		< 0.020	U		0.013		
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 25	U		< 0.020	U		< 0.020	U		< 10	U		< 50	U		< 0.020	U		< 0.040	U		0.033		
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.5	U		< 0.010	U		< 0.010	U		< 0.2	U		< 1	U		< 0.010	U		< 0.020	U		0.025		
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.010	U		< 0.010	U		< 5	U		< 25	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 12.5	U	UJ	< 0.010	U		< 0.010	U		< 5	U	UJ	< 25	U	UJ	< 0.010	U		< 0.020	U		< 0.010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.010	U		< 0.010	U		< 5	U		< 25	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.25	U		< 0.010	U		< 0.010	U		< 0.1	U		< 0.5	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.5	U		< 0.010	U		< 0.010	U		< 0.2	U		< 1	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0500	U		< 0.010	U		< 0.010	U		< 0.0200	U		< 0.1	U		< 0.010	U		< 0.020	U		< 0.010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.5	U		< 0.010	U		< 0.010	U		< 0.2	U		< 1	U		< 0.010	U		< 0.020	U		< 0.010	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				2-Methylphenol			2-Nitroaniline			2-Nitrophenol			3&4-Methylphenol			3,3-Dichlorobenzidine			3-Nitroaniline			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol		
Screening Criteria (mg/L)				0.35			0.105						0.35			0.02											
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		< 0.011	U		< 0.011	U		< 0.022	U		< 0.011	U		< 0.011	U		< 0.011	U		< 0.011	U	
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		< 0.0099	U		< 0.0099	U		**0.0055**	**J**		< 0.0099	U		< 0.0099	U		< 0.0099	U		< 0.0099	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		**0.0044**	**J**		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.019	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.019	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.02	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U		< 0.0098	U		< 0.0098	U	**UJ**	< 0.02	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U		< 0.0094	U		< 0.0094	U	**UJ**	< 0.019	U		< 0.0094	U		< 0.0094	U		< 0.0094	U		< 0.0094	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	U		< 0.02	U		< 0.02	U		< 0.04	U		< 0.02	**UF2F1*+**	**UJ**	< 0.02	U		< 0.02	U		< 0.02	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U		< 0.0095	U		< 0.0095	U	**UJ**	< 0.019	U		< 0.0095	U		< 0.0095	U		< 0.0095	U		< 0.0095	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U	**UJ**	< 0.019	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U		< 0.01	U		< 0.01	U	**UJ**	< 0.02	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U		< 0.011	U		< 0.011	U		< 0.021	U		< 0.011	**U*+**		< 0.011	**U*+**		< 0.011	U		< 0.011	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U		< 0.011	U		< 0.011	U		< 0.021	U		< 0.011	**U*+**		< 0.011	**U*+**		< 0.011	U		< 0.011	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.02	U		< 0.0098	**U*+**		< 0.0098	**U*+**		< 0.0098	U		< 0.0098	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.019	U		< 0.0097	**U*+**		< 0.0097	**U*+**		< 0.0097	U		< 0.0097	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.019	U		< 0.0097	**U*+**		< 0.0097	**U*+**		< 0.0097	U		< 0.0097	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.080	U		< 0.040	U		< 0.020	U		< 0.020	U		< 0.080	U		< 0.020	U		< 0.040	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.200	U		< 0.100	U		< 0.050	U		< 0.050	U		< 0.200	U		< 0.050	U		< 0.100	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.200	U		< 0.100	U		< 0.050	U		< 0.050	U		< 0.200	U		< 0.050	U		< 0.100	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.200	U		< 0.100	U		< 0.050	U		< 0.050	U		< 0.200	U		< 0.050	U		< 0.100	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.200	U		< 0.100	U		< 0.050	U		< 0.050	U		< 0.200	U		< 0.050	U		< 0.100	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.200	U		< 0.100	U		< 0.050	U		< 0.050	U		< 0.200	U		< 0.050	U		< 0.100	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.040	U		< 0.020	U	**UJ**	< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.080	U		< 0.040	U		< 0.020	U		< 0.020	U		< 0.080	U		< 0.020	U		< 0.040	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.040	U		< 0.020	U		< 0.010	U		< 0.010	U		< 0.040	U		< 0.010	U		< 0.020	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				4-Chloroaniline			4-Chlorophenyl phenyl ether			4-Chlorotoluene			4-Methyl-2-Pentanone (MIBK)			4-Nitroaniline			4-Nitrophenol			Acenaphthene			Acenaphthylene		
Screening Criteria (mg/L)				0.028						0.56						0.028						0.42			0.21		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		< 0.011	U		< 10	U	UJ	< 250	U	UJ	< 0.011	U		< 0.011	U		0.0015			0.00042		
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		< 0.0099	U		< 2	U		< 50	U		< 0.0099	U		< 0.0099	U		0.00070			< 0.00020	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		< 0.0097	U		< 2	U		< 50	U		< 0.0097	U		< 0.0097	U		0.00048			< 0.00019	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0010	U		< 0.025	U		< 0.0097	U		< 0.0097	U		0.00012	J		< 0.00019	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.1	U		< 2.5	U		< 0.0097	U		< 0.0097	U		< 0.00019	U		< 0.00019	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		< 0.0098	U		< 0.01	U		< 0.25	U		< 0.0098	U		< 0.0098	U		< 0.00020	U		< 0.00020	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U		< 0.0098	U		< 0.5	U		< 13	U		< 0.0098	U		< 0.0098	U		0.00015	J		0.000090	J	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U		< 0.0094	U		< 0.5	U		< 13	U		< 0.0094	U		< 0.0094	U		0.00020			0.00012	J	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	U		< 0.02	U*+		< 5	U		< 130	U		< 0.02	U		< 0.02	UF1		< 0.0010	U		< 0.0010	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U		< 0.0095	U		< 1	U		< 25	U		< 0.0095	U		< 0.0095	U		< 0.00019	U		< 0.00019	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U		< 0.0097	U		< 0.0010	U		< 0.025	U		< 0.0097	U		< 0.0097	U		< 0.00019	U		< 0.00019	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U		< 0.01	U		< 0.1	U		< 2.5	U		< 0.01	U		< 0.01	U		< 0.00020	U		< 0.00020	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U*+		< 0.011	U		< 0.0010	U		< 0.025	U		< 0.011	U		< 0.011	U		< 0.00021	U		< 0.00021	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U*+		< 0.011	U		< 0.5	U		< 13	U		< 0.011	U		< 0.011	U		0.0011			0.00092		
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U*+		< 0.0098	U		< 0.02	U		< 0.5	U		< 0.0098	U		< 0.0098	U		< 0.00020	U		< 0.00020	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U*+		< 0.0097	U		< 0.02	U		< 0.5	U		< 0.0097	U		< 0.0097	U		< 0.00019	U		< 0.00019	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U*+		< 0.0097	U		< 0.0020	U		< 0.05	U		< 0.0097	U		< 0.0097	U		< 0.00019	U		< 0.00019	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		< 0.00010	U		0.00014		
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.010	U		< 2	U	UJ	< 10	U	UJ	< 0.020	U		< 0.020	U		< 0.00010	U		< 0.00010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		< 0.00010	U		0.00016		
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.040	U		< 0.020	U		< 2	U	UJ	< 10	U	UJ	< 0.040	U		< 0.040	U		0.00024			< 0.00020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		< 0.00010	U		0.00012		
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		< 0.00010	U		0.00015		
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		0.00021			< 0.00010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00011			< 0.00010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00013			< 0.00010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		0.00042			0.00015		
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.100	U		< 0.050	U		< 10	U		< 50	U		< 0.100	U		< 0.100	U		0.00190			< 0.00050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.100	U		< 0.050	U		< 10	U		< 50	U		< 0.100	U		< 0.100	U		0.00180			< 0.00050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.100	U		< 0.050	U		< 10	U		< 50	U		< 0.100	U		< 0.100	U		< 0.00050	U		< 0.00050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 10	U		< 50	U		< 0.020	U		< 0.020	U		< 0.00010	U		< 0.00010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.100	U		< 0.050	U		< 20	U		< 100	U		< 0.100	U		< 0.100	U		< 0.00050	U		< 0.00050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		0.00029			0.00016		
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		0.00030			< 0.00010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.100	U		< 0.050	U		< 0.0200	U		< 0.1	U		< 0.100	U		< 0.100	U		0.00060			< 0.00050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.020	U		< 0.010	U		< 10	U		< 50	U		< 0.020	U		< 0.020	U		0.00022			< 0.00010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 20	U		< 100	U		< 0.020	U		< 0.020	U		0.00023			0.00011		
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00145			0.00039		
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00132			0.00021		
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00162			0.00016		
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00223			0.00025		
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.020	U		< 0.010	U		< 0.0200	U		< 0.1	U		< 0.020	U		< 0.020	U		< 0.00010	U		< 0.00010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00160			0.00017		
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.020	U		< 0.010	U		< 0.2	U		< 1	U		< 0.020	U		< 0.020	U		0.00178			0.00019		
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.020	U		< 0.010	U		< 0.5	U	UJ	< 2.5	U	UJ	< 0.020	U		< 0.020	U		0.00134			0.00017		
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.010	U		< 0.0020	U		< 0.0100	U		< 0.020	U		< 0.020	U		0.00222			0.00043		
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.020	U		< 0.010	U		< 0.2	U		< 1	U		< 0.020	U		< 0.020	U		0.00092			0.00011		
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 5	U		< 25	U		< 0.020	U		< 0.020	U		0.00080			< 0.00010	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.010	U		< 2	U		< 10	U		< 0.020	U		< 0.020	U		0.00126			0.00023		
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.020	U	UJ	< 0.010	U		< 0.2	U	UJ	< 1	U	UJ	< 0.020	U		< 0.020	U	UJ	0.00122			0.00025		
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.020	U		< 0.010	U		< 0.2	U	UJ	< 1	U	UJ	< 0.020	U		< 0.020	U		0.00107	H		0.00022		
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 5	U		< 25	U		< 0.020	U		< 0.020	U		0.00034			< 0.00010	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.040	U		< 0.020	U		< 10	U		< 50	U		< 0.040	U		< 0.040	U		0.00118			0.00024		
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.020	U		< 0.010	U		< 0.2	U		< 1	U		< 0.020	U		< 0.020	U		0.00081			0.00015		
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 5	U		< 25	U		< 0.020	U		< 0.020	U		0.00029			< 0.00010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 5	U	UJ	< 25	U	UJ	< 0.020	U		< 0.020	U		0.00024			< 0.00010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 5	U		< 25	U		< 0.020	U		< 0.020	U		0.00018			< 0.00010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.1	U		< 0.5	U		< 0.020	U		< 0.020	U		< 0.00010	U		< 0.00010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.2	U		< 1	U		< 0.020	U		< 0.020	U		< 0.00010	U		< 0.00010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.0200	U		< 0.1	U		< 0.020	U		< 0.020	U		0.00045			< 0.00010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.2	U		< 1	U		< 0.020	U		< 0.020	U		0.00025			< 0.00010	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Acetone			Acrolein			Acrylonitrile			Aniline			Anthracene			Azobenzene			Benzenethiol			Benzidine		
Screening Criteria (mg/L)				6.3			0.0035			0.00016			0.015			2.1									0.00000037		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 250	U	UJ	< 200	U	UJ	< 100	U	UJ	< 0.011	U		< 0.00022	U		< 0.011	U	UJ	< 0.011	U*1		--		
GWP-101	GWP101-55-120822	55	12/8/2022	< 50	U		< 40	U		< 20	U		< 0.0099	U		< 0.00020	U		< 0.0099	U	UJ	< 0.0099	U*1		--		
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 50	U		< 40	U		< 20	U		< 0.0097	U		< 0.00019	U		< 0.0097	U	UJ	< 0.0097	U*1		--		
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.025	U		< 0.02	U		< 0.01	U		< 0.0097	U		< 0.00019	U		< 0.0097	U	UJ	< 0.0097	U*1		--		
GWP-101	GWP101-75-120822	75	12/8/2022	< 2.5	U		< 2	U		< 1	U		< 0.0097	U		< 0.00019	U		< 0.0097	U	UJ	< 0.0097	U*1		--		
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.25	U		< 0.2	U		< 0.1	U		< 0.0098	U		< 0.00020	U		< 0.0098	U	UJ	< 0.0098	U*1		--		
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 13	U		< 10	U		< 5	U		< 0.0098	U		< 0.00020	U		< 0.0098	U	UJ	< 0.0098	U*1		--		
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 13	U		< 10	U		< 5	U		< 0.0094	U		< 0.00019	U		< 0.0094	U	UJ	< 0.0094	U*1		--		
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 130	U		< 100	U		< 50	U		< 0.02	U		< 0.0010	U		< 0.02	U	UJ	< 0.02	U*1		--		
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 25	U		< 20	U		< 10	U		< 0.0095	U		< 0.00019	U		< 0.0095	U	UJ	< 0.0095	U*1		--		
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.025	U		< 0.02	U		< 0.01	U		< 0.0097	U		< 0.00019	U		< 0.0097	U	UJ	< 0.0097	U*1		--		
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 2.5	U		< 2	U		< 1	U		< 0.01	U		< 0.00020	U		< 0.01	U	UJ	< 0.01	U*1		--		
SVP-09-50	SVP09-50-010623	50	1/6/2023	**0.033**			< 0.02	U		< 0.01	U		< 0.011	U		< 0.00021	U		< 0.011	U		< 0.011	U*-	UJ	--		
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 13	U		< 10	U		< 5	U		< 0.011	U		< 0.00021	U		< 0.011	U		< 0.011	U*-	UJ	--		
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.5	U		< 0.4	U		< 0.2	U		< 0.0098	U		< 0.00020	U		< 0.0098	U		< 0.0098	U*-	UJ	--		
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.5	U		< 0.4	U		< 0.2	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.0097	U*-	UJ	--		
SVP-09-90	SVP09-90-010623	90	1/6/2023	**0.049**	J		< 0.04	U		< 0.02	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.0097	U*-	UJ	--		
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 10	U	UJ	< 20	U		< 5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 10	U	UJ	< 20	U	UJ	< 5	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 10	U	UJ	< 20	U		< 5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 10	U	UJ	< 20	U	UJ	< 5	U	UJ	< 0.040	U		< 0.00020	U		< 0.020	U		--			< 0.080	SU	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 100	U	UJ	< 200	U	UJ	< 50	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 10	U	UJ	< 20	U		< 5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 10	U	UJ	< 20	U		< 5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 50	U	UJ	< 100	U		< 25	U		< 0.100	U		< 0.00050	U		< 0.050	U		--			< 0.200	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 50	U	UJ	< 100	U		< 25	U		< 0.100	U		< 0.00050	U		< 0.050	U		--			< 0.200	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 50	U	UJ	< 100	U		< 25	U		< 0.100	U		< 0.00050	U		< 0.050	U		--			< 0.200	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 50	U	UJ	< 100	U		< 25	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.100	U		< 0.00050	U		< 0.050	U		--			< 0.200	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.1	U		< 0.2	U		< 0.0500	U		< 0.100	U		< 0.00050	U		< 0.050	U		--			< 0.200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 50	U	UJ	< 100	U		< 25	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 100	U	UJ	< 200	U		< 50	U		< 0.020	U		**0.00010**		J	< 0.010	U		--			< 0.040	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 10	U		< 20	U		< 5	U		< 0.020	U		**0.00020**			< 0.010	U		--			< 0.040	U	UJ
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 10	U		< 20	U		< 5	U		< 0.020	U		**0.00019**			< 0.010	U		--			< 0.040	U	UJ
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 10	U	UJ	< 20	U	UJ	< 5	U		< 0.020	U		**0.00035**			< 0.010	U		--			< 0.040	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 10	U		< 20	U		< 5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.1	U	UJ	< 0.2	U		< 0.0500	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 10	U		< 20	U		< 5	U		< 0.020	U		**0.00015**			< 0.010	U		--			< 0.040	U	UJ
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 1	U		< 2	U		< 0.5	U		< 0.020	U		**0.00012**			< 0.010	U		--			< 0.040	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 2.5	U	UJ	< 5	U	UJ	< 1.25	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0100	U		< 0.0200	U		< 0.0050	U		< 0.020	U		**0.00013**			< 0.010	U		--			< 0.040	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 1	U		< 2	U		< 0.5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 25	U	UJ	< 50	U		< 12.5	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 10	U		< 20	U		< 5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 1	U	UJ	< 2	U	UJ	< 0.5	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 1	U	UJ	< 2	U	UJ	< 0.5	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 25	U		< 50	U		< 12.5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 50	U		< 100	U		< 25	U		< 0.040	U		< 0.00020	U		< 0.020	U		--			< 0.080	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 1	U		< 2	U		< 0.5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 25	U	UJ	< 50	U		< 12.5	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 25	U	UJ	< 50	U	UJ	< 12.5	U	UJ	< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 25	U		< 50	U		< 12.5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	UJ
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.5	U		< 1	U		< 0.25	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 1	U		< 2	U		< 0.5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.1	U		< 0.2	U		< 0.0500	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 1	U		< 2	U		< 0.5	U		< 0.020	U		< 0.00010	U		< 0.010	U		--			< 0.040	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene			Benzo(g-h-i)perylene			Benzo(k)fluoranthene			Benzoic acid			Benzyl alcohol			Bis(2-chloroethoxy)methane		
Screening Criteria (mg/L)				0.00013			0.0002			0.00018			0.21			0.00017			28			0.7					
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	0.0014	B		0.0012	B		< 0.00061	B	U	0.00017	J		< 0.00022	U		< 0.032	U*1		< 0.011	U	UJ	< 0.011	U	
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.00027	B	U	< 0.00031	B	U	< 0.00028	B	U	< 0.00020	U		< 0.00020	U		0.029	J*1		< 0.0099	U	UJ	< 0.0099	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.00019	B	U	< 0.00021	B	U	< 0.00028	B	U	< 0.00019	U		< 0.00019	B	U	0.029	*1		< 0.0097	U	UJ	< 0.0097	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.00019	U		< 0.00019	U		< 0.00019	JB	U	< 0.00019	U		< 0.00019	U		< 0.029	U*1		< 0.0097	U	UJ	< 0.0097	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.00019	U		< 0.00019	JB	U	< 0.00019	JB	U	< 0.00019	U		< 0.00019	JB	U	0.01	J*1		< 0.0097	U	UJ	< 0.0097	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.00020	JB	U	< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.029	U*1		< 0.0098	U	UJ	< 0.0098	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.00020	J	U	< 0.00020	J	U	< 0.00020	JB	U	< 0.00020	U		< 0.00020	J	U	< 0.029	U		< 0.0098	U	UJ	< 0.0098	U	UJ
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.00019	U		< 0.00019	U		< 0.00019	U		< 0.00019	U		< 0.00019	U		< 0.028	U		< 0.0094	U	UJ	< 0.0094	U	UJ
SVP-07-60	SVP07-60-121522	60	12/15/2022	0.00064	JF1	J	0.00082	JF1	J	< 0.0010	JF1B	U	< 0.0010	UF1	UJ	0.00072	JF1	J	0.023	J		< 0.02	U	UJ	< 0.02	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.00019	U		< 0.00019	U		< 0.00019	JB	U	< 0.00019	U		< 0.00019	U		< 0.029	U		< 0.0095	U	UJ	< 0.0095	U	UJ
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.00019	U		< 0.00019	U		< 0.00019	JB	U	< 0.00019	U		< 0.00019	U		< 0.029	U		< 0.0097	U	UJ	< 0.0097	U	UJ
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.031	U		< 0.01	U	UJ	< 0.01	U	UJ
SVP-09-50	SVP09-50-010623	50	1/6/2023	0.00016	J		< 0.00025	B	U	< 0.00027	B	U	< 0.00021	U		< 0.00022	B	U	0.036			< 0.011	U		< 0.011	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	0.0012	J		< 0.00028	B	U	0.0021	B		< 0.00021	U		< 0.00029	B	U	< 0.032	U		< 0.011	U		< 0.011	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.00020	U		< 0.00020	U		< 0.00020	U	UJ	< 0.00020	U		< 0.00020	U		< 0.029	U		< 0.0098	U		< 0.0098	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.00019	U		< 0.00019	U		< 0.00019	U	UJ	< 0.00019	U		< 0.00019	U		< 0.029	U		< 0.0097	U		< 0.0097	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.00019	U		< 0.00019	JB	U	< 0.00019	U	UJ	< 0.00019	U		< 0.00019	U		< 0.029	U		< 0.0097	U		< 0.0097	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.100	U		< 0.040	U		< 0.020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.250	U	UJ	< 0.100	U		< 0.050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.250	U	UJ	< 0.100	U		< 0.050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.250	U	UJ	< 0.100	U		< 0.050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U	UJ	< 0.020	U		< 0.010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.250	U		< 0.100	U		< 0.050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U	UJ	< 0.020	U		< 0.010	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U	UJ	< 0.020	U		< 0.010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.00050	U		< 0.250	U		< 0.100	U		< 0.050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U	UJ	< 0.020	U		< 0.010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U	UJ	< 0.020	U		< 0.010	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	0.00012			< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		0.066		J	< 0.010	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U	UJ	< 0.010	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	0.00010			< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	0.00020			< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.00020	U		< 0.100	U		< 0.040	U		< 0.020	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.00010	U		< 0.050	U		< 0.020	U		< 0.010	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				Bis(2-chloroethyl)ether			bis(2-Chloroisopropyl)ether			Bis(2-ethylhexyl)phthalate			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane		
Screening Criteria (mg/L)				0.01						0.006			0.056						0.0002			0.001			0.0098		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		< 0.011	U		< 0.011	U		< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 50	U	UJ	< 10	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		< 0.0099	U		< 0.0099	U		< 2	U		< 2	U		< 2	U		< 10	U		< 2	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 2	U		< 2	U		< 2	U		< 10	U		< 2	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.5	U		< 0.1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.05	U		< 0.01	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U	UJ	< 0.0098	U		< 0.0098	U		< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U	UJ	< 0.0094	U		< 0.0094	U		< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	U	UJ	< 0.02	U		< 0.02	U		< 5	U		< 5	U		< 5	U		< 25	U		< 5	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U	UJ	< 0.0095	U		< 0.0095	U		< 1	U		< 1	U		< 1	U		< 5	U		< 1	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U	UJ	< 0.0097	U		< 0.0097	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U	UJ	< 0.01	U		< 0.01	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.5	U		< 0.1	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U		< 0.011	U		< 0.011	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U		< 0.011	U		< 0.011	U		< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.02	U		< 0.02	U		< 0.02	U		< 0.1	U		< 0.02	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.02	U		< 0.02	U		< 0.02	U		< 0.1	U		< 0.02	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.01	U		< 0.0020	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 5	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.020	U		< 0.012	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 5	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.050	U		< 0.030	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.050	U		< 0.030	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.050	U		< 0.030	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.050	U		< 0.030	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.050	U		< 0.030	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0500	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0500	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 1.25	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0050	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.5	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.5	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.020	U		< 0.012	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 12.5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.25	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0500	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.010	U		< 0.006	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Butylbenzylphthalate			Carbazole			Carbon Disulfide			Carbon Tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform		
Screening Criteria (mg/L)				1.4						0.7			0.005			0.1			0.14						0.07		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		--			< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		--			< 2	U	UJ	< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		--			< 2	U	UJ	< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		--			0.00050	J	J	< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		--			< 0.1	U	UJ	< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		--			< 0.01	U	UJ	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U		--			< 0.5	U		0.1	J		0.14	J		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U		--			< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	UF1	UJ	--			< 5	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U		--			< 1	U		< 1	U		< 1	U		< 1	U		< 1	U		< 1	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U		--			< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U		--			< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	0.0028	J		--			0.00059	J		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U		--			< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U		--			< 0.02	U		< 0.02	U		< 0.02	U		< 0.02	U		< 0.02	U		< 0.02	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U		--			< 0.02	U		< 0.02	U		< 0.02	U		< 0.02	U		< 0.02	U		< 0.02	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U		--			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.020	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.040	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.100	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.050	U		< 0.100	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.100	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.020	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.100	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 0.100	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.010	U		< 0.020	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 0.020	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U		< 20	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.010	U		< 0.020	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.020	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.010	U		< 0.020	U		< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.020	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.020	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 0.020	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U		< 2	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.020	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.010	U		< 0.020	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.020	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.040	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U		< 10	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.020	U		< 0.2	U		< 0.2	RU		< 0.2	RU		< 0.2	U		< 0.2	U		< 0.2	RU	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.020	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.020	U		< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 0.020	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U		< 5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.020	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.020	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.020	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.020	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Chloromethane			Chrysene			cis-1,2-Dichloroethene			cis-1,3-Dichloropropene			Dibenz(a,h)acridine			Dibenzo(a-h)anthracene			Dibenzofuran			Dibromomethane		
Screening Criteria (mg/L)							0.012			0.07									0.0003			0.007					
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 10	U	UJ	0.0024			< 10	U	UJ	< 50	U	UJ	< 0.011	U		0.000099	J		0.0011	J		< 50	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 2	U		0.00016	J		< 2	U		< 10	U		< 0.0099	U		< 0.00020	U		< 0.0099	U		< 10	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 2	U		0.00012	J		< 2	U		< 10	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 10	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0010	U		< 0.00019	U		< 0.0010	U		< 0.0050	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.0050	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.1	U		0.000083	J		< 0.1	U		< 0.5	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.5	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.01	U		< 0.00020	U		< 0.01	U		< 0.05	U		< 0.0098	U		< 0.00020	U		< 0.0098	U		< 0.05	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.5	U		< 0.00020	U		< 0.5	U		< 2.5	U		< 0.0098	U		< 0.00020	U		< 0.0098	U		< 2.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.5	U		< 0.00019	U		< 0.5	U		< 2.5	U		< 0.0094	U		< 0.00019	U		< 0.0094	U		< 2.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 5	U		< 0.0010	UF1	UJ	< 5	U		< 25	U		< 0.02	U		< 0.0010	UF1	UJ	< 0.02	U		< 25	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 1	U		< 0.00019	U		< 1	U		< 5	U		< 0.0095	U		< 0.00019	U		< 0.0095	U		< 5	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0010	U		< 0.00019	U		< 0.0010	U		< 0.0050	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.0050	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.1	U		< 0.00020	U		< 0.1	U		< 0.5	U		< 0.01	U		< 0.00020	U		< 0.01	U		< 0.5	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.0010	U		0.00012	J		< 0.0010	U		< 0.0050	U		< 0.011	U		< 0.00021	U		< 0.011	U		< 0.0050	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.5	U		0.00082	J		< 0.5	U		< 2.5	U		< 0.011	U		< 0.00021	U		< 0.011	U		< 2.5	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.02	U		< 0.00020	U		< 0.02	U		< 0.1	U		< 0.0098	U		< 0.00020	U		< 0.0098	U		< 0.1	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.02	U		< 0.00019	U		< 0.02	U		< 0.1	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.1	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0020	U		0.000089	J		< 0.0020	U		< 0.01	U		< 0.0097	U		< 0.00019	U		< 0.0097	U		< 0.01	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 5	U	UJ	< 0.00010	U		< 2	U	UJ	< 2	U	UJ	--			< 0.00010	U		< 0.010	U		< 2	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 5	U	UJ	< 0.00020	U		< 2	U	UJ	< 2	U	UJ	--			< 0.00020	U		< 0.020	U		< 2	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 25	U		< 0.00050	U		< 10	U		< 10	U		--			< 0.00050	U		< 0.050	U		< 10	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 25	U		< 0.00050	U		< 10	U		< 10	U		--			< 0.00050	U		< 0.050	U		< 10	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 25	U		< 0.00050	U		< 10	U		< 10	U		--			< 0.00050	U		< 0.050	U		< 10	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 25	U		< 0.00010	U		< 10	U		< 10	U		--			< 0.00010	U		< 0.010	U		< 10	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 50	U		< 0.00050	U		< 20	U		< 20	U		--			< 0.00050	U		< 0.050	U		< 20	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.0500	U		< 0.00050	U		< 0.0200	U		< 0.0200	U		--			< 0.00050	U		< 0.050	U		< 0.0200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 25	U		< 0.00010	U		< 10	U		< 10	U		--			< 0.00010	U		< 0.010	U		< 10	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 50	U		< 0.00010	U		< 20	U		< 20	U		--			< 0.00010	U		< 0.010	U		< 20	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 5	U		0.00013			< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 5	U		0.00011			< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 5	U		0.00014			< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0500	U		< 0.00010	U		< 0.0200	U		< 0.0200	U		--			< 0.00010	U		< 0.010	U		< 0.0200	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.5	U		< 0.00010	U		< 0.2	U		< 0.2	U		--			< 0.00010	U		< 0.010	U		< 0.2	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 1.25	U	UJ	< 0.00010	U		< 0.5	U	UJ	< 0.5	U	UJ	--			< 0.00010	U		< 0.010	U		< 0.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0050	U		< 0.00010	U		< 0.0020	U		< 0.0020	U		--			< 0.00010	U		< 0.010	U		< 0.0020	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.5	U		< 0.00010	U		< 0.2	U		< 0.2	U		--			< 0.00010	U		< 0.010	U		< 0.2	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.00010	U		< 5	U		< 5	U		--			< 0.00010	U		< 0.010	U		< 5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 5	U		< 0.00010	U		< 2	U		< 2	U		--			< 0.00010	U		< 0.010	U		< 2	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.5	U	UJ	< 0.00010	U		< 0.2	U	UJ	< 0.2	U	UJ	--			< 0.00010	U		< 0.010	U		< 0.2	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.5	U	UJ	< 0.00010	U		< 0.2	U	UJ	< 0.2	U	UJ	--			< 0.00010	U		< 0.010	U		< 0.2	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.00010	U		< 5	U		< 5	U		--			< 0.00010	U		< 0.010	U		< 5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 25	U		0.00022			< 10	U		< 10	U		--			< 0.00020	U		< 0.020	U		< 10	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.5	U		< 0.00010	U		< 0.2	U		< 0.2	U		--			< 0.00010	U		< 0.010	U		< 0.2	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.00010	U		< 5	U		< 5	U		--			< 0.00010	U		< 0.010	U		< 5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 12.5	U	UJ	< 0.00010	U		< 5	U	UJ	< 5	U	UJ	--			< 0.00010	U		< 0.010	U		< 5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 12.5	U		< 0.00010	U		< 5	U		< 5	U		--			< 0.00010	U		< 0.010	U		< 5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.25	U		< 0.00010	U		< 0.1	U		< 0.1	U		--			< 0.00010	U		< 0.010	U		< 0.1	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.5	U		< 0.00010	U		< 0.2	U		< 0.2	U		--			< 0.00010	U		< 0.010	U		< 0.2	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0500	U		< 0.00010	U		< 0.0200	U		< 0.0200	U		--			< 0.00010	U		< 0.010	U		< 0.0200	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.5	U		< 0.00010	U		< 0.2	U		< 0.2	U		--			< 0.00010	U		< 0.010	U		< 0.2	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				Dichlorodifluoromethane			Diethylphthalate			Dimethylphthalate			Di-n-butylphthalate			Di-n-octylphthalate			Ethyl methacrylate			Ethylbenzene			Fluoranthene		
Screening Criteria (mg/L)				1.4			5.6						0.7			0.14						0.7			0.28		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 10	U	UJ	< 0.011	U		< 0.011	U		< 0.011	U		< 0.011	U		< 10	U	UJ	< 10	U	UJ	0.00062		
GWP-101	GWP101-55-120822	55	12/8/2022	< 2	U		< 0.0099	U		< 0.0099	U		< 0.0099	U		< 0.0099	U		< 2	U		< 2	U		0.00016	J	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 2	U		< 0.0097	JB	U	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 2	U		< 2	U		0.00016	J	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0010	U		< 0.0097	JB	U	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0010	U		0.01			< 0.00019	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.1	U		< 0.0097	JB	U	< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.1	U		< 0.1	U		0.00011	J	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.01	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.01	U		< 0.01	U		0.00011	J	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.5	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.5	U		< 0.5	U		< 0.00020	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.5	U		< 0.0094	U		< 0.0094	U		< 0.0094	U		< 0.0094	U		< 0.5	U		< 0.5	U		< 0.00019	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 5	U		< 0.02	U		< 0.02	U		< 0.02	UF1	UJ	< 0.02	U		< 5	U		< 5	U		< 0.0010	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 1	U		0.00028	J		< 0.0095	U		< 0.0095	U		< 0.0095	U		< 1	U		< 1	U		< 0.00019	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0010	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0010	U		0.00069	J		< 0.00019	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.1	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.1	U		< 0.1	U		< 0.00020	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.0010	U		< 0.011	U		< 0.011	U		< 0.011	U		0.0039	J	J	< 0.0010	U		< 0.0010	U		0.00015	J	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.5	U		< 0.011	U		< 0.011	U		< 0.011	U		< 0.011	U		< 0.5	U		2.4			0.00021		
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.02	U		0.00073	J		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.02	U		0.067			< 0.00020	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.02	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.02	U		0.074			< 0.00019	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0020	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0097	U		< 0.0020	U		0.047			0.00014	J	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 2	U	UJ	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U	UJ	< 2	U	UJ	< 0.00010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 2	U	UJ	< 0.020	U		< 0.020	U		< 0.020	U		< 0.020	U		< 5	U	UJ	< 2	U	UJ	< 0.00020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 10	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 25	U		< 10	U		< 0.00050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 10	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 25	U		< 10	U		< 0.00050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 10	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 25	U		< 10	U		< 0.00050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 10	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 25	U		< 10	U		< 0.00010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 20	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 50	U		< 20	U		< 0.00050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.0200	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.050	U		< 0.0500	U		0.42			< 0.00050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 10	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 25	U		< 10	U		< 0.00010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 20	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 50	U		< 20	U		< 0.00010	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		0.00011		
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		0.00014		
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		0.00021		
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0200	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.0500	U		< 0.0200	U		< 0.00010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U		< 0.2	U		< 0.00010	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.5	U	UJ	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 1.25	U	UJ	< 0.5	U	UJ	< 0.00010	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0020	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.0050	U		0.0111			< 0.00010	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U		< 0.2	U		< 0.00010	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 12.5	U		< 5	U		< 0.00010	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 5	U		< 2	U		< 0.00010	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.2	U	UJ	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U	UJ	< 0.2	U	UJ	< 0.00010	U	
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.2	U	UJ	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U	UJ	< 0.2	U	UJ	< 0.00010	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 12.5	U		< 5	U		< 0.00010	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 10	U		< 0.020	U		< 0.020	U		< 0.020	U		< 0.020	U		< 25	U		< 10	U		< 0.00020	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U		< 0.2	RU		< 0.00010	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 12.5	U		< 5	U		< 0.00010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 5	U	UJ	< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 12.5	U	UJ	< 5	U	UJ	< 0.00010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 5	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 12.5	U		< 5	U		< 0.00010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.1	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.25	U		< 0.1	U		< 0.00010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U		< 0.2	U		< 0.00010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0200	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.0500	U		< 0.0200	U		< 0.00010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.2	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.010	U		< 0.5	U		0.277			< 0.00010	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				Fluorene			Freon 11 (Trichlorofluoromethane)			Hexachlorobenzene			Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indene			Indeno(1,2,3,c,d)pyrene		
Screening Criteria (mg/L)				0.28			2.1			0.00006			0.007			0.05			0.007						0.00043		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	**0.0015**			< 10	U	UJ	< 0.011	U		< 50	U	UJ	< 0.022	U*1		< 0.011	U		**0.0049**	J		**0.000048**	J	
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.00020	U		< 2	U		< 0.0099	U		< 10	U*+		< 0.02	U*1		< 0.0099	U		**0.0049**	J		< 0.00020	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.00019	U		< 2	U		< 0.0097	U		< 10	U*+		< 0.019	U*1		< 0.0097	U		**0.0055**	J		< 0.00019	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.00019	U		< 0.0010	U		< 0.0097	U		< 0.0050	U*+		< 0.019	U*1		< 0.0097	U		< 0.0097	U		< 0.00019	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.00019	U		< 0.1	U		< 0.0097	U		< 0.5	U*+		< 0.019	U*1		< 0.0097	U		< 0.0097	U		< 0.00019	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.00020	U		< 0.01	U		< 0.0098	U		< 0.05	U*+		< 0.02	U*1		< 0.0098	U		< 0.0098	U		< 0.00020	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	**0.00014**	J		< 0.5	U		< 0.0098	U		< 2.5	U		< 0.02	U	UJ	< 0.0098	U		< 0.0098	U		< 0.00020	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	**0.00017**	J		< 0.5	U		< 0.0094	U		< 2.5	U		< 0.019	U	UJ	< 0.0094	U		< 0.0094	U		< 0.00019	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.0010	U		< 5	U		< 0.02	U*+		< 25	U		< 0.04	U		< 0.02	U		**0.0026**	J		< 0.0010	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.00019	U		< 1	U		< 0.0095	U		< 5	U		< 0.019	U	UJ	< 0.0095	U		< 0.0095	U		< 0.00019	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.00019	U		< 0.0010	U		< 0.0097	U		< 0.0050	U		< 0.019	U	UJ	< 0.0097	U		< 0.0097	U		< 0.00019	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.00020	U		< 0.1	U		< 0.01	U		< 0.5	U		< 0.02	U	UJ	< 0.01	U		< 0.01	U		< 0.00020	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.00021	U		< 0.0010	U		< 0.011	U		< 0.0050	U		< 0.021	U		< 0.011	U		< 0.011	U		< 0.00021	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.00021	U		< 0.5	U		< 0.011	U		< 2.5	U		< 0.021	U		< 0.011	U		< 0.011	U		< 0.00021	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.00020	U		< 0.02	U		< 0.0098	U		< 0.1	U		< 0.02	U		< 0.0098	U		< 0.0098	U		< 0.00020	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.00019	U		< 0.02	U		< 0.0097	U		< 0.1	U		< 0.019	U		< 0.0097	U		< 0.0097	U		< 0.00019	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.00019	U		< 0.0020	U		< 0.0097	U		< 0.01	U		< 0.019	U		< 0.0097	U		< 0.0097	U		< 0.00019	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	**0.00010**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.00010	U		< 5	U	UJ	< 0.010	U		< 0.01	U	UJ	< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.00010	U		< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	**0.00032**			< 5	U	UJ	< 0.020	U		< 0.020	U	UJ	< 0.040	U		< 0.020	U		--			< 0.00020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.00010	U		< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	**0.00018**			< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	**0.00017**			< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	**0.00016**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	**0.00015**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	**0.00042**			< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	**0.00130**			< 25	U		< 0.050	U		< 0.05	U		< 0.100	U		< 0.050	U		--			< 0.00050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	**0.00125**			< 25	U		< 0.050	U		< 0.05	U		< 0.100	U		< 0.050	U		--			< 0.00050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.00050	U		< 25	U		< 0.050	U		< 0.05	U		< 0.100	U		< 0.050	U		--			< 0.00050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.00010	U		< 25	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.00050	U		< 50	U		< 0.050	U		< 0.05	U		< 0.100	U		< 0.050	U		--			< 0.00050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	**0.00024**			< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	**0.00032**			< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	**0.00065**			< 0.0500	U		< 0.050	U		< 0.05	U		< 0.100	U		< 0.050	U		--			< 0.00050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	**0.00020**			< 25	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	**0.00044**			< 50	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	**0.00149**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	**0.00135**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	**0.00190**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	**0.00081**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.00010	U		< 0.0500	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	**0.00101**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	**0.00148**			< 0.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	**0.00041**			< 1.25	U	UJ	< 0.010	U		< 0.01	U	UJ	< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	**0.00248**			< 0.0050	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	**0.00069**			< 0.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	**0.00059**			< 12.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	**0.00130**			< 5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	**0.00111**			< 0.5	U	UJ	< 0.010	U		< 0.01	U	UJ	< 0.020	U	UJ	< 0.010	U		--			< 0.00010	U	
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	**0.00114**			< 0.5	U	UJ	< 0.010	U		< 0.01	U	UJ	< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	**0.00030**			< 12.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	**0.00118**			< 25	U		< 0.020	U		< 0.020	U		< 0.040	U		< 0.020	SU		--			< 0.00020	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	**0.00091**			< 0.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	**0.00027**			< 12.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	**0.00023**			< 12.5	U	UJ	< 0.010	U		< 0.01	U	UJ	< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	**0.00011**			< 12.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.00010	U		< 0.25	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.00010	U		< 0.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	**0.00034**			< 0.0500	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	**0.00011**			< 0.5	U		< 0.010	U		< 0.01	U		< 0.020	U		< 0.010	U		--			< 0.00010	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Isophorone			Isopropylbenzene (Cumene)			m,p-Xylene			Methyl Tert-butyl Ether (MTBE)			Dichloromethane (Methylene Chloride)			Naphthalene			n-Butylbenzene			Nitrobenzene		
Screening Criteria (mg/L)				1.4			0.7			10			0.07			0.005			0.14			0.35			0.014		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		< 10	U	UJ	< 50	U	UJ	< 10	U	UJ	< 50	U	UJ	< 50	U	UJ	< 10	U	UJ	< 0.011	U	
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		< 2	U		< 10	U		< 2	U		< 10	U		< 10	U		< 2	U		< 0.0099	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		< 2	U		< 10	U		< 2	U		< 10	U		< 10	U		< 2	U		< 0.0097	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		0.00076	J		0.016			0.00083	J		< 0.0050	U		< 0.0050	U		< 0.0010	U		< 0.0097	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		< 0.1	U		< 0.5	U		< 0.1	U		< 0.5	U		< 0.5	U		< 0.1	U		< 0.0097	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		< 0.01	U		< 0.05	U		< 0.01	U		< 0.05	U		< 0.05	U		< 0.01	U		< 0.0098	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U	UJ	< 0.5	U		< 2.5	U		0.13	J		< 2.5	U		< 2.5	U		< 0.5	U		< 0.0098	U	UJ
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U	UJ	< 0.5	U		< 2.5	U		< 0.5	U		< 2.5	U		< 2.5	U		< 0.5	U		< 0.0094	U	UJ
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	U		< 5	U		< 25	U		< 5	U		< 25	U		< 25	U		< 5	U		< 0.02	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U	UJ	< 1	U		< 5	U		< 1	U		< 5	U		< 5	U		< 1	U		< 0.0095	U	UJ
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U	UJ	< 0.0010	U		< 0.0050	U		0.00060	J		< 0.0050	U		< 0.0050	U		< 0.0010	U		< 0.0097	U	UJ
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U	UJ	< 0.1	U		< 0.5	U		< 0.1	U		< 0.5	U		< 0.5	U		< 0.1	U		< 0.01	U	UJ
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U		< 0.0010	U		< 0.0050	U		0.0016			< 0.0050	U		< 0.0050	U		< 0.0010	U		< 0.011	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U		< 0.5	U		5.4			< 0.5	U		< 2.5	U		< 2.5	U		< 0.5	U		< 0.011	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U		< 0.02	U		0.15			0.0048	J		< 0.1	U		< 0.1	U		< 0.02	U		< 0.0098	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U		< 0.02	U		0.16			< 0.02	U		< 0.1	U		< 0.1	U		< 0.02	U		< 0.0097	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U		0.0017	J		0.11			< 0.0020	U		< 0.01	U		0.0071	J		< 0.0020	U		< 0.0097	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U	UJ	0.0290	B		< 2	U		< 0.010	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 5	U	UJ	< 2	U	UJ	< 0.010	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U	UJ	0.0220	B		< 2	U		< 0.010	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 5	U	UJ	< 2	U	UJ	< 0.020	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0107	B		< 20	U		< 0.010	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0794	B		< 20	U		< 0.010	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U		0.0152	U		< 20	U		< 0.010	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U	UJ	0.0108	B		< 2	U		< 0.010	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U	UJ	0.0111	B		< 2	U		< 0.010	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0853	B		< 20	U		< 0.010	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.050	U		< 10	U		< 10	U		< 10	U		< 10	U	UJ	0.0449	U		< 10	U		< 0.050	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.050	U		< 10	U		< 10	U		< 10	U		< 10	U	UJ	0.0446	U		< 10	U		< 0.050	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 10	U		< 10	U		< 10	U		< 10	U	UJ	0.0127	U		< 10	U		< 0.050	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 10	U		< 10	U		< 10	U		< 10	U	UJ	< 0.00070	BU		< 10	U		< 0.010	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.050	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0385	U		< 20	U		< 0.050	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0674	B		< 20	U		< 0.010	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0198	B		< 20	U		< 0.010	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.050	U		0.0294			0.712			< 0.0200	U		< 0.0200	U		0.0560			< 0.0200	U		< 0.050	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.010	U		< 10	U		< 10	U		< 10	U		< 10	U	UJ	0.0256	B		< 10	U		< 0.010	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.010	U		< 20	U		< 20	U		< 20	U		< 20	U	UJ	0.0819	B		< 20	U		< 0.010	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U		0.0335			< 2	U		< 0.010	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U		0.0292			< 2	U		< 0.010	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U	UJ	0.00207			< 2	U		< 0.010	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U		0.0408			< 2	U		< 0.010	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.010	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	UJ	0.00065			< 0.0200	U		< 0.010	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U		0.00919			< 2	U		< 0.010	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.2	U		1.02			< 0.2	U		< 0.2	U	UJ	0.0508	U		< 0.2	U		< 0.010	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.010	U		< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 1.25	U	UJ	< 0.5	U	UJ	< 0.010	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		0.0341			0.0034			< 0.0020	U		< 0.0020	U	UJ	0.0159			< 0.0020	U		< 0.010	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.2	U		1.22			< 0.2	U		< 0.2	U	UJ	0.0708			< 0.2	U		< 0.010	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 5	U		< 5	U		< 5	U		< 5	U	UJ	< 12.5	U	UJ	< 5	U		< 0.010	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.010	U		< 2	U		< 2	U		< 2	U		< 2	U	UJ	0.0747			< 2	U		< 0.010	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.010	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.5	U	UJ	< 0.2	U	UJ	< 0.010	U	
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.010	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.5	U	UJ	< 0.2	U	UJ	< 0.010	U	
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 5	U		< 5	U		< 5	U		< 5	U	UJ	0.0298			< 5	U		< 0.010	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 10	U		< 10	U		< 10	U		< 10	U	UJ	0.0594			< 10	U		< 0.020	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.010	U		< 0.2	U		< 0.2	RU		< 0.2	U		< 0.2	U	UJ	0.0672			< 0.2	U		< 0.010	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 5	U		< 5	U		< 5	U		< 5	U	UJ	< 12.5	U	UJ	< 5	U		< 0.010	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 12.5	U	UJ	< 5	U	UJ	< 0.010	U	
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.010	U		< 5	U		< 5	U		< 5	U		< 5	U	UJ	0.0137			< 5	U		< 0.010	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		0.00168			< 0.1	U		< 0.010	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		0.00174			< 0.2	U		< 0.010	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		0.00069			< 0.0200	U		< 0.010	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.010	U		< 0.2	U		0.476			< 0.2	U		< 0.2	U		0.0198			< 0.2	U		< 0.010	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 1
Pre-SEE Groundwater Analytical Results

				N-Nitrosodimethylamine			N-Nitroso-di-n-Butylamine			N-Nitrosodiphenylamine			N-Nitrosodipropylamine			n-Propylbenzene			o-Xylene			Pentachlorophenol			Phenanthrene		
Screening Criteria (mg/L)				0.0000017			0.0018			0.0032						0.7						0.001			0.21		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 0.011	U		--			< 0.011	U		< 0.011	U		< 10	U	UJ	< 50	U	UJ	< 0.022	U		0.0073		
GWP-101	GWP101-55-120822	55	12/8/2022	< 0.0099	U		--			< 0.0099	U		< 0.0099	U		< 2	U		< 10	U		< 0.02	U		0.00061		
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 0.0097	U		--			< 0.0097	U		< 0.0097	U		< 2	U		< 10	U		< 0.019	U		0.00027		
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0097	U		--			< 0.0097	U		< 0.0097	U		0.0012			0.0068			< 0.019	U		< 0.00019	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.0097	U		--			< 0.0097	U		< 0.0097	U		< 0.1	U		< 0.5	U		< 0.019	U		0.000067	J	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.0098	U		--			< 0.0098	U		< 0.0098	U		< 0.01	U		< 0.05	U		< 0.02	U		0.00012	J	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.0098	U		--			< 0.0098	U	UJ	< 0.0098	U		< 0.5	U		< 2.5	U		< 0.02	U		0.000082	J	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.0094	U		--			< 0.0094	U	UJ	< 0.0094	U		< 0.5	U		< 2.5	U		< 0.019	U		0.00014	J	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 0.02	U		--			< 0.02	U		< 0.02	U		< 5	U		< 25	U		< 0.04	U		< 0.0010	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 0.0095	U		--			< 0.0095	U	UJ	< 0.0095	U		< 1	U		< 5	U		< 0.019	U		< 0.00019	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0097	U		--			< 0.0097	U	UJ	< 0.0097	U		< 0.0010	U		< 0.0050	U		< 0.019	U		< 0.00019	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.01	U		--			< 0.01	U	UJ	< 0.01	U		< 0.1	U		< 0.5	U		< 0.02	U		< 0.00020	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U		--			< 0.011	U		< 0.011	U		< 0.0010	U		< 0.0050	U		0.0087	J		< 0.00021	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.011	U		--			< 0.011	U		< 0.011	U		< 0.5	U		1.9	J		0.0079	J		0.0030		
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.0098	U		--			< 0.0098	U		< 0.0098	U		< 0.02	U		0.054	J		< 0.02	U		< 0.00020	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.0097	U		--			< 0.0097	U		< 0.0097	U		< 0.02	U		0.068	J		< 0.019	U		0.000073	J	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0097	U		--			< 0.0097	U		< 0.0097	U		0.0047			0.038			< 0.019	U		0.000081	J	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00022		J
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U	UJ	< 2	U	UJ	< 0.020	U		< 0.00020	U	
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		< 0.00020	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.040	U		< 0.020	U		< 0.020	U		--			< 2	U	UJ	< 2	U	UJ	< 0.040	U		< 0.00040	U	
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		< 0.00020	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		< 0.00020	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		< 0.00020	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		< 0.00020	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		< 0.00020	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		0.00027		J
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 0.100	U		< 0.050	U		< 0.050	U		--			< 10	U		< 10	U		< 0.100	U		0.00165		
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 0.100	U		< 0.050	U		< 0.050	U		--			< 10	U		< 10	U		< 0.100	U		0.00150		
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 0.100	U		< 0.050	U		< 0.050	U		--			< 10	U		< 10	U		< 0.100	U		< 0.00100	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 10	U		< 10	U		< 0.020	U		< 0.00020	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 0.100	U		< 0.050	U		< 0.050	U		--			< 20	U		< 20	U		< 0.100	U		< 0.00100	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		0.00028		J
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		0.00026		J
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.100	U		< 0.050	U		< 0.050	U		--			0.0676			0.0353			< 0.100	U		< 0.00100	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 10	U		< 10	U		< 0.020	U		0.00021		J
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 20	U		< 20	U		< 0.020	U		0.00053		J
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00377		
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00325		
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00515		
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00097		
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.0200	U		< 0.0200	U		< 0.020	U		< 0.00020	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00096		
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U		0.492			< 0.020	U		0.00152		
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.5	U	UJ	< 0.5	U	UJ	< 0.020	U		< 0.00020	U	
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			0.0743			< 0.0020	U		< 0.020	U		0.00107		
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U		0.289			< 0.020	U		0.00060		
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 5	U		< 5	U		< 0.020	U		0.00059		
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 2	U		< 2	U		< 0.020	U		0.00082		
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U	UJ	< 0.2	U	UJ	< 0.020	U	UJ	0.00083		
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U	UJ	< 0.2	U	UJ	< 0.020	U		0.00075		
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 5	U		< 5	U		< 0.020	U		< 0.00020	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 0.040	U		< 0.020	U		< 0.020	U		--			< 10	U		< 10	U		< 0.040	U		0.00188		
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U		< 0.2	RU		< 0.020	U		0.00034		
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 5	U		< 5	U		< 0.020	U		< 0.00020	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 5	U	UJ	< 5	U	UJ	< 0.020	U		0.00020		
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 5	U		< 5	U		< 0.020	U		< 0.00020	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.1	U		< 0.1	U		< 0.020	U		< 0.00020	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U		< 0.2	U		< 0.020	U		< 0.00020	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.0200	U		< 0.0200	U		< 0.020	U		< 0.00020	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.020	U		< 0.010	U		< 0.010	U		--			< 0.2	U		< 0.2	U		< 0.020	U		< 0.00020	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Phenol			p-Isopropyltoluene			Pyrene			Pyridine			Quinoline			sec-Butylbenzene			Styrene			tert-Butylbenzene		
Screening Criteria (mg/L)				0.1						0.21			0.007						0.7			0.1			0.7		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	0.39			< 10	U	UJ	0.0046			< 0.011	U	UJ	< 0.011	U		< 10	U	UJ	< 10	U	UJ	< 10	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	0.3		J	< 2	U		0.00034			< 0.0099	U	UJ	< 0.0099	U		< 2	U		< 2	U		< 2	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	0.18		J	< 2	U		0.00017	J		< 0.0097	U	UJ	< 0.0097	U		< 2	U		< 2	U		< 2	U	
GWP-101	GWP101-65-120822	65	12/8/2022	0.037			< 0.0010	U		< 0.00019	U		< 0.0097	U	UJ	< 0.0097	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
GWP-101	GWP101-75-120822	75	12/8/2022	0.086			< 0.1	U		0.000092	J		< 0.0097	U	UJ	< 0.0097	U		< 0.1	U		< 0.1	U		< 0.1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	0.016			< 0.01	U		0.00016	J		< 0.0098	U	UJ	< 0.0098	U		< 0.01	U		< 0.01	U		< 0.01	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	0.14		J	< 0.5	U		< 0.00020	U		< 0.0098	U	UJ	< 0.0098	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	0.076		J	< 0.5	U		< 0.00019	J	U	< 0.0094	U	UJ	< 0.0094	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	0.45	F1		< 5	U		< 0.0010	U		< 0.02	U	UJ	< 0.02	U		< 5	U		< 5	U		< 5	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	0.14			< 1	U		< 0.00019	U		< 0.0095	U	UJ	< 0.0095	U		< 1	U		< 1	U		< 1	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	0.0097			< 0.0010	U		0.000056	J		< 0.0097	U	UJ	< 0.0097	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	0.41			< 0.1	U		< 0.00020	U		< 0.01	U	UJ	< 0.01	U		< 0.1	U		< 0.1	U		< 0.1	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.011	U		< 0.0010	U		0.00014	J		< 0.011	U		< 0.011	U		< 0.0010	U		< 0.0010	U		< 0.0010	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	0.3			< 0.5	U		0.00094	J		< 0.011	U		< 0.011	U		< 0.5	U		< 0.5	U		< 0.5	U	
SVP-09-70	SVP09-70-010623	70	1/6/2023	0.036			< 0.02	U		< 0.00020	U		< 0.0098	U		< 0.0098	U		< 0.02	U		< 0.02	U		< 0.02	U	
SVP-09-80	SVP09-80-010623	80	1/6/2023	0.041			< 0.02	U		< 0.00019	U		< 0.0097	U		< 0.0097	U		< 0.02	U		< 0.02	U		< 0.02	U	
SVP-09-90	SVP09-90-010623	90	1/6/2023	0.0073	J		< 0.0020	U		0.00011	J		< 0.0097	U		< 0.0097	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	0.202			< 2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	0.033			< 2	U	UJ	< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	0.052			< 2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	0.098			< 2	U	UJ	< 0.00020	U		< 0.040	U		< 0.010	SU		< 2	U	UJ	< 2	U	UJ	< 2	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	0.122			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	0.101			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	0.053			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	0.318			< 2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	0.290			< 2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	0.153			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	0.085			< 10	U		< 0.00050	U		< 0.100	U		< 0.025	U		< 10	U		< 10	U		< 10	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	0.070			< 10	U		< 0.00050	U		< 0.100	U		< 0.025	U		< 10	U		< 10	U		< 10	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	0.156			< 10	U		< 0.00050	U		< 0.100	U		< 0.025	U		< 10	U		< 10	U		< 10	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	0.113			< 10	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 10	U		< 10	U		< 10	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	0.128			< 20	U		< 0.00050	U		< 0.100	U		< 0.025	U		< 20	U		< 20	U		< 20	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	0.031			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	0.063			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	0.298			< 0.0200	U		< 0.00050	U		< 0.100	U		< 0.025	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	0.016			< 10	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 10	U		< 10	U		< 10	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	0.048			< 20	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 20	U		< 20	U		< 20	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	0.082		J	< 2	U		0.00058			< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	0.133		J	< 2	U		0.00051			< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	0.020			< 2	U		0.00133			< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	0.043			< 2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	0.008			< 0.0200	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.005	U		< 2	U		0.00044			< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	0.049			< 0.2	U		0.00049			< 0.020	U		< 0.005	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	0.103			< 0.5	U	UJ	< 0.00010	U		< 0.020	U		< 0.005	U		< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.005	U		0.0264			0.00033			< 0.020	U		< 0.005	U		0.0241			< 0.0020	U		0.0277		
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	0.046			< 0.2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	0.188			< 5	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 5	U		< 5	U		< 5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.005	U		< 2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 2	U		< 2	U		< 2	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	0.053		J	< 0.2	U	UJ	0.00014			< 0.020	U		< 0.005	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	0.108	H	J	< 0.2	U	UJ	0.00017	H		< 0.020	U		< 0.005	U		< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	0.099			< 5	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 5	U		< 5	U		< 5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	0.084	S	J	< 10	U		0.00054			< 0.040	U		< 0.010	U		< 10	U		< 10	U		< 10	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	0.012			< 0.2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	0.259			< 5	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 5	U		< 5	U		< 5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	0.018			< 5	U	UJ	< 0.00010	U		< 0.020	U		< 0.005	U		< 5	U	UJ	< 5	U	UJ	< 5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	0.089			< 5	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 5	U		< 5	U		< 5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	0.013			< 0.1	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 0.1	U		< 0.1	U		< 0.1	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	0.019			< 0.2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 0.2	U		< 0.2	U		< 0.2	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	0.006			< 0.0200	U		0.00020			< 0.020	U		< 0.005	U		< 0.0200	U		< 0.0200	U		< 0.0200	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	0.087			< 0.2	U		< 0.00010	U		< 0.020	U		< 0.005	U		< 0.2	U		< 0.2	U		< 0.2	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			trans-1,3-Dichloropropene			Trichloroethene			Vinyl Acetate			Vinyl Chloride		
Screening Criteria (mg/L)				0.005			1			0.1						0.005			7			0.002		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 10	U	UJ	< 10	U	UJ	< 10	U	UJ	< 50	U	UJ	< 10	U	UJ	< 250	U	UJ	< 10	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 2	U		6.7			< 2	U		< 10	U		< 2	U		< 50	U		< 2	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 2	U		6.1			< 2	U		< 10	U		< 2	U		< 50	U		< 2	U	
GWP-101	GWP101-65-120822	65	12/8/2022	< 0.0010	U		0.049			< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.025	U		< 0.0010	U	
GWP-101	GWP101-75-120822	75	12/8/2022	< 0.1	U		0.086	J		< 0.1	U		< 0.5	U		< 0.1	U		< 2.5	U		< 0.1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.01	U		0.0082	J		< 0.01	U		< 0.05	U		< 0.01	U		< 0.25	U		< 0.01	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U		< 13	U		< 0.5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 0.5	U		< 0.5	U		< 0.5	U		< 2.5	U		< 0.5	U		< 13	U		< 0.5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 5	U		< 5	U		< 5	U		< 25	U		< 5	U		< 130	U		< 5	U	UJ
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 1	U		< 1	U		< 1	U		< 5	U		< 1	U		< 25	U		< 1	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.0010	U		0.00056	J		< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.025	U		< 0.0010	U	UJ
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 0.1	U		< 0.1	U		< 0.1	U		< 0.5	U		< 0.1	U		< 2.5	U		< 0.1	U	UJ
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.0010	U		< 0.0010	U		< 0.0010	U		< 0.0050	U		< 0.0010	U		< 0.025	U		< 0.0010	U*+	
SVP-09-60	SVP09-60-010623	60	1/6/2023	< 0.5	U		1.1			< 0.5	U		< 2.5	U		< 0.5	U		< 13	U		< 0.5	U*+	
SVP-09-70	SVP09-70-010623	70	1/6/2023	< 0.02	U		0.031			< 0.02	U		< 0.1	U		< 0.02	U		< 0.5	U		< 0.02	U*+	
SVP-09-80	SVP09-80-010623	80	1/6/2023	< 0.02	U		0.047			< 0.02	U		< 0.1	U		< 0.02	U		< 0.5	U		< 0.02	U*+	
SVP-09-90	SVP09-90-010623	90	1/6/2023	< 0.0020	U		0.016			< 0.0020	U		< 0.01	U		< 0.0020	U		< 0.05	U		< 0.0020	U*+	
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 0.5	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 5	U	UJ	< 2	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 0.5	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 2	U	UJ	< 5	U	UJ	< 2	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 2.5	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U		< 10	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 2.5	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U		< 10	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 2.5	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U		< 10	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 2.5	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U		< 10	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	< 0.0050	U		0.0276			< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0500	U		< 0.0200	U	
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 2.5	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U		< 10	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 5	U		< 20	U		< 20	U		< 20	U		< 20	U		< 50	U		< 20	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0050	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0500	U		< 0.0200	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U		< 0.2	U	
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 0.125	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 0.5	U	UJ	< 1.25	U	UJ	< 0.5	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0005	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0050	U		< 0.0020	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U		< 0.2	U	
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 1.25	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U		< 5	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 0.5	U		< 2	U		< 2	U		< 2	U		< 2	U		< 5	U		< 2	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.0500	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.5	U	UJ	< 0.2	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.0500	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.2	U	UJ	< 0.5	U	UJ	< 0.2	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 1.25	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U		< 5	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 2.5	U		< 10	U		< 10	U		< 10	U		< 10	U		< 25	U		< 10	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.0500	RU		< 0.2	RU		< 0.2	U		< 0.2	U		< 0.2	RU		< 0.5	U		< 0.2	RU	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 1.25	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U		< 5	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 1.25	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 5	U	UJ	< 12.5	U	UJ	< 5	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 1.25	U		< 5	U		< 5	U		< 5	U		< 5	U		< 12.5	U		< 5	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.0250	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.1	U		< 0.25	U		< 0.1	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.0500	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U		< 0.2	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0050	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0200	U		< 0.0500	U		< 0.0200	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	< 0.0500	U		0.472			< 0.2	U		< 0.2	U		< 0.2	U		< 0.5	U		< 0.2	U	

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Table 1
Pre-SEE Groundwater Analytical Results

				Xylenes, Total		
			Screening Criteria (mg/L)	10		
Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Result (mg/L)	Lab Quals	AECOM Quals
GWP-101	GWP101-45-120822	45	12/8/2022	< 100	U	UJ
GWP-101	GWP101-55-120822	55	12/8/2022	< 20	U	
GWP-101	GWP101-55-120822-DUP	55	12/8/2022	< 20	U	
GWP-101	GWP101-65-120822	65	12/8/2022	**0.023**		
GWP-101	GWP101-75-120822	75	12/8/2022	< 1	U	
GWP-101	GWP101-85-120822	85	12/8/2022	< 0.1	U	
SVP-07-50	SVP07-50-121522	50	12/15/2022	< 5	U	
SVP-07-50	SVP07-50-121522-DUP	50	12/15/2022	< 5	U	
SVP-07-60	SVP07-60-121522	60	12/15/2022	< 50	U	
SVP-07-70	SVP07-70-121522	70	12/15/2022	< 10	U	
SVP-07-80	SVP07-80-121522	80	12/15/2022	< 0.01	U	
SVP-07-90	SVP07-90-121522	90	12/15/2022	< 1	U	
SVP-09-50	SVP09-50-010623	50	1/6/2023	< 0.01	U	
SVP-09-60	SVP09-60-010623	60	1/6/2023	**7.3**		
SVP-09-70	SVP09-70-010623	70	1/6/2023	**0.2**		
SVP-09-80	SVP09-80-010623	80	1/6/2023	**0.23**		
SVP-09-90	SVP09-90-010623	90	1/6/2023	**0.15**		
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	< 4	U	
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	< 4	U	UJ
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	< 4	U	
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	< 4	U	UJ
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	< 40	U	
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	< 40	U	
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	< 40	U	
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	< 4	U	
X-AD5	XAD5-PWY-062623-DUP	24 - 57	6/26/2023	< 4	U	
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	< 40	U	
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	< 20	U	
X-AF3	XAF3-PWY-062323-DUP	24.2 - 57.2	6/23/2023	< 20	U	
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	< 20	U	
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	< 20	U	
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	< 40	U	
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	< 40	U	
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	< 40	U	
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	**0.747**		
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	< 20	U	
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	< 40	U	
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	< 4	U	
X-BB2	XBB2-PWY-062923-DUP	24 - 57	6/29/2023	< 4	U	
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	< 4	U	
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	< 4	U	
X-BC3	XBC3-PWY-072823	24 - 57	7/28/2023	< 0.0400	U	
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	< 4	U	
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	**1.51**		
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	< 1	U	UJ
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	< 0.0040	U	
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	**1.51**		
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	< 10	U	
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	< 4	U	
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	< 0.4	U	UJ
X-BF2	XBF2-PWY-072423-DUP	24 - 57	7/24/2023	< 0.4	U	UJ
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	< 10	U	
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	< 20	U	
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	< 0.4	RU	
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	< 10	U	
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	< 10	U	UJ
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	< 10	U	
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	< 0.2	U	
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	< 0.4	U	
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	< 0.0400	U	
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	**0.625**		

Notes

Screening criteria are from one of the three below sources. The lowest applicable value was selected for each analyte:
35 I A.C. 620, Subpart D.
35 I A.C. 742 (TACO), Appendix B, Table E.
L EPA Toxicity Assessment Unit (Chemicals not in TACO, Tier 1 Tables).

Blank screening criteria cell indicates analyte does not have a screening criterion.
Samples at GWP-101, SVP-07 and SVP-09 were groundwater profile samples collected from borings during drilling.

Indicates an exceedance of screening criteria.
-- Empty cell without a value indicates result was rejected or the analyte was not analyzed.
Bold results are detections above the reporting limit (RL), or estimated detections between the method detection limit (MDL) and RL.
< # ## Gray text indicates the analyte was not detected above the given reporting limit.

LABORATORY QUALIFIERS
U = The analyte was not detected above the reportling limit.
J = The analyte was detected below the reporting limit. Result is estimated.
B = Target analyte was identified in the method blank, indicating possible lab contamination.
E = Value above quantitation range
H = Analyzed or extracted out of holding time criteria.
R = Relative percent difference (RPD) outside accepted recovery limits
F1 = Indicates matrix spike/matrix spike duplicate (MS/MSD) is outside acceptance limit.
F2 = Indicates MS/MSD RPD exceeds control limits
S = Spike recovery outside recovery limits
*+ = Indicates laboratory control spike (LCS) and/or LCS duplicate (LCSD) is outside acceptance limit, high biased
*1 = LCS/LCSD RPD is outside contol limit

AECOM QUALIFIERS
J = The result is estimated.
UJ = Estimated non-detect.
U = Result is non-detect.

SEE LAST PAGE OF TABLE FOR NOTES

Table 2
Pre-SEE Groundwater Field Parameters

Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Dissolved Oxygen	Oxidation Reduction Potential	pH	Specific Conductivity	Temperature	Turbidity
				mg/L	mV	SU	mS/cm	degC	NTU
GWP-101	GWP101-45-120822	45	12/8/2022	1.10	-149.2	7.02	1.46	14.7	1272
GWP-101	GWP101-55-120822	55	12/8/2022	0.23	-191.2	6.71	1.30	15.4	638
GWP-101	GWP101-65-120822	65	12/8/2022	0.28	-197.5	6.84	1.19	16.1	651
GWP-101	GWP101-75-120822	75	12/8/2022	0.16	-467.4	7.16	0.83	16.0	805
GWP-101	GWP101-85-120822	85	12/8/2022	0.22	-521.1	7.43	0.74	16.7	1677
SVP-07	SVP07-50-121522	50	12/15/2022	0.38	-155.8	6.93	0.74	20.1	370
SVP-07	SVP07-60-121522	60	12/15/2022	0.21	-181.2	7.11	1.35	17.4	1730
SVP-07	SVP07-70-121522	70	12/15/2022	0.23	-153.6	6.95	1.21	18.7	650
SVP-07	SVP07-80-121522	80	12/15/2022	0.23	-389.6	7.17	1.07	16.8	2270
SVP-07	SVP07-90-121522	90	12/15/2022	0.24	-351.7	7.11	0.92	18.1	696
SVP-09	SVP09-50-010623	50	1/6/2023	0.82	-166.8	7.15	0.47	17.2	241
SVP-09	SVP09-60-010623	60	1/6/2023	6.77	-100.0	6.77	1.16	17.2	1000
SVP-09	SVP09-70-010623	70	1/6/2023	0.67	-124.3	7.13	0.97	17.5	350
SVP-09	SVP09-80-010623	80	1/6/2023	0.66	-131.8	7.08	0.95	17.3	740
SVP-09	SVP09-90-010623	90	1/6/2023	0.30	-190.0	7.30	0.74	17.6	1483
X-AA0	XAA0-PWY-062623	24 - 57	6/26/2023	0.34	-146.5	7.04	1.11	22.2	48.6
X-AA2	XAA2-PWY-062823	24 - 57	6/28/2023	0.19	-121.6	7.06	0.81	20.5	98.8
X-AB1	XAB1-PWY-062623	24 - 57	6/26/2023	0.38	-103.0	6.60	1.21	22.9	32.8
X-AB4	XAB4-PWY-062823	24 - 57	6/28/2023	0.26	-131.4	7.10	0.95	20.0	14.6
X-AC3	XAC3-PWY-062623	24.1 - 57.1	6/26/2023	0.44	-127.2	6.82	1.26	21.7	56.2
X-AC5	XAC5-PWY-062623	24.2 - 57.2	6/26/2023	0.24	-155.4	6.98	1.25	19.8	30.0
X-AD2	XAD2-PWY-062823	24 - 57	6/28/2023	0.34	-113.2	6.81	1.30	20.3	22.6
X-AD5	XAD5-PWY-062623	24 - 57	6/26/2023	0.25	-147.0	7.12	0.96	19.3	20.9
X-AE4	XAE4-PWY-062623	24.1 - 57.1	6/26/2023	0.31	-125.9	6.98	1.06	20.2	112
X-AF3	XAF3-PWY-062323	24.2 - 57.2	6/23/2023	0.28	129.5	6.86	1.31	21.2	10.5
X-AF4	XAF4-PWY-062323	24 - 57	6/23/2023	0.19	-143.4	7.35	1.23	21.2	47.0
X-AF6	XAF6-PWY-062723	24 - 57	6/27/2023	0.30	-117.7	7.82	0.57	20.8	12.8
X-AG5	XAG5-PWY-062323	24 - 57	6/23/2023	0.20	-144.4	6.97	1.25	20.9	53.6
X-AG7	XAG7-PWY-062723	24 - 57	6/27/2023	0.60	-104.1	6.76	1.17	22.1	33.9
X-AH5	XAH5-PWY-062723	24 - 57	6/27/2023	0.41	-111.1	6.83	1.15	21.6	39.8
X-AH7	XAH7-PWY-062323	24 - 57	6/23/2023	0.15	140.0	6.99	1.25	23.4	12.6
X-AI6	XAI6-PWY-062723	24.1 - 57.1	6/27/2023	0.26	-106.8	6.80	1.17	21.3	90.7
X-AJ8	XAJ8-PWY-062723	24 - 57	6/27/2023	0.32	-115.3	6.68	1.41	21.9	30.7
X-BB2	XBB2-PWY-062923	24 - 57	6/29/2023	0.05	-231.8	7.12	0.63	27.2	13.2
X-BC1	XBC1-PWY-062823	24 - 57	6/28/2023	0.28	-121.3	7.29	1.11	22.6	33.4
X-BC2	XBC2-PWY-062923	24 - 57	6/29/2023	0.06	-271.8	7.30	0.72	28.1	22.9
X-BC3	XBC3-PWY-072823	24 - 57	7/23/2023	2.06	44.2	7.44	0.88	24.5	11.0
X-BD1	XBD1-PWY-062923	24 - 57	6/29/2023	0.21	-146.9	7.77	0.84	23.2	76.3

SEE LAST PAGE OF TABLE FOR NOTES

Table 2
Pre-SEE Groundwater Field Parameters

Location	Sample ID	Depth or Screen Interval (ft bgs)	Sample Date	Dissolved Oxygen	Oxidation Reduction Potential	pH	Specific Conductivity	Temperature	Turbidity
				mg/L	mV	SU	mS/cm	degC	NTU
X-BD2	XBD2-PWY-072423	24 - 57	7/24/2023	0.21	-142.6	7.23	1.93	26.6	12.0
X-BD3	XBD3-PWY-072823	24.1 - 57.1	7/28/2023	0.25	-162.5	7.20	1.13	26.9	33.0
X-BE1	XBE1-PWY-063023	24 - 57	6/30/2023	0.16	-315.6	7.84	0.80	20.4	10.3
X-BE2	XBE2-PWY-072423	24.1 - 57.1	7/24/2023	0.16	-47.5	7.74	1.23	24.6	68.4
X-BE3	XBE3-PWY-072623	24 - 57	7/26/2023	0.19	-171.6	7.10	2.02	27.2	33.7
X-BF1	XBF1-PWY-063023	24 - 57	6/30/2023	0.18	-88.5	7.44	0.70	20.5	13.1
X-BF2	XBF2-PWY-072423	24 - 57	7/24/2023	0.24	15.7	7.71	1.33	23.4	48.4
X-BF3	XBF3-PWY-072623	24 - 57	7/26/2023	0.51	-167.2	7.13	1.17	24.9	48.1
X-BG1	XBG1-PWY-063023	24 - 57	6/30/2023	0.23	-169.7	7.64	0.78	21.8	41.5
X-BG2	XBG2-PWY-072423	24.1 - 57.1	7/24/2023	0.12	-111.2	7.56	0.94	22.2	90.1
X-BG3	XBG3-PWY-072623	24 - 57	7/26/2023	0.22	-199.9	7.41	1.44	25.2	53.2
X-BH2	XBH2-PWY-072623	24 - 57	7/26/2023	0.52	-96.4	7.14	1.01	22.4	21.8
X-BH3	XBH3-PWY-072623	24 - 57	7/26/2023	0.18	-167.9	7.23	1.00	24.0	21.2
X-CB1	XCB1-PWY-111323	24 - 57	11/13/2023	0.17	-109.5	7.04	0.83	19.9	2.20
X-CB3	XCB3-PWY-111323	24 - 57	11/13/2023	0.30	-113.5	7.03	0.87	19.2	7.25
X-CC1	XCC1-PWY-111323	24 - 57	11/13/2023	0.09	-105.8	7.17	0.89	19.6	2.37
X-CC5	XCC5-PWY-111323	24 - 57	11/13/2023	0.44	-127.9	7.18	0.84	18.4	13.2

NOTES:

1) Field parameters were collected using a YSI ProDSS.

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Table 3
Pre-SEE Soil Analytical Results

				Benzene			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
Screening Criteria (mg/kg)				0.03						2						0.02			23			0.06					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	UF1		< 0.0053	UF1		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	730			< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	280			< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	0.97			< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	8.5		J	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	12		J	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	17		J	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	610		J	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	3.7		J	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	0.0021	J	J	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Benzene			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
Screening Criteria (mg/kg)				**0.03**						**2**						**0.02**			**23**			**0.06**					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-103	SB103-38-051723	38	5/17/2023	< 0.0288	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.144	U		< 0.0577	U		< 0.0577	U		< 0.0577	U	
SB-103	SB103-43-051723	43	5/17/2023	< 0.0244	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.122	U		< 0.0487	U		< 0.0487	U		< 0.0487	U	
SB-103	SB103-58-051723	58	5/17/2023	**0.0345**			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0051	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
SB-103	SB103-68-051323	68	5/17/2023	**1030**			< 0.534	U		< 0.534	U		< 0.534	U		< 1.34	U		< 0.534	U		< 0.534	U		< 0.534	U	
SB-103	SB103-77-052423	77	5/24/2023	**0.0081**			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0047	U		< 0.0019	U	UJ	< 0.0019	U		< 0.0019	U	
SB-104	SB104-42-062023	42	6/20/2023	**14**			< 0.268	U		< 0.268	U		< 0.268	U		< 0.671	U		< 0.268	U		< 0.268	U		< 0.268	U	
SB-104	SB104-57-062023	57	6/20/2023	**149**			< 2.31	U		< 2.31	U		< 2.31	U		< 5.78	U		< 2.31	U		< 2.31	U		< 2.31	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	**197**			< 2.12	U		< 2.12	U		< 2.12	U		< 5.31	U		< 2.12	U		< 2.12	U		< 2.12	U	
SB-104	SB104-65-062023	65	6/20/2023	**0.382**			< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.15	U		< 0.0601	U		< 0.0601	U		< 0.0601	U	
SB-104	SB104-78-062023	78	6/20/2023	< 0.0304	U	UJ	< 0.0608	U		< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.152	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	< 0.23	U		< 0.46	U		< 0.46	U		< 0.46	U		< 1.15	U		< 0.46	U		< 0.46	U		< 0.46	U	
SB-105	SB105-55-062023	55	6/20/2023	**471**			< 0.0607	U	UJ	< 0.0607	U	UJ	< 0.0607	U	UJ	< 0.152	U	UJ	< 0.0607	U	UJ	< 0.0607	U		< 0.0607	U	
SB-105	SB105-67-062023	67	6/20/2023	**0.27**			< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.13	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	**0.0077**			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0048	U		< 0.0019	U		< 0.0019	U		< 0.0019	U	
SB-106	SB106-39-061923	39	6/19/2023	< 0.0291	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.145	U		< 0.0581	U		< 0.0581	U		< 0.0581	U	
SB-106	SB106-45-061923	45	6/19/2023	< 0.0308	U	UJ	< 0.0616	U		< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.154	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0310	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.155	U		< 0.0620	U		< 0.0620	U		< 0.0620	U	
SB-106	SB106-58-061923	58	6/19/2023	**1530**			< 0.692	U	UJ	< 0.692	U	UJ	< 0.692	U	UJ	< 1.73	U	UJ	< 0.692	U	UJ	< 0.692	U		< 0.692	U	
SB-106	SB106-68-061923	68	6/19/2023	**0.0419**			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0047	U		< 0.0019	U		< 0.0019	U		< 0.0019	U	
SB-106	SB106-77-061923	77	6/19/2023	**0.0598**			< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.131	U		< 0.0523	U		< 0.0523	U		< 0.0523	U	
SB-107	SB107-15-061723	15	6/17/2023	< 0.223	U		< 0.446	U		< 0.446	U		< 0.446	U		< 1.12	U		< 0.446	U		< 0.446	U		< 0.446	U	
SB-107	SB107-39-061723	39	6/17/2023	< 0.19	U		< 0.379	U		< 0.379	U		< 0.379	U		< 0.948	U		< 0.379	U		< 0.379	U		< 0.379	U	
SB-107	SB107-58-061723	58	6/17/2023	**7.37**			< 0.125	U		< 0.125	U		< 0.125	U		< 0.313	U		< 0.125	U		< 0.125	U		< 0.125	U	
SB-107	SB107-67-061723	67	6/17/2023	**51.4**			< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 1.13	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	**0.0305**			< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.12	U		< 0.0481	U		< 0.0481	U		< 0.0481	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	**0.0103**			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0059	U		< 0.0024	U		< 0.0024	U		< 0.0024	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	**502**			< 0.498	U		< 0.498	U		< 0.498	U		< 1.24	U		< 0.498	U		< 0.498	U		< 0.498	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	**119**			< 2.32	U		< 2.32	U		< 2.32	U		< 5.81	U		< 2.32	U		< 2.32	U		< 2.32	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	**152**			< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0072	U		< 0.0029	U		< 0.0029	U		< 0.0029	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	**271**			< 0.893	U		< 0.893	U		< 0.893	U		< 2.23	U		< 0.893	U		< 0.893	U		< 0.893	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	**147**			< 0.42	U		< 0.42	U		< 0.42	U		< 1.05	U		< 0.42	U		< 0.42	U		< 0.42	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	**2240**			< 0.535	U	UJ	< 0.535	U	UJ	< 0.535	U	UJ	< 1.34	U	UJ	< 0.535	U	UJ	< 0.535	U		< 0.535	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	**2460**			< 0.0597	U	UJ	< 0.0597	U	UJ	< 0.0597	U	UJ	< 0.149	U	UJ	< 0.0597	U	UJ	< 0.0597	U		< 0.0597	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	**65.8**			< 0.0021	U	UJ	< 0.0021	U	UJ	< 0.0021	U	UJ	< 0.0053	U	UJ	< 0.0021	U	UJ	< 0.0021	U		< 0.0021	U	
SI-AC4	SIAC4-41-042523	41	4/25/2023	**2.02**			< 0.122	U		< 0.122	U		< 0.122	U		< 0.304	U		< 0.122	U		< 0.122	U		< 0.122	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	**1720**			< 4.54	U		< 4.54	U		< 4.54	U		< 11.3	U		< 4.54	U		< 4.54	U		< 4.54	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	**45.9**			< 1.12	U		< 1.12	U		< 1.12	U		< 2.81	U		< 1.12	U		< 1.12	U		< 1.12	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	**46.4**			< 0.482	U		< 0.482	U		< 0.482	U		< 1.21	U		< 0.482	U		< 0.482	U		< 0.482	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	**405**			< 0.449	U		< 0.449	U		< 0.449	U		< 1.12	U		< 0.449	U		< 0.449	U		< 0.449	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	**296**			< 3.59	U		< 3.59	U		< 3.59	U		< 8.97	U		< 3.59	U		< 3.59	U		< 3.59	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	**0.063**	BJ		< 0.139	U		< 0.139	U		< 0.139	U		< 0.347	U		< 0.139	U		< 0.139	U		< 0.139	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	**33.8**	B		< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.23	U		< 0.0920	U		< 0.0920	U		< 0.0920	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	**1630**	B		< 20.3	U		< 20.3	U		< 20.3	U		< 50.7	U		< 20.3	U		< 20.3	U		< 20.3	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	**0.538**			< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.165	U		< 0.0658	U	UJ	< 0.0658	U		< 0.0658	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	**20.3**			< 0.0570	U		< 0.0570	U		< 0.0570	U		< 0.142	U		< 0.0570	U	UJ	< 0.0570	U		< 0.0570	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	**4330**			< 0.216	U		< 0.216	U		< 0.216	U		< 0.539	U		< 0.216	U		< 0.216	U		< 0.216	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	**296**			< 0.0539	U		< 0.0539	U		< 0.0539	U		< 0.135	U		< 0.0539	U		< 0.0539	U		< 0.0539	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	**882**			< 1.05	U		< 1.05	U		< 1.05	U		< 2.62	U		< 1.05	U		< 1.05	U		< 1.05	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	**0.012**	J		< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.128	U		< 0.0510	U		< 0.0510	U		< 0.0510	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	**27.7**			< 0.0516	U		< 0.0516	U		< 0.0516	U		< 0.129	U		< 0.0516	U		< 0.0516	U		< 0.0516	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 0.943	U		< 1.89	U		< 1.89	U		< 1.89	U		< 4.71	U		< 1.89	U		< 1.89	U		< 1.89	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	**1570**			< 0.0575	U		< 0.0575	U		< 0.0575	U		< 0.144	U		< 0.0575	U		< 0.0575	U		< 0.0575	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	**2.84**	S	J	< 0.126	U		< 0.126	U		< 0.126	U		< 0.316	U		< 0.126	U		< 0.126	SU	R	< 0.126	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	**0.0686**			< 0.0501	U		< 0.0501	U		< 0.0501	U		< 0.125	U		< 0.0501	U		< 0.0501	U		< 0.0501	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	**505**			< 0.0579	U		< 0.0579	U		< 0.0579	U	UJ	< 0.145	U		< 0.0579	U		< 0.0579	U		< 0.0579	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	**17.6**			< 0.0460	U		< 0.0460	U		< 0.0460	U	UJ	< 0.115	U		< 0.0460	U		< 0.0460	U		< 0.0460	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	**36.5**			< 0.447	U		< 0.447	U		< 0.447	U	UJ	< 1.12	U		< 0.447	U		< 0.447	U		< 0.447	U	

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Table 3
Pre-SEE Soil Analytical Results

				Benzene			1,1,1,2-Tetrachloroethane			1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1,2-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			1,1-Dichloropropene		
Screening Criteria (mg/kg)				**0.03**						**2**						**0.02**			**23**			**0.06**					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SI-BC1	SIBC1-40-051323	40	5/13/2023	**0.406**			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0056	U		< 0.0022	U		< 0.0022	U		< 0.0022	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	**7.19**		J	< 0.442	U		< 0.442	U		< 0.442	U		< 1.1	U		< 0.442	U		< 0.442	U		< 0.442	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	**24.2**		J	< 0.444	U		< 0.444	U		< 0.444	U		< 1.11	U		< 0.444	U		< 0.444	U		< 0.444	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	**269**			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0060	U		< 0.0024	U		< 0.0024	U		< 0.0024	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	**0.085**	J		< 0.377	U		< 0.377	U		< 0.377	U		< 0.942	U		< 0.377	U		< 0.377	U		< 0.377	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	**2550**			< 21.7	U		< 21.7	U		< 21.7	U		< 54.2	U		< 21.7	U		< 21.7	U		< 21.7	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	**35.8**			< 12.3	U		< 12.3	U		< 12.3	U		< 30.7	U		< 12.3	U		< 12.3	U		< 12.3	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	**421**		J	< 1.41	U		< 1.41	U		< 1.41	U		< 3.52	U		< 1.41	U		< 1.41	U		< 1.41	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	**142**		J	< 0.218	U		< 0.218	U		< 0.218	U		< 0.545	U		< 0.218	U		< 0.218	U		< 0.218	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0384	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.192	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	**0.937**			< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.13	U		< 0.0519	U		< 0.0519	U		< 0.0519	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.211	U		< 0.423	U		< 0.423	U		< 0.423	U		< 1.06	U		< 0.423	U		< 0.423	U		< 0.423	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	**52.4**			< 0.481	U		< 0.481	U		< 0.481	U		< 1.2	U		< 0.481	U		< 0.481	U		< 0.481	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	**263**			< 0.88	U		< 0.88	U		< 0.88	U		< 2.2	U		< 0.88	U		< 0.88	U		< 0.88	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 1.14	U		< 2.29	U		< 2.29	U		< 2.29	U		< 5.72	U		< 2.29	U		< 2.29	U		< 2.29	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	**37.8**			< 2.33	U		< 2.33	U		< 2.33	U		< 5.83	U		< 2.33	U		< 2.33	U		< 2.33	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	**2.48**			< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.145	U		< 0.0581	U		< 0.0581	U		< 0.0581	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	**1.16**		J	< 0.474	U		< 0.474	U		< 0.474	U		< 1.18	U		< 0.474	U		< 0.474	U		< 0.474	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	**2.47**		J	< 0.443	U		< 0.443	U		< 0.443	U		< 1.11	U		< 0.443	U		< 0.443	U		< 0.443	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	**146**			< 0.453	U		< 0.453	U		< 0.453	U		< 1.13	U		< 0.453	U		< 0.453	U		< 0.453	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	**88.3**			< 0.421	U		< 0.421	U		< 0.421	U		< 1.05	U		< 0.421	U		< 0.421	U		< 0.421	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	**84.1**			< 0.449	U		< 0.449	U		< 0.449	U		< 1.12	U		< 0.449	U		< 0.449	U		< 0.449	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	**194**			< 5.13	U		< 5.13	U		< 5.13	U		< 12.8	U		< 5.13	U		< 5.13	U		< 5.13	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	**0.298**			< 0.0698	U	UJ	< 0.0698	U	UJ	< 0.0698	U	UJ	< 0.174	U	UJ	< 0.0698	U	UJ	< 0.0698	U		< 0.0698	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	**15.6**			< 0.29	U		< 0.29	U		< 0.29	U		< 0.725	U		< 0.29	U		< 0.29	U		< 0.29	U	
T-AB2	TAB2-48-061523	48	6/15/2023	**2.55**			< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.158	U		< 0.0633	U		< 0.0633	U		< 0.0633	U	
T-AB2	TAB2-59-061523	59	6/15/2023	**22.1**			< 0.836	U		< 0.836	U		< 0.836	U		< 2.09	U		< 0.836	U		< 0.836	U		< 0.836	U	
T-BG2	TBG2-48-071123	48	7/11/2023	**0.0120**			< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0057	U		< 0.0023	U		< 0.0023	U		< 0.0023	U	
T-BG2	TBG2-59-071123	59	7/11/2023	**53.8**			< 0.0020	U	UJ	< 0.0020	U	UJ	< 0.0020	U	UJ	< 0.0051	U	UJ	< 0.0020	U	UJ	< 0.0020	U		< 0.0020	U	
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	**69.9**			< 0.0022	U	UJ	< 0.0022	U	UJ	< 0.0022	U	UJ	< 0.0054	U	UJ	< 0.0022	U	UJ	< 0.0022	U		< 0.0022	U	
X-AD2	XAD2-49-052323	49	5/23/2023	**302**		J	< 0.512	U		< 0.512	U		< 0.512	U		< 1.28	U		< 0.512	U	UJ	< 0.512	U		< 0.512	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	**517**		J	< 0.469	U		< 0.469	U		< 0.469	U		< 1.17	U		< 0.469	U	UJ	< 0.469	U		< 0.469	U	
X-AD2	XAD2-58-052323	58	5/23/2023	**177**			< 0.444	U		< 0.444	U		< 0.444	U		< 1.11	U		< 0.444	U	UJ	< 0.444	U		< 0.444	U	
X-AE4	XAE4-40-030223	40	3/2/2023	**2630**	B		< 12.4	U		< 12.4	U		< 12.4	U		< 30.9	U		< 12.4	U		< 12.4	U		< 12.4	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	**2210**	B		< 12	U		< 12	U		< 12	U		< 30	U		< 12	U		< 12	U		< 12	U	
X-AE4	XAE4-48-030223	48	3/2/2023	**53.2**			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0051	U		< 0.0020	U		< 0.0020	U		< 0.0020	U	
X-AE4	XAE4-52-030223	52	3/2/2023	**36.1**			< 0.44	U		< 0.44	U		< 0.44	U		< 1.1	U		< 0.44	U		< 0.44	U		< 0.44	U	
X-AF6	XAF6-40-022723	40	2/27/2023	**6990**		J	< 0.627	U		< 0.627	U		< 0.627	U		< 1.57	U		< 0.627	U		< 0.627	U		< 0.627	U	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	**2050**		J	< 2.31	U		< 2.31	U		< 2.31	U		< 5.77	U		< 2.31	U		< 2.31	U		< 2.31	U	
X-AF6	XAF6-47-022723	47	2/27/2023	**48.3**			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0059	U		< 0.0024	U		< 0.0024	U		< 0.0024	U	
X-AF6	XAF6-58-022723	58	2/27/2023	**6.23**			< 0.489	U		< 0.489	U		< 0.489	U		< 1.22	U		< 0.489	U		< 0.489	U		< 0.489	U	
X-AG5	XAG5-40-031823	40	3/18/2023	**122**			< 10.3	U		< 10.3	U		< 10.3	U		< 25.9	U		< 10.3	U		< 10.3	U		< 10.3	U	
X-AG5	XAG5-49-031823	49	3/18/2023	**352**			< 0.551	U		< 0.551	U		< 0.551	U	UJ	< 1.38	U		< 0.551	U		< 0.551	U		< 0.551	U	
X-AG5	XAG5-56-031823	56	3/18/2023	**0.543**			< 0.0963	U		< 0.0963	U		< 0.0963	U	UJ	< 0.241	U		< 0.0963	U		< 0.0963	U		< 0.0963	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	**2330**			< 23.8	U		< 23.8	U		< 23.8	U		< 59.5	U		< 23.8	U		< 23.8	U		< 23.8	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	**36.8**		J	< 0.477	U		< 0.477	U		< 0.477	U		< 1.19	U		< 0.477	U		< 0.477	U		< 0.477	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	**97.1**		J	< 0.997	U		< 0.997	U		< 0.997	U		< 2.49	U		< 0.997	U		< 0.997	U		< 0.997	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	**0.457**			< 0.0980	U		< 0.0980	U		< 0.0980	U	UJ	< 0.245	U		< 0.0980	U		< 0.0980	U		< 0.0980	U	
X-BB2	XBB2-4-030123	4	3/1/2023	**0.0018**			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0054	U		< 0.0022	U		< 0.0022	U		< 0.0022	U	
X-BB2	XBB2-9-030123	9	3/1/2023	**0.0014**			< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0059	U		< 0.0023	U		< 0.0023	U		< 0.0023	U	
X-BB2	XBB2-38-051823	38	5/18/2023	**114**			< 4.57	U		< 4.57	U		< 4.57	U		< 11.4	U		< 4.57	U		< 4.57	U		< 4.57	U	
X-BB2	XBB2-47-051823	47	5/18/2023	**419**		J	< 9.71	U		< 9.71	U		< 9.71	U		< 24.3	U		< 9.71	U		< 9.71	U		< 9.71	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	**1820**		J	< 24.7	U		< 24.7	U		< 24.7	U		< 61.8	U		< 24.7	U		< 24.7	U		< 24.7	U	
X-BC3	XBC3-4-022423	4	2/24/2023	**0.0048**			< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0046	U		< 0.0018	U		< 0.0018	U		< 0.0018	U	
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0011	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0053	U		< 0.0021	U		< 0.0021	U		< 0.0021	U	
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0345	U		< 0.0689	U		< 0.0689	U		< 0.0689	U		< 0.172	U		< 0.0689	U		< 0.0689	U		< 0.0689	U	
X-BC3	XBC3-47-062123	47	6/21/2023	**641**			< 4.56	U		< 4.56	U		< 4.56	U		< 11.4	U		< 4.56	U		< 4.56	U		< 4.56	U	
X-BC3	XBC3-58-062123	58	6/21/2023	**62.8**			< 1.07	U		< 1.07	U		< 1.07	U		< 2.66	U		< 1.07	U		< 1.07	U		< 1.07	U	

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Table 3
Pre-SEE Soil Analytical Results

				1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dibromoethane (EDB)			1,2-Dichlorobenzene			1,2-Dichloroethane			1,2-Dichloropropane		
Screening Criteria (mg/kg)										5									17			0.02			8		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.0053	UF1F2		< 0.0053	U		< 0.0053	U		--			< 0.0053	UF1*+		< 0.0053	U		< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 13	U		< 13	U		< 13	U		--			< 13	U*+		< 13	U		< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		--			< 3.6	U		9.1			< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		--			< 0.0046	U		< 0.0046	U		< 0.0046	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		--			< 0.0054	U*+		< 0.0054	U		< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	--			< 0.38	U*+	UJ	< 0.38	U	UJ	< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	0.98		J	--			< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	1.8		J	--			< 0.37	U*+	UJ	< 0.37	U	UJ	< 0.37	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	16		J	--			< 12	U*+	UJ	< 12	U	UJ	< 12	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	0.2		J	--			< 0.0043	U*+	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		--			< 0.0054	U*+		< 0.0054	U		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	--			< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	--			< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		--			< 0.0057	U*+		< 0.0057	U		< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	--			< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	--			< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		--			< 0.0060	U		< 0.0060	U		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		--			< 0.0052	U		< 0.0052	U		< 0.0052	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		--			< 0.0055	U		< 0.0055	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		--			< 0.0058	U		< 0.0058	U		< 0.0058	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		--			< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		--			< 0.01	U		< 0.01	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		--			< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		--			< 0.0081	U		< 0.0081	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		--			< 0.0072	U		< 0.0072	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		--			< 0.0068	U		< 0.0068	U		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		--			< 0.0036	U		< 0.0036	U		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		--			< 0.0058	U		< 0.0058	U		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		--			< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		--			< 0.0062	U		< 0.0062	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		--			< 0.0061	U		< 0.0061	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		--			< 0.0059	U		< 0.0059	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		--			< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		--			< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		--			< 0.0098	U		< 0.0098	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		--			< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		--			< 0.0049	U		< 0.0049	U		< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		--			< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		--			< 0.0062	U		< 0.0062	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		--			< 0.0055	U		< 0.0055	U		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		--			< 0.0051	U		< 0.0051	U		< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		--			< 0.0052	U		< 0.0052	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		--			< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		--			< 0.0051	U		< 0.0051	U		< 0.0051	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		--			< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		--			< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	--			< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	--			< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	--			< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dibromoethane (EDB)			1,2-Dichlorobenzene			1,2-Dichloroethane			1,2-Dichloropropane		
Screening Criteria (mg/kg)										5									17			0.02			8		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		--			< 0.0577	U	
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		--			< 0.0487	U	
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		--			< 0.0020	U	
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		< 0.534	U		< 0.534	U		**0.66**			< 0.534	U		< 0.534	U		--			< 0.534	U	
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		**0.0021**			< 0.0019	U		< 0.0019	U		--			< 0.0019	U	
SB-104	SB104-42-062023	42	6/20/2023	< 0.268	U		< 0.268	U		< 0.268	U		**8.44**			< 0.268	U		< 0.268	U		--			< 0.268	U	
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		--			< 2.31	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		--			< 2.12	U	
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		--			< 0.0601	U	
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	--			< 0.0608	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		< 0.46	U		< 0.46	U		**38**			< 0.46	U		< 0.46	U		--			< 0.46	U	
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		< 0.0607	U	UJ	< 0.0607	U		< 0.0607	U		< 0.0607	U	UJ	< 0.0607	U		--			< 0.0607	U	UJ
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	--			< 0.0518	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		--			< 0.0019	U	
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		--			< 0.0581	U	
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	--			< 0.0616	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		--			< 0.0620	U	
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		< 0.692	U	UJ	< 0.692	U		< 0.692	U		< 0.692	U	UJ	< 0.692	U		--			< 0.692	U	UJ
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		--			< 0.0019	U	
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		--			< 0.0523	U	
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		--			< 0.446	U	
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		< 0.379	U		< 0.379	U		**1.92**			< 0.379	U		< 0.379	U		--			< 0.379	U	
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		--			< 0.125	U	
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	--			< 0.452	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		--			< 0.0481	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0024	U		--			< 0.0024	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		< 0.498	U		< 0.498	U		**1.12**			< 0.498	U		< 0.498	U		--			< 0.498	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		--			< 2.32	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		< 0.0029	U		< 0.0029	U		**0.0051**			< 0.0029	U		< 0.0029	U		--			< 0.0029	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		< 0.893	U		< 0.893	U		**1.32**			< 0.893	U		< 0.893	U		--			< 0.893	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		--			< 0.42	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		< 0.535	U	UJ	< 0.535	U		**3.07**			< 0.535	U	UJ	< 0.535	U		--			< 0.535	U	UJ
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 0.0597	U		< 0.0597	U	UJ	< 0.0597	U		**3.49**			< 0.0597	U	UJ	< 0.0597	U		--			< 0.0597	U	UJ
SI-AB0	SIAB0-56-061323	56	6/13/2023	< 0.0021	U		< 0.0021	U	UJ	< 0.0021	U		**0.141**			< 0.0021	U	UJ	< 0.0021	U		--			< 0.0021	U	UJ
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		--			< 0.122	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 4.54	U		< 4.54	U		< 4.54	U		**10.8**			< 4.54	U		< 4.54	U		--			< 4.54	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 1.12	U		< 1.12	U		< 1.12	U		**22.2**			< 1.12	U		< 1.12	U		--			< 1.12	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		< 0.482	U		< 0.482	U		< 0.482	U		< 0.482	U		< 0.482	U		--			< 0.482	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		--			< 0.449	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		--			< 3.59	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		--			< 0.139	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.0920	U		--			< 0.0920	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 20.3	U		< 20.3	U		< 20.3	U		**129**			< 20.3	U		< 20.3	U		--			< 20.3	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.0658	U		--			< 0.0658	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		< 0.0570	U		< 0.0570	U		**0.166**			< 0.0570	U		< 0.0570	U		--			< 0.0570	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 0.216	U		< 0.216	U		< 0.216	U		**6.2**			< 0.216	U		< 0.216	U		--			< 0.216	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 0.0539	U		< 0.0539	U		< 0.0539	U		**0.049**	J		< 0.0539	U		< 0.0539	U		--			< 0.0539	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 1.05	U		< 1.05	U		< 1.05	U		**200**			< 1.05	U		< 1.05	U		--			< 1.05	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U		--			< 0.0510	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 0.0516	U		< 0.0516	U		< 0.0516	U		**0.236**			< 0.0516	U		< 0.0516	U		--			< 0.0516	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 1.89	U		< 1.89	U		< 1.89	U		**15.3**			< 1.89	U		< 1.89	U		--			< 1.89	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 0.0575	U		< 0.0575	U		< 0.0575	U		< 23	U		< 0.0575	U		< 0.0575	U		--			< 0.0575	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		< 0.126	U		< 0.126	U		< 0.126	U		< 0.126	U		< 0.126	U		--			< 0.126	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 0.0501	U		< 0.0501	U		< 0.0501	U		**2.53**			< 0.0501	U		< 0.0501	U		--			< 0.0501	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 0.0579	U		< 0.0579	U	UJ	< 0.0579	U		**8.78**			< 0.0579	U		< 0.0579	U		--			< 0.0579	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		< 0.0460	U	UJ	< 0.0460	U		**0.213**			< 0.0460	U		< 0.0460	U		--			< 0.0460	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 0.447	U		< 0.447	U	UJ	< 0.447	U		**209**			< 0.447	U		< 0.447	U		--			< 0.447	U	

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Table 3
Pre-SEE Soil Analytical Results

				1,2,3-Trichlorobenzene			1,2,3-Trichloropropane			1,2,4-Trichlorobenzene			1,2,4-Trimethylbenzene			1,2-Dibromoethane (EDB)			1,2-Dichlorobenzene			1,2-Dichloroethane			1,2-Dichloropropane		
Screening Criteria (mg/kg)										5									17			0.02			8		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U		0.0094			< 0.0022	U		< 0.0022	U		--			< 0.0022	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		< 0.442	U		< 0.442	U		2.35		J	< 0.442	U		< 0.442	U		--			< 0.442	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 0.444	U		< 0.444	U		< 0.444	U		6.77		J	< 0.444	U		< 0.444	U		--			< 0.444	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		0.171			< 0.0024	U		< 0.0024	U		--			< 0.0024	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 0.377	U		< 0.377	U		< 0.377	U		8.88			< 0.377	U		< 0.377	U		--			< 0.377	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 21.7	U		< 21.7	U		< 21.7	U		104			< 21.7	U		< 21.7	U		--			< 21.7	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		--			< 12.3	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 1.41	U		< 1.41	U		< 1.41	U		26.1		J	< 1.41	U		< 1.41	U		--			< 1.41	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 0.218	U		< 0.218	U		< 0.218	U		8.28		J	< 0.218	U		< 0.218	U		--			< 0.218	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	--			< 0.0768	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		--			< 0.0519	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		< 0.423	U		< 0.423	U		2.92			< 0.423	U		< 0.423	U		--			< 0.423	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		--			< 0.481	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		< 0.88	U		< 0.88	U		< 0.88	U		< 0.88	U		< 0.88	U		--			< 0.88	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 2.29	U		< 2.29	U		< 2.29	U		45.6			< 2.29	U		< 2.29	U		--			< 2.29	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 2.33	U		< 2.33	U		< 2.33	U		51.1			< 2.33	U		< 2.33	U		--			< 2.33	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		< 0.0581	U		< 0.0581	U		0.334			< 0.0581	U		< 0.0581	U		--			< 0.0581	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U		< 0.474	U		< 0.474	U		< 0.474	U	UJ	< 0.474	U		< 0.474	U		--			< 0.474	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 0.443	U		< 0.443	U		< 0.443	U		9.89		J	< 0.443	U		< 0.443	U		--			< 0.443	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		--			< 0.453	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 0.421	U		< 0.421	U		< 0.421	U		2.8			< 0.421	U		< 0.421	U		--			< 0.421	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 0.449	U		< 0.449	U		< 0.449	U		2.29			< 0.449	U		< 0.449	U		--			< 0.449	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		--			< 5.13	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		< 0.0698	U	UJ	< 0.0698	U		< 0.0698	U		< 0.0698	U	UJ	< 0.0698	U		--			< 0.0698	U	UJ
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		--			< 0.29	U	
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		--			< 0.0633	U	
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		< 0.836	U		< 0.836	U		2.63			< 0.836	U		< 0.836	U		--			< 0.836	U	
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		--			< 0.0023	U	
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0020	U		< 0.0020	U	UJ	< 0.0020	U		0.0273			< 0.0020	U	UJ	< 0.0020	U		--			< 0.0020	U	UJ
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0022	U		< 0.0022	U	UJ	< 0.0022	U		0.0264			< 0.0022	U	UJ	< 0.0022	U		--			< 0.0022	U	UJ
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		< 0.512	U		< 0.512	U		< 0.512	U		< 0.512	U		< 0.512	U		--			< 0.512	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		< 0.469	U		< 0.469	U		< 0.469	U		< 0.469	U		< 0.469	U		--			< 0.469	U	
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		--			< 0.444	U	
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		< 12.4	U		< 12.4	U		4.1	J		< 12.4	U		< 12.4	U		--			< 12.4	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		< 12	U		< 12	U		< 12	U		< 12	U		< 12	U		--			< 12	U	
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0020	U		< 0.0020	U		< 0.0020	U		0.0097			< 0.0020	U		< 0.0020	U		--			< 0.0020	U	
X-AE4	XAE4-52-030223	52	3/2/2023	< 0.44	U		< 0.44	U		< 0.44	U		10.3			< 0.44	U		< 0.44	U		--			< 0.44	U	
X-AF6	XAF6-40-022723	40	2/27/2023	< 0.627	U		< 0.627	U		< 0.627	U		23.1		J	< 0.627	U		< 0.627	U		--			< 0.627	U	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 2.31	U		< 2.31	U		< 2.31	U		13.2		J	< 2.31	U		< 2.31	U		--			< 2.31	U	
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		0.0494			< 0.0024	U		< 0.0024	U		--			< 0.0024	U	
X-AF6	XAF6-58-022723	58	2/27/2023	< 0.489	U		< 0.489	U		< 0.489	U		6.64			< 0.489	U		< 0.489	U		--			< 0.489	U	
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		< 10.3	U		< 10.3	U		< 10.3	U		< 10.3	U		< 10.3	U		--			< 10.3	U	
X-AG5	XAG5-49-031823	49	3/18/2023	< 0.551	U		< 0.551	U	UJ	< 0.551	U		1.27			< 0.551	U		< 0.551	U		--			< 0.551	U	
X-AG5	XAG5-56-031823	56	3/18/2023	< 0.0963	U		< 0.0963	U		< 0.0963	U		0.144			< 0.0963	U		< 0.0963	U		--			< 0.0963	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		< 23.8	U		< 23.8	U		23	J		< 23.8	U		< 23.8	U		--			< 23.8	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		< 0.477	U		< 0.477	U		0.36	J		< 0.477	U		< 0.477	U		--			< 0.477	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		< 0.997	U		< 0.997	U		0.68	J		< 0.997	U		< 0.997	U		--			< 0.997	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 0.0980	U		< 0.0980	U	UJ	< 0.0980	U		3.59			< 0.0980	U		< 0.0980	U		--			< 0.0980	U	
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		--			< 0.0022	U	
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		--			< 0.0023	U	
X-BB2	XBB2-38-051823	38	5/18/2023	< 4.57	U		< 4.57	U		< 4.57	U		134			< 4.57	U		< 4.57	U		--			< 4.57	U	
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		< 9.71	U		< 9.71	U		33.7			< 9.71	U		< 9.71	U		--			< 9.71	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		< 24.7	U		< 24.7	U		49.9			< 24.7	U		< 24.7	U		--			< 24.7	U	
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		--			< 0.0018	U	
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		--			< 0.0021	U	
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0689	U		< 0.0689	U		< 0.0689	U		3.98			< 0.0689	U		< 0.0689	U		--			< 0.0689	U	
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		< 4.56	U		< 4.56	U		26.6			< 4.56	U		< 4.56	U		--			< 4.56	U	
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		--			< 1.07	U	

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Table 3
Pre-SEE Soil Analytical Results

				1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			1-Chlorohexane			1-Methylnaphthalene			2,2-Dichloropropane		
Screening Criteria (mg/kg)													2														
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.33	UF1F2	UJ	< 0.0053	U		< 0.0066	U		< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 13	U		< 13	U		< 13	U		< 0.39	U		< 13	U		0.0030	J		< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 0.4	U		< 3.6	U		0.012			< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.39	U		< 0.0046	U		0.0012	J		< 0.0046	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.35	U		< 0.0054	U		0.0016	J		< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U		< 0.38	U	UJ	0.019	B		< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	0.29	J	J	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.41	U		< 0.55	U	UJ	0.092	B		< 0.55	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	0.52		J	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.41	U		< 0.37	U	UJ	0.09	B		< 0.37	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	5.9	J	J	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 0.38	U		< 12	U	UJ	1.7			< 12	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	0.067		J	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.34	U		< 0.0043	U	UJ	0.015			< 0.0043	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.33	U		< 0.0054	U		< 0.0066	U		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.37	UF1	UJ	< 0.0062	U	UJ	< 0.0074	U		< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.0051	U	UJ	< 0.0068	U		< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.34	U		< 0.0057	U		< 0.0067	U		< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.34	U		< 0.0069	U	UJ	< 0.0069	U		< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.0051	U	UJ	< 0.0067	U		< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.41	U		< 0.0060	U		< 0.0083	U		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.32	U		< 0.0052	U		< 0.0065	U		< 0.0052	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.36	U		< 0.0055	U		< 0.0072	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.44	U		< 0.0053	U		< 0.0088	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.0053	U		< 0.0065	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.0058	U		< 0.0067	U		< 0.0058	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.0054	U		< 0.0067	U		< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.35	U		< 0.0053	U		< 0.0069	U		< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.33	U		< 0.01	U		< 0.0066	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.0053	U		< 0.0068	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.0054	U		< 0.0069	U		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.33	U		< 0.0081	U		< 0.0067	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.36	U		< 0.0072	U		< 0.0071	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.36	U		< 0.0068	U		< 0.0071	U		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.41	U		< 0.0053	U		< 0.0083	U		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.34	U		< 0.0036	U		< 0.0068	U		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.34	UF1	UJ	< 0.0058	U		< 0.0067	U		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.34	UF1	UJ	< 0.0056	U		< 0.0067	U		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U	UJ	< 0.0053	U		< 0.0067	U		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.35	U	UJ	< 0.0062	U		< 0.0070	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U	UJ	< 0.0053	U		< 0.0069	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.35	U	UJ	< 0.0061	U		< 0.0069	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.37	U	UJ	< 0.0059	U		< 0.0074	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.35	U		< 0.0056	U		< 0.0070	U		< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.0056	U		< 0.0066	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.0053	U		< 0.0067	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.36	U		< 0.0098	U		< 0.0072	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.0056	U		< 0.0067	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.33	U		< 0.0049	U		< 0.0067	U		< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.0053	U		< 0.0068	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.34	U		< 0.0062	U		< 0.0069	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.35	U		< 0.0055	U		0.0014	J		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.33	U		< 0.0051	U		< 0.0065	U		< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.34	U		< 0.0052	U		< 0.0068	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.0054	U		< 0.0067	U		< 0.0054	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.34	U		< 0.0051	U		< 0.0068	U		< 0.0051	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.0056	U		< 0.0069	U		< 0.0056	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.0056	U		< 0.0068	U		< 0.0056	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.35	U	UJ	< 0.0074	U	UJ	0.0013	J		< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.34	U	UJ	< 0.0085	U	UJ	< 0.0067	U		< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U	UJ	< 0.0051	U	UJ	< 0.0068	U		< 0.0051	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			1-Chlorohexane			1-Methylnaphthalene			2,2-Dichloropropane		
Screening Criteria (mg/kg)													2													
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		--			--			--			< 0.0577	U	
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		--			--			--			< 0.0487	U	
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		--			--			--			< 0.0020	U	
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		< 0.534	U		< 0.534	U		< 0.534	U		--			--			--			< 0.534	U	
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		--			--			--			< 0.0019	U	
SB-104	SB104-42-062023	42	6/20/2023	**1.27**			< 0.268	U		< 0.268	U		< 0.268	U		--			--			--			< 0.268	U	
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		--			--			--			< 2.31	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		--			--			--			< 2.12	U	
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		--			--			--			< 0.0601	U	
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	--			--			--			< 0.0608	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		< 0.46	U		< 0.46	U		< 0.46	U		--			--			--			< 0.46	U	
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		< 0.0607	U		< 0.0607	U	UJ	< 0.0607	U		--			--			--			< 0.0607	U	UJ
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	--			--			--			< 0.0518	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		--			--			--			< 0.0019	U	
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		--			--			--			< 0.0581	U	
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	--			--			--			< 0.0616	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		--			--			--			< 0.0620	U	
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		< 0.692	U		< 0.692	U	UJ	< 0.692	U		--			--			--			< 0.692	U	UJ
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		--			--			--			< 0.0019	U	
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		--			--			--			< 0.0523	U	
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		--			--			--			< 0.446	U	
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		< 0.379	U		< 0.379	U		< 0.379	U		--			--			--			< 0.379	U	
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		--			--			--			< 0.125	U	
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	--			--			--			< 0.452	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		--			--			--			< 0.0481	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0024	U		--			--			--			< 0.0024	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		< 0.498	U		< 0.498	U		< 0.498	U		--			--			--			< 0.498	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		--			--			--			< 2.32	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		--			--			--			< 0.0029	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		< 0.893	U		< 0.893	U		< 0.893	U		--			--			--			< 0.893	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		--			--			--			< 0.42	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		< 0.535	U		< 0.535	U	UJ	< 0.535	U		--			--			--			< 0.535	U	UJ
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	**0.55**			< 0.0597	U		< 0.0597	U	UJ	< 0.0597	U		--			--			--			< 0.0597	U	UJ
SI-AB0	SIAB0-56-061323	56	6/13/2023	**0.0366**			< 0.0021	U		< 0.0021	U	UJ	< 0.0021	U		--			--			--			< 0.0021	U	UJ
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		--			--			--			< 0.122	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	**4**	J		< 4.54	U		< 4.54	U		< 4.54	U		--			--			--			< 4.54	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	**7.55**			< 1.12	U		< 1.12	U		< 1.12	U		--			--			--			< 1.12	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		< 0.482	U		< 0.482	U		< 0.482	U		--			--			--			< 0.482	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		--			--			--			< 0.449	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		--			--			--			< 3.59	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		--			--			--			< 0.139	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.0920	U		--			--			--			< 0.0920	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	**44.8**			< 20.3	U		< 20.3	U		< 20.3	U		--			--			--			< 20.3	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.0658	U		--			--			--			< 0.0658	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		< 0.0570	U		< 0.0570	U		< 0.0570	U		--			--			--			< 0.0570	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	**1.9**			< 0.216	U		< 0.216	U		< 0.216	U		--			--			--			< 0.216	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	**0.014**	J		< 0.0539	U		< 0.0539	U		< 0.0539	U		--			--			--			< 0.0539	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	**70.4**			< 1.05	U		< 1.05	U		< 1.05	U		--			--			--			< 1.05	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U		--			--			--			< 0.0510	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	**0.0596**			< 0.0516	U		< 0.0516	U		< 0.0516	U		--			--			--			< 0.0516	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	**8.54**			< 1.89	U		< 1.89	U		< 1.89	U		--			--			--			< 1.89	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 23	U		< 0.0575	U		< 0.0575	U		< 0.0575	U		--			--			--			< 0.0575	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		< 0.126	U		< 0.126	U		< 0.126	U		--			--			--			< 0.126	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	**1.06**			< 0.0501	U		< 0.0501	U		< 0.0501	U		--			--			--			< 0.0501	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	**2.52**			< 0.0579	U		< 0.0579	U		< 0.0579	U		--			--			--			< 0.0579	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		< 0.0460	U		< 0.0460	U		< 0.0460	U		--			--			--			< 0.0460	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	**72.7**			< 0.447	U		< 0.447	U		< 0.447	U		--			--			--			< 0.447	U	

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Table 3
Pre-SEE Soil Analytical Results

				1,3,5-Trimethylbenzene			1,3-Dichlorobenzene			1,3-Dichloropropane			1,4-Dichlorobenzene			1,4-Dioxane			1-Chlorohexane			1-Methylnaphthalene			2,2-Dichloropropane		
Screening Criteria (mg/kg)													2													
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		--			--			--			< 0.0022	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	0.574			< 0.442	U		< 0.442	U		< 0.442	U		--			--			--			< 0.442	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	1.28			< 0.444	U		< 0.444	U		< 0.444	U		--			--			--			< 0.444	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	0.0389			< 0.0024	U		< 0.0024	U		< 0.0024	U		--			--			--			< 0.0024	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	5.01			< 0.377	U		< 0.377	U		< 0.377	U		--			--			--			< 0.377	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	31.3			< 21.7	U		< 21.7	U		< 21.7	U		--			--			--			< 21.7	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		--			--			--			< 12.3	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	3.4		J	< 1.41	U		< 1.41	U		< 1.41	U		--			--			--			< 1.41	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	1.01		J	< 0.218	U		< 0.218	U		< 0.218	U		--			--			--			< 0.218	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	--			--			--			< 0.0768	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		--			--			--			< 0.0519	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		< 0.423	U		< 0.423	U		< 0.423	U		--			--			--			< 0.423	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		--			--			--			< 0.481	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		< 0.88	U		< 0.88	U		< 0.88	U		--			--			--			< 0.88	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	13.7			< 2.29	U		< 2.29	U		< 2.29	U		--			--			--			< 2.29	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	14.9			< 2.33	U		< 2.33	U		< 2.33	U		--			--			--			< 2.33	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	0.0869			< 0.0581	U		< 0.0581	U		< 0.0581	U		--			--			--			< 0.0581	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U	UJ	< 0.474	U		< 0.474	U		< 0.474	U		--			--			--			< 0.474	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	1.71		J	< 0.443	U		< 0.443	U		< 0.443	U		--			--			--			< 0.443	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		--			--			--			< 0.453	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	0.674			< 0.421	U		< 0.421	U		< 0.421	U		--			--			--			< 0.421	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	0.579			< 0.449	U		< 0.449	U		< 0.449	U		--			--			--			< 0.449	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		--			--			--			< 5.13	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		< 0.0698	U		< 0.0698	U	UJ	< 0.0698	U		--			--			--			< 0.0698	U	UJ
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		--			--			--			< 0.29	U	
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		--			--			--			< 0.0633	U	
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		< 0.836	U		< 0.836	U		< 0.836	U		--			--			--			< 0.836	U	
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		--			--			--			< 0.0023	U	
T-BG2	TBG2-59-071123	59	7/11/2023	0.0070			< 0.0020	U		< 0.0020	U	UJ	< 0.0020	U		--			--			--			< 0.0020	U	UJ
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	0.0068			< 0.0022	U		< 0.0022	U	UJ	< 0.0022	U		--			--			--			< 0.0022	U	UJ
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		< 0.512	U		< 0.512	U		< 0.512	U		--			--			--			< 0.512	U	UJ
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		< 0.469	U		< 0.469	U		< 0.469	U		--			--			--			< 0.469	U	
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		--			--			--			< 0.444	U	
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		< 12.4	U		< 12.4	U		< 12.4	U		--			--			--			< 12.4	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		< 12	U		< 12	U		< 12	U		--			--			--			< 12	U	
X-AE4	XAE4-48-030223	48	3/2/2023	0.0037			< 0.0020	U		< 0.0020	U		< 0.0020	U		--			--			--			< 0.0020	U	
X-AE4	XAE4-52-030223	52	3/2/2023	3.47			< 0.44	U		< 0.44	U		< 0.44	U		--			--			--			< 0.44	U	
X-AF6	XAF6-40-022723	40	2/27/2023	8.18		J	< 0.627	U		< 0.627	U		< 0.627	U		--			--			--			< 0.627	U	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	4.53		J	< 2.31	U		< 2.31	U		< 2.31	U		--			--			--			< 2.31	U	
X-AF6	XAF6-47-022723	47	2/27/2023	0.0137			< 0.0024	U		< 0.0024	U		< 0.0024	U		--			--			--			< 0.0024	U	
X-AF6	XAF6-58-022723	58	2/27/2023	2.18			< 0.489	U		< 0.489	U		< 0.489	U		--			--			--			< 0.489	U	
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		< 10.3	U		< 10.3	U		< 10.3	U		--			--			--			< 10.3	U	
X-AG5	XAG5-49-031823	49	3/18/2023	0.34	J		< 0.551	U		< 0.551	U		< 0.551	U		--			--			--			< 0.551	U	
X-AG5	XAG5-56-031823	56	3/18/2023	0.094	J		< 0.0963	U		< 0.0963	U		< 0.0963	U		--			--			--			< 0.0963	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	8	J		< 23.8	U		< 23.8	U		< 23.8	U		--			--			--			< 23.8	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		< 0.477	U		< 0.477	U		< 0.477	U		--			--			--			< 0.477	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		< 0.997	U		< 0.997	U		< 0.997	U		--			--			--			< 0.997	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	1.12			< 0.0980	U		< 0.0980	U		< 0.0980	U		--			--			--			< 0.0980	U	
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		--			--			--			< 0.0022	U	
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		--			--			--			< 0.0023	U	
X-BB2	XBB2-38-051823	38	5/18/2023	33.8			< 4.57	U		< 4.57	U		< 4.57	U		--			--			--			< 4.57	U	
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		< 9.71	U		< 9.71	U		< 9.71	U		--			--			--			< 9.71	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		< 24.7	U		< 24.7	U		< 24.7	U		--			--			--			< 24.7	U	
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		--			--			--			< 0.0018	U	
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		--			--			--			< 0.0021	U	
X-BC3	XBC3-38-062123	38	6/21/2023	1.23			< 0.0689	U		< 0.0689	U		< 0.0689	U		--			--			--			< 0.0689	U	
X-BC3	XBC3-47-062123	47	6/21/2023	7.21			< 4.56	U		< 4.56	U		< 4.56	U		--			--			--			< 4.56	U	
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		--			--			--			< 1.07	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Butanone (MEK)		
Screening Criteria (mg/kg)				270			0.2			1			9			0.2			0.0008			0.0007					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.33	U	UJ	< 0.33	U		< 0.33	U		< 0.33	U		< 1	UF1	UJ	< 0.33	U	UJ	< 0.33	U	UJ	< 0.027	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.39	U	UJ	< 0.39	U		< 0.39	U		< 0.39	U		< 1.2	U		< 0.39	U	UJ	< 0.39	U	UJ	< 66	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.4	U	UJ	< 0.4	U		< 0.4	U		< 0.4	U		< 1.2	U		< 0.4	U	UJ	< 0.4	U	UJ	< 18	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.39	U		< 0.39	U		< 0.39	U		< 0.39	U		< 1.2	U		< 0.39	U	UJ	< 0.39	U	UJ	< 0.023	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1	U		< 0.35	U		< 0.35	U		< 0.027	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U		< 1.1	U		< 0.38	U		< 0.38	U		< 1.9	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U		< 1.2	U		< 0.41	U		< 0.41	U		< 2.7	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U		< 1.2	U		< 0.41	U		< 0.41	U		< 1.9	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U		< 1.1	U		< 0.38	U		< 0.38	U		< 58	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.022	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.99	U		< 0.33	U		< 0.33	U		< 0.027	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.37	U		< 0.37	U		< 0.37	U		< 0.37	U		< 1.1	UF2		< 0.37	U		< 0.37	U		< 0.031	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.028	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.034	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.026	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U		< 1.2	U		< 0.41	U		< 0.41	U		< 0.03	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.32	U		< 0.32	U		< 0.32	U		< 0.32	U		< 0.97	U		< 0.32	U		< 0.32	U		< 0.026	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U		< 1.1	U		< 0.36	U		< 0.36	U		< 0.027	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.44	U		< 0.44	U		< 0.44	U		< 0.44	U		< 1.3	U		< 0.44	U		< 0.44	U		< 0.027	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.98	U		< 0.33	U		< 0.33	U		< 0.026	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.029	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U		< 0.027	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1	U		< 0.35	U	UJ	< 0.35	U		< 0.026	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.99	U		< 0.33	U	UJ	< 0.33	U		< 0.051	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.027	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 1	U		< 0.33	U		< 0.33	U		< 0.04	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U		< 1.1	U		< 0.36	U		< 0.36	U		< 0.036	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U		< 1.1	U		< 0.36	U		< 0.36	U		< 0.034	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U		< 1.2	U		< 0.41	U		< 0.41	U		< 0.026	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.018	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	UF2		< 0.34	U		< 0.34	U		< 0.029	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	UF1	UJ	< 0.34	U		< 0.34	U		< 0.028	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1.1	U		< 0.35	U		< 0.35	U		< 0.031	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1	U		< 0.35	U		< 0.35	U		< 0.03	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.37	U		< 0.37	U		< 0.37	U		< 0.37	U		< 1.1	U		< 0.37	U		< 0.37	U		< 0.03	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1.1	U		< 0.35	U		< 0.35	U		< 0.028	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.99	U		< 0.33	U		< 0.33	U		< 0.028	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 1	U		< 0.33	U		< 0.33	U		< 0.027	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U		< 1.1	U		< 0.36	U		< 0.36	U		< 0.049	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 1	U		< 0.33	U		< 0.33	U		< 0.028	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 1	U		< 0.33	U		< 0.33	U		< 0.024	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.031	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1.1	U		< 0.35	U		< 0.35	U		< 0.027	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.98	UF1F2	UJ	< 0.33	U		< 0.33	U		< 0.025	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.027	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.025	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.028	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.028	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U		< 1	U		< 0.35	U		< 0.35	U		< 0.037	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.043	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U		< 1	U		< 0.34	U		< 0.34	U		< 0.026	U	UJ

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Butanone (MEK)		
Screening Criteria (mg/kg)				270			0.2			1			9			0.2			0.0008			0.0007					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			--			--			--			--			--			--			< 0.721	U	
SB-103	SB103-43-051723	43	5/17/2023	--			--			--			--			--			--			--			< 0.609	U	
SB-103	SB103-58-051723	58	5/17/2023	--			--			--			--			--			--			--			< 0.0254	U	
SB-103	SB103-68-051323	68	5/17/2023	--			--			--			--			--			--			--			< 6.68	U	
SB-103	SB103-77-052423	77	5/24/2023	--			--			--			--			--			--			--			0.0574		
SB-104	SB104-42-062023	42	6/20/2023	--			--			--			--			--			--			--			< 3.35	U	
SB-104	SB104-57-062023	57	6/20/2023	--			--			--			--			--			--			--			< 28.9	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			--			--			--			--			--			--			< 26.6	U	
SB-104	SB104-65-062023	65	6/20/2023	--			--			--			--			--			--			--			< 0.751	U	
SB-104	SB104-78-062023	78	6/20/2023	--			--			--			--			--			--			--			< 0.76	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	--			--			--			--			--			--			--			< 5.75	U	
SB-105	SB105-55-062023	55	6/20/2023	--			--			--			--			--			--			--			< 0.759	U	
SB-105	SB105-67-062023	67	6/20/2023	--			--			--			--			--			--			--			< 0.648	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	--			--			--			--			--			--			--			< 0.0239	U	
SB-106	SB106-39-061923	39	6/19/2023	--			--			--			--			--			--			--			< 0.726	U	
SB-106	SB106-45-061923	45	6/19/2023	--			--			--			--			--			--			--			< 0.77	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			--			--			--			--			--			--			< 0.775	U	
SB-106	SB106-58-061923	58	6/19/2023	--			--			--			--			--			--			--			< 8.65	U	
SB-106	SB106-68-061923	68	6/19/2023	--			--			--			--			--			--			--			< 0.0233	U	
SB-106	SB106-77-061923	77	6/19/2023	--			--			--			--			--			--			--			< 0.653	U	
SB-107	SB107-15-061723	15	6/17/2023	--			--			--			--			--			--			--			< 5.58	U	
SB-107	SB107-39-061723	39	6/17/2023	--			--			--			--			--			--			--			< 4.74	U	
SB-107	SB107-58-061723	58	6/17/2023	--			--			--			--			--			--			--			< 1.57	U	
SB-107	SB107-67-061723	67	6/17/2023	--			--			--			--			--			--			--			< 5.65	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	--			--			--			--			--			--			--			< 0.601	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			--			--			--			--			--			--			< 0.0294	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			--			--			--			--			--			--			< 6.22	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			--			--			--			--			--			--			< 29	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			--			--			--			--			--			--			< 0.0358	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			--			--			--			--			--			--			< 11.2	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			--			--			--			--			--			--			< 5.25	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			--			--			--			--			--			--			< 6.69	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			--			--			--			--			--			--			< 0.746	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			--			--			--			--			--			--			< 0.0265	U	
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			--			--			--			--			--			--			< 1.52	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			--			--			--			--			--			--			< 56.7	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			--			--			--			--			--			--			< 14	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			--			--			--			--			--			--			< 6.03	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			--			--			--			--			--			--			< 5.61	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			--			--			--			--			--			--			< 44.9	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			--			--			--			--			--			--			< 1.74	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			--			--			--			--			--			--			< 1.15	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			--			--			--			--			--			--			< 254	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			--			--			--			--			--			--			< 0.823	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			--			--			--			--			--			--			< 0.712	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			--			--			--			--			--			--			< 2.69	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			--			--			--			--			--			--			< 0.673	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			--			--			--			--			--			--			< 13.1	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			--			--			--			--			--			--			< 0.638	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			--			--			--			--			--			--			< 0.645	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			--			--			--			--			--			--			< 23.6	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			--			--			--			--			--			--			< 0.718	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			--			--			--			--			--			--			< 1.58	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			--			--			--			--			--			--			< 0.626	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			--			--			--			--			--			--			< 0.724	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			--			--			--			--			--			--			< 0.575	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			--			--			--			--			--			--			< 5.59	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2,4,5-Trichlorophenol			2,4,6-Trichlorophenol			2,4-Dichlorophenol			2,4-Dimethylphenol			2,4-Dinitrophenol			2,4-Dinitrotoluene			2,6-Dinitrotoluene			2-Butanone (MEK)		
Screening Criteria (mg/kg)				270			0.2			1			9			0.2			0.0008			0.0007					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			--			--			--			--			--			--			< 0.0278	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			--			--			--			--			--			--			< 5.52	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			--			--			--			--			--			--			< 5.54	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			--			--			--			--			--			--			< 0.0301	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			--			--			--			--			--			--			< 4.71	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			--			--			--			--			--			--			< 271	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			--			--			--			--			--			--			< 153	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			--			--			--			--			--			--			< 17.6	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			--			--			--			--			--			--			< 2.72	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			--			--			--			--			--			--			< 0.96	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			--			--			--			--			--			--			< 0.649	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			--			--			--			--			--			--			< 5.28	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			--			--			--			--			--			--			< 6.02	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			--			--			--			--			--			--			< 11	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			--			--			--			--			--			--			< 28.6	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			--			--			--			--			--			--			< 29.1	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			--			--			--			--			--			--			< 0.727	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			--			--			--			--			--			--			< 5.92	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			--			--			--			--			--			--			< 5.53	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			--			--			--			--			--			--			< 5.67	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			--			--			--			--			--			--			< 5.27	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			--			--			--			--			--			--			< 5.61	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			--			--			--			--			--			--			< 64.1	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			--			--			--			--			--			--			< 0.872	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			--			--			--			--			--			--			< 3.62	U	
T-AB2	TAB2-48-061523	48	6/15/2023	--			--			--			--			--			--			--			< 0.791	U	
T-AB2	TAB2-59-061523	59	6/15/2023	--			--			--			--			--			--			--			< 10.5	U	
T-BG2	TBG2-48-071123	48	7/11/2023	--			--			--			--			--			--			--			< 0.0283	U	
T-BG2	TBG2-59-071123	59	7/11/2023	--			--			--			--			--			--			--			< 0.0253	U	
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			--			--			--			--			--			--			< 0.0269	U	
X-AD2	XAD2-49-052323	49	5/23/2023	--			--			--			--			--			--			--			< 6.41	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			--			--			--			--			--			--			< 5.87	U	
X-AD2	XAD2-58-052323	58	5/23/2023	--			--			--			--			--			--			--			< 5.54	U	
X-AE4	XAE4-40-030223	40	3/2/2023	--			--			--			--			--			--			--			< 155	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			--			--			--			--			--			--			< 150	U	
X-AE4	XAE4-48-030223	48	3/2/2023	--			--			--			--			--			--			--			< 0.0254	U	
X-AE4	XAE4-52-030223	52	3/2/2023	--			--			--			--			--			--			--			< 5.5	U	
X-AF6	XAF6-40-022723	40	2/27/2023	--			--			--			--			--			--			--			< 7.84	U	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			--			--			--			--			--			--			< 28.9	U	
X-AF6	XAF6-47-022723	47	2/27/2023	--			--			--			--			--			--			--			< 0.0294	U	
X-AF6	XAF6-58-022723	58	2/27/2023	--			--			--			--			--			--			--			< 6.11	U	
X-AG5	XAG5-40-031823	40	3/18/2023	--			--			--			--			--			--			--			< 129	U	
X-AG5	XAG5-49-031823	49	3/18/2023	--			--			--			--			--			--			--			< 6.88	U	
X-AG5	XAG5-56-031823	56	3/18/2023	--			--			--			--			--			--			--			< 1.2	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			--			--			--			--			--			--			< 298	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			--			--			--			--			--			--			< 5.97	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			--			--			--			--			--			--			< 12.5	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			--			--			--			--			--			--			< 1.23	U	
X-BB2	XBB2-4-030123	4	3/1/2023	--			--			--			--			--			--			--			**0.026**	J	
X-BB2	XBB2-9-030123	9	3/1/2023	--			--			--			--			--			--			--			**0.0300**		
X-BB2	XBB2-38-051823	38	5/18/2023	--			--			--			--			--			--			--			< 57.2	U	
X-BB2	XBB2-47-051823	47	5/18/2023	--			--			--			--			--			--			--			< 121	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			--			--			--			--			--			--			< 309	U	
X-BC3	XBC3-4-022423	4	2/24/2023	--			--			--			--			--			--			--			< 0.0230	U	
X-BC3	XBC3-9-022423	9	2/24/2023	--			--			--			--			--			--			--			< 0.0264	U	
X-BC3	XBC3-38-062123	38	6/21/2023	--			--			--			--			--			--			--			< 0.862	U	
X-BC3	XBC3-47-062123	47	6/21/2023	--			--			--			--			--			--			--			< 57.1	U	
X-BC3	XBC3-58-062123	58	6/21/2023	--			--			--			--			--			--			--			< 13.3	U	

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Table 3
Pre-SEE Soil Analytical Results

				2-Chloroethylvinylether			2-Chloronaphthalene			2-Chlorophenol			2-Chlorotoluene			2-Hexanone			2-Methyl-4,6-dinitrophenol			2-Methylnaphthalene			2-Methylphenol		
Screening Criteria (mg/kg)																								15		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.011	U		< 0.33	U		< 0.33	U		< 0.0053	U		< 0.027	U		< 0.33	U	UJ	< 0.0066	JB	U	< 0.33	U	
SB-101	SB101-48-120722	48	12/7/2022	< 27	U		< 0.39	U		< 0.39	U		< 13	U		< 66	U		< 0.39	U	UJ	< 0.0077	JB	U	< 0.39	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 14	U		< 0.4	U		< 0.4	U		< 3.6	U		< 18	U		< 0.4	U	UJ	0.025	B		< 0.4	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0093	U		< 0.39	U		< 0.39	U		< 0.0046	U		< 0.023	U		< 0.39	U		< 0.0078	JB	U	< 0.39	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.011	U		< 0.35	U		< 0.35	U		< 0.0054	U		< 0.027	U		< 0.35	U*	UJ	0.0027	J		< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.75	U	UJ	< 0.38	U		< 0.38	U		< 0.38	U	UJ	< 1.9	U	UJ	< 0.38	U		< 0.0076	JB	U	< 0.38	U	
SB-102	SB102-52-120622	52	12/6/2022	< 1.1	U	UJ	< 0.41	U		< 0.41	U		< 0.55	U	UJ	< 2.7	U	UJ	< 0.41	U		0.14	B		< 0.41	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.75	U	UJ	< 0.41	U		< 0.41	U		< 0.37	U	UJ	< 1.9	U	UJ	< 0.41	U		0.15	B		< 0.41	U	
SB-102	SB102-55-120622	55	12/6/2022	< 23	U	UJ	< 0.38	U		< 0.38	U		< 12	U	UJ	< 58	U	UJ	< 0.38	U		4.7	B		< 0.38	U	
SB-102	SB102-72-120622	72	12/6/2022	< 0.0086	U	UJ	< 0.34	U		< 0.34	U		< 0.0043	U	UJ	< 0.022	U	UJ	< 0.34	U		0.025	B		< 0.34	U	
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.011	U		< 0.33	U		< 0.33	U		< 0.0054	U		< 0.027	U		< 0.33	U*	UJ	0.0020	J		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.012	U	UJ	< 0.37	U		< 0.37	U		< 0.0062	U	UJ	< 0.031	U	UJ	< 0.37	UF2		< 0.0074	U		< 0.37	U	
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.01	U	UJ	< 0.34	U		< 0.34	U		< 0.0051	U	UJ	< 0.026	U	UJ	< 0.34	U		< 0.0068	JB	U	< 0.34	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0057	U		< 0.028	U		< 0.34	U*	UJ	< 0.0067	U		< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.01	U	UJ	< 0.34	U		< 0.34	U		< 0.0069	U	UJ	< 0.034	U	UJ	< 0.34	U	UJ	< 0.0069	JB	U	< 0.34	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0096	U	UJ	< 0.34	U		< 0.34	U		< 0.0051	U	UJ	< 0.026	U	UJ	< 0.34	U	UJ	< 0.0067	U		< 0.34	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.012	U		< 0.41	U		< 0.41	U		< 0.0060	U		< 0.03	U		< 0.41	U		< 0.0083	JB	U	< 0.41	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.01	U		< 0.32	U		< 0.32	U		< 0.0052	U		< 0.026	U		< 0.32	U		< 0.0065	JB	U	< 0.32	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.011	U		< 0.36	U		< 0.36	U		< 0.0055	U		< 0.027	U		< 0.36	U		< 0.0072	U		< 0.36	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.011	U		< 0.44	U		< 0.44	U		< 0.0053	U		< 0.027	U		< 0.44	U		< 0.0088	U		< 0.44	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.011	U		< 0.33	U		< 0.33	U		< 0.0053	U		< 0.026	U		< 0.33	U		< 0.0065	U		< 0.33	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.012	U		< 0.34	U		< 0.34	U		< 0.0058	U		< 0.029	U		< 0.34	U		< 0.0067	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0054	U		< 0.027	U		< 0.34	U		< 0.0067	JB	U	< 0.34	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.011	U		< 0.35	U		< 0.35	U		< 0.0053	U		< 0.026	U		< 0.35	U		< 0.0069	U		< 0.35	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.02	U		< 0.33	U		< 0.33	U		< 0.01	U		< 0.051	U		< 0.33	U		< 0.0066	JB	U	< 0.33	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.0068	U		< 0.34	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0054	U		< 0.027	U		< 0.34	U		< 0.0069	U		< 0.34	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.016	U		< 0.33	U		< 0.33	U		< 0.0081	U		< 0.04	U		< 0.33	U		< 0.0067	U		< 0.33	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.014	U		< 0.36	U		< 0.36	U		< 0.0072	U		< 0.036	U		< 0.36	U		< 0.0071	U		< 0.36	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.014	U		< 0.36	U		< 0.36	U		< 0.0068	U		< 0.034	U		< 0.36	U		< 0.0071	U		< 0.36	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.011	U		< 0.41	U		< 0.41	U		< 0.0053	U		< 0.026	U		< 0.41	U		< 0.0083	U		< 0.41	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0072	U		< 0.34	U		< 0.34	U		< 0.0036	U		< 0.018	U		< 0.34	U		< 0.0068	U		< 0.34	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.012	U		< 0.34	U		< 0.34	U		< 0.0058	U		< 0.029	U		< 0.34	U		< 0.0067	U		< 0.34	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0056	U		< 0.028	U		< 0.34	U		< 0.0067	U		< 0.34	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.0067	U		< 0.34	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.012	U		< 0.35	U		< 0.35	U		< 0.0062	U		< 0.031	U		< 0.35	U		< 0.0070	U		< 0.35	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.0069	U		< 0.34	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.012	U		< 0.35	U		< 0.35	U		< 0.0061	U		< 0.03	U		< 0.35	U		< 0.0069	U		< 0.35	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.012	U		< 0.37	U		< 0.37	U		< 0.0059	U		< 0.03	U		< 0.37	U		< 0.0074	U		< 0.37	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.011	U		< 0.35	U		< 0.35	U		< 0.0056	U		< 0.028	U		< 0.35	U		0.0019	J		< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.011	U		< 0.33	U		< 0.33	U		< 0.0056	U		< 0.028	U		< 0.33	U		< 0.0066	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.011	U		< 0.33	U		< 0.33	U		< 0.0053	U		< 0.027	U		< 0.33	U		< 0.0067	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.02	U		< 0.36	U		< 0.36	U		< 0.0098	U		< 0.049	U		< 0.36	U		< 0.0072	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.011	U		< 0.33	U		< 0.33	U		< 0.0056	U		< 0.028	U		< 0.33	U		< 0.0067	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0098	U		< 0.33	U		< 0.33	U		< 0.0049	U		< 0.024	U		< 0.33	U		< 0.0067	U		< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.0068	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.012	U		< 0.34	U		< 0.34	U		< 0.0062	U		< 0.031	U		< 0.34	U		< 0.0069	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.011	U		< 0.35	U		< 0.35	U		< 0.0055	U		< 0.027	U		< 0.35	U		0.0029	J		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.01	U		< 0.33	U		< 0.33	U		< 0.0051	U		< 0.025	U		< 0.33	UF2		0.0018	J		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.01	U		< 0.34	U		< 0.34	U		< 0.0052	U		< 0.026	U		< 0.34	U		< 0.0068	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0054	U		< 0.027	U		< 0.34	U	UJ	< 0.0067	U		< 0.34	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.01	U		< 0.34	U		< 0.34	U		< 0.0051	U		< 0.025	U		< 0.34	U	UJ	< 0.0068	U		< 0.34	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0056	U		< 0.028	U		< 0.34	U	UJ	< 0.0069	U		< 0.34	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.011	U		< 0.34	U		< 0.34	U		< 0.0056	U		< 0.028	U		< 0.34	U	UJ	< 0.0068	U		< 0.34	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.015	U	UJ	< 0.35	U		< 0.35	U		< 0.0074	U	UJ	< 0.037	U	UJ	< 0.35	U		0.0025	J		< 0.35	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.017	U	UJ	< 0.34	U		< 0.34	U		< 0.0085	U	UJ	< 0.043	U	UJ	< 0.34	U		< 0.0067	U		< 0.34	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.01	U	UJ	< 0.34	U		< 0.34	U		< 0.0051	U	UJ	< 0.026	U	UJ	< 0.34	U		< 0.0068	U		< 0.34	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2-Chloroethylvinylether			2-Chloronaphthalene			2-Chlorophenol			2-Chlorotoluene			2-Hexanone			2-Methyl-4,6-dinitrophenol			2-Methylnaphthalene			2-Methylphenol		
Screening Criteria (mg/kg)																									15		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			--			--			< 0.0577	U		< 0.721	U		--			--			--		
SB-103	SB103-43-051723	43	5/17/2023	--			--			--			< 0.0487	U		< 0.609	U		--			--			--		
SB-103	SB103-58-051723	58	5/17/2023	--			--			--			< 0.0020	U		< 0.0254	U		--			--			--		
SB-103	SB103-68-051323	68	5/17/2023	--			--			--			< 0.534	U		< 6.68	U		--			--			--		
SB-103	SB103-77-052423	77	5/24/2023	--			--			--			< 0.0019	U		< 0.0235	U		--			--			--		
SB-104	SB104-42-062023	42	6/20/2023	--			--			--			< 0.268	U		< 3.35	U		--			--			--		
SB-104	SB104-57-062023	57	6/20/2023	--			--			--			< 2.31	U		< 28.9	U		--			--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			--			--			< 2.12	U		< 26.6	U		--			--			--		
SB-104	SB104-65-062023	65	6/20/2023	--			--			--			< 0.0601	U		< 0.751	U		--			--			--		
SB-104	SB104-78-062023	78	6/20/2023	--			--			--			< 0.0608	U	UJ	< 0.76	U	UJ	--			--			--		
SB-105	SB105-40-062023	40	6/20/2023	--			--			--			< 0.46	U		< 5.75	U		--			--			--		
SB-105	SB105-55-062023	55	6/20/2023	--			--			--			< 0.0607	U		< 0.759	U		--			--			--		
SB-105	SB105-67-062023	67	6/20/2023	--			--			--			< 0.0518	U	UJ	< 0.648	U	UJ	--			--			--		
SB-105	SB105-73-062023	73	6/20/2023	--			--			--			< 0.0019	U		< 0.0239	U		--			--			--		
SB-106	SB106-39-061923	39	6/19/2023	--			--			--			< 0.0581	U		< 0.726	U		--			--			--		
SB-106	SB106-45-061923	45	6/19/2023	--			--			--			< 0.0616	U	UJ	< 0.77	U	UJ	--			--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			--			--			< 0.0620	U		< 0.775	U		--			--			--		
SB-106	SB106-58-061923	58	6/19/2023	--			--			--			< 0.692	U		< 8.65	U		--			--			--		
SB-106	SB106-68-061923	68	6/19/2023	--			--			--			< 0.0019	U		< 0.0233	U		--			--			--		
SB-106	SB106-77-061923	77	6/19/2023	--			--			--			< 0.0523	U		< 0.653	U		--			--			--		
SB-107	SB107-15-061723	15	6/17/2023	--			--			--			< 0.446	U		< 5.58	U		--			--			--		
SB-107	SB107-39-061723	39	6/17/2023	--			--			--			< 0.379	U		< 4.74	U		--			--			--		
SB-107	SB107-58-061723	58	6/17/2023	--			--			--			< 0.125	U		< 1.57	U		--			--			--		
SB-107	SB107-67-061723	67	6/17/2023	--			--			--			< 0.452	U	UJ	< 5.65	U	UJ	--			--			--		
SB-107	SB107-78-061723	78	6/17/2023	--			--			--			< 0.0481	U		< 0.601	U		--			--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			--			--			< 0.0024	U		< 0.0294	U		--			--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			--			--			< 0.498	U		< 6.22	U		--			--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			--			--			< 2.32	U		< 29	U		--			--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			--			--			< 0.0029	U		< 0.0358	U		--			--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			--			--			< 0.893	U		< 11.2	U		--			--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			--			--			< 0.42	U		< 5.25	U		--			--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			--			--			< 0.535	U		< 6.69	U		--			--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			--			--			< 0.0597	U		< 0.746	U		--			--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			--			--			< 0.0021	U		< 0.0265	U		--			--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			--			--			< 0.122	U		< 1.52	U		--			--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			--			--			< 4.54	U		< 56.7	U		--			--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			--			--			< 1.12	U		< 14	U		--			--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			--			--			< 0.482	U		< 6.03	U		--			--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			--			--			< 0.449	U		< 5.61	U		--			--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			--			--			< 3.59	U		< 44.9	U		--			--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			--			--			< 0.139	U		< 1.74	U		--			--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			--			--			< 0.0920	U		< 1.15	U		--			--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			--			--			< 20.3	U		< 254	U		--			--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			--			--			< 0.0658	U		< 0.823	U		--			--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			--			--			< 0.0570	U		< 0.712	U		--			--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			--			--			< 0.216	U		< 2.69	U		--			--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			--			--			< 0.0539	U		< 0.673	U		--			--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			--			--			< 1.05	U		< 13.1	U		--			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			--			--			< 0.0510	U		< 0.638	U		--			--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			--			--			< 0.0516	U		< 0.645	U		--			--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			--			--			< 1.89	U		< 23.6	U		--			--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			--			--			< 0.0575	U		< 0.718	U		--			--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			--			--			< 0.126	U		< 1.58	U		--			--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			--			--			< 0.0501	U		< 0.626	U		--			--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			--			--			< 0.0579	U		< 0.724	U		--			--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			--			--			< 0.0460	U		< 0.575	U		--			--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			--			--			< 0.447	U		< 5.59	U		--			--			--		

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Pre-SEE Soil Analytical Results

				2-Chloroethylvinylether			2-Chloronaphthalene			2-Chlorophenol			2-Chlorotoluene			2-Hexanone			2-Methyl-4,6-dinitrophenol			2-Methylnaphthalene			2-Methylphenol		
Screening Criteria (mg/kg)																									15		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			--			--			< 0.0022	U		< 0.0278	U		--			--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			--			--			< 0.442	U		< 5.52	U		--			--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			--			--			< 0.444	U		< 5.54	U		--			--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			--			--			< 0.0024	U		< 0.0301	U		--			--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			--			--			< 0.377	U		< 4.71	U		--			--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			--			--			< 21.7	U		< 271	U		--			--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			--			--			< 12.3	U		< 153	U		--			--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			--			--			< 1.41	U		< 17.6	U		--			--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			--			--			< 0.218	U		< 2.72	U		--			--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			--			--			< 0.0768	U	UJ	< 0.96	U	UJ	--			--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			--			--			< 0.0519	U		< 0.649	U		--			--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			--			--			< 0.423	U		< 5.28	U		--			--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			--			--			< 0.481	U		< 6.02	U		--			--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			--			--			< 0.88	U		< 11	U		--			--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			--			--			< 2.29	U		< 28.6	U		--			--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			--			--			< 2.33	U		< 29.1	U		--			--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			--			--			< 0.0581	U		< 0.727	U		--			--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			--			--			< 0.474	U		< 5.92	U		--			--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			--			--			< 0.443	U		< 5.53	U		--			--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			--			--			< 0.453	U		< 5.67	U		--			--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			--			--			< 0.421	U		< 5.27	U		--			--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			--			--			< 0.449	U		< 5.61	U		--			--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			--			--			< 5.13	U		< 64.1	U		--			--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			--			--			< 0.0698	U		< 0.872	U		--			--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			--			--			< 0.29	U		< 3.62	U		--			--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	--			--			--			< 0.0633	U		< 0.791	U		--			--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	--			--			--			< 0.836	U		< 10.5	U		--			--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	--			--			--			< 0.0023	U		< 0.0283	U		--			--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	--			--			--			< 0.0020	U		< 0.0253	U		--			--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			--			--			< 0.0022	U		< 0.0269	U		--			--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	--			--			--			< 0.512	U		< 6.41	U		--			--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			--			--			< 0.469	U		< 5.87	U		--			--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	--			--			--			< 0.444	U		< 5.54	U		--			--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	--			--			--			< 12.4	U		< 155	U		--			--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			--			--			< 12	U		< 150	U		--			--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	--			--			--			< 0.0020	U		< 0.0254	U		--			--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	--			--			--			< 0.44	U		< 5.5	U		--			--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	--			--			--			< 0.627	U		< 7.84	U		--			--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			--			--			< 2.31	U		< 28.9	U		--			--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	--			--			--			< 0.0024	U		< 0.0294	U		--			--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	--			--			--			< 0.489	U		< 6.11	U		--			--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	--			--			--			< 10.3	U		< 129	U		--			--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	--			--			--			< 0.551	U		< 6.88	U		--			--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	--			--			--			< 0.0963	U		< 1.2	U		--			--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			--			--			< 23.8	U		< 298	U		--			--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			--			--			< 0.477	U		< 5.97	U		--			--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			--			--			< 0.997	U		< 12.5	U		--			--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			--			--			< 0.0980	U		< 1.23	U	UJ	--			--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	--			--			--			< 0.0022	U		< 0.0272	U		--			--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	--			--			--			< 0.0023	U		**0.0026**	J		--			--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	--			--			--			< 4.57	U		< 57.2	U		--			--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	--			--			--			< 9.71	U		< 121	U		--			--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			--			--			< 24.7	U		< 309	U		--			--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	--			--			--			< 0.0018	U		< 0.0230	U		--			--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	--			--			--			< 0.0021	U		< 0.0264	U		--			--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	--			--			--			**0.339**			< 0.862	U		--			--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	--			--			--			< 4.56	U		< 57.1	U		--			--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	--			--			--			< 1.07	U		< 13.3	U		--			--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2-Nitroaniline			2-Nitrophenol			3&4-Methylphenol			3,3-Dichlorobenzidine			3-Nitroaniline			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol			4-Chloroaniline		
Screening Criteria (mg/kg)													0.007												0.7		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.33	U		< 0.33	UF1	UJ	< 0.66	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.39	U		< 0.39	U	UJ	< 0.77	U		< 0.39	U*+		< 0.39	U		< 0.39	U		< 0.39	U		< 0.39	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.4	U		< 0.4	U	UJ	< 0.8	U		< 0.4	U*+		< 0.4	U		< 0.4	U		< 0.4	U		< 0.4	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.39	U		< 0.39	U	UJ	< 0.78	U		< 0.39	UF1*+		< 0.39	U*+		< 0.39	U		< 0.39	U	UJ	< 0.39	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.35	U		< 0.35	U		< 0.69	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U		< 0.38	U		< 0.76	U		< 0.38	U*+		< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U	
SB-102	SB102-52-120622	52	12/6/2022	< 0.41	U		< 0.41	U		< 0.82	U		< 0.41	U*+		< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.41	U		< 0.41	U		< 0.83	U		< 0.41	U*+		< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U	
SB-102	SB102-55-120622	55	12/6/2022	< 0.38	U		< 0.38	U		< 0.76	U		< 0.38	U*+		< 0.38	U		< 0.38	U		< 0.38	U		1.4		
SB-102	SB102-72-120622	72	12/6/2022	< 0.34	U		< 0.34	U		< 0.69	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.33	U		< 0.33	U		< 0.66	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.37	U		< 0.37	UF1	UJ	< 0.74	U		< 0.37	U*+		< 0.37	UF2*+		< 0.37	U		< 0.37	U		< 0.37	UF1	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.34	U		< 0.34	U		< 0.68	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.34	U		< 0.34	U		< 0.67	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.34	U		< 0.34	U	UJ	< 0.69	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.34	U		< 0.34	U	UJ	< 0.67	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.41	U		< 0.41	U		< 0.83	U		< 0.41	U*+		< 0.41	U*+		< 0.41	U		< 0.41	U		< 0.41	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.32	U		< 0.32	U		< 0.65	U		< 0.32	U*+		< 0.32	U*+		< 0.32	U		< 0.32	U		< 0.32	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.36	U		< 0.36	U		< 0.72	U		< 0.36	U*+		< 0.36	U*+		< 0.36	U		< 0.36	U		< 0.36	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.44	U		< 0.44	U		< 0.88	U		< 0.44	U*+		< 0.44	U*+		< 0.44	U		< 0.44	U		< 0.44	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.33	U		< 0.33	U		< 0.65	U		< 0.33	U*+		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.34	U		< 0.34	U		< 0.67	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.34	U		< 0.34	U	UJ	< 0.67	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.35	U		< 0.35	U	UJ	< 0.69	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.33	U		< 0.33	U	UJ	< 0.66	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.34	U		< 0.34	U		< 0.68	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.34	U		< 0.34	U		< 0.69	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.33	U		< 0.33	U		< 0.67	U		< 0.33	U*+		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.36	U		< 0.36	U		< 0.71	U		< 0.36	U*+		< 0.36	U*+		< 0.36	U		< 0.36	U		< 0.36	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.36	U		< 0.36	U	UJ	< 0.71	U		< 0.36	U*+		< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U*1	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.41	U		< 0.41	U	UJ	< 0.83	U		< 0.41	U*+		< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U*1	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.34	U		< 0.34	U	UJ	< 0.68	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U*1	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.34	U		< 0.34	U		< 0.67	U		< 0.34	UF1*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.34	U		< 0.34	U		< 0.67	U		< 0.34	U*+F1		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.34	U		< 0.34	U		< 0.67	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.35	U		< 0.35	U		< 0.7	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.34	U		< 0.34	U		< 0.69	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.35	U		< 0.35	U		< 0.69	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.37	U		< 0.37	U		< 0.74	U		< 0.37	U*+		< 0.37	U		< 0.37	U		< 0.37	U		< 0.37	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.35	U		< 0.35	U		< 0.7	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.33	U		< 0.33	U		< 0.66	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.33	U		< 0.33	U		< 0.67	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.36	U		< 0.36	U		< 0.72	U		< 0.36	U*+		< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.33	U		< 0.33	U		< 0.67	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.33	U		< 0.33	U		< 0.67	U		< 0.33	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.34	U		< 0.34	U		< 0.68	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.34	U		< 0.34	U		< 0.69	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.35	U		< 0.35	U		< 0.71	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.33	U		< 0.33	U		< 0.65	U		< 0.33	U*+F1		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.34	U		< 0.34	U		< 0.68	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.67	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.68	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.69	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.68	U		< 0.34	U*+		< 0.34	U*+		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.35	U		< 0.35	U		< 0.7	U		< 0.35	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.34	U		< 0.34	U		< 0.67	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.34	U		< 0.34	U		< 0.68	U		< 0.34	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2-Nitroaniline			2-Nitrophenol			3&4-Methylphenol			3,3-Dichlorobenzidine			3-Nitroaniline			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol			4-Chloroaniline		
Screening Criteria (mg/kg)													0.007												0.7		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-43-051723	43	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-58-051723	58	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-68-051323	68	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-77-052423	77	5/24/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-42-062023	42	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-57-062023	57	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-65-062023	65	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-78-062023	78	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-40-062023	40	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-55-062023	55	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-67-062023	67	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-73-062023	73	6/20/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-39-061923	39	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-45-061923	45	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-58-061923	58	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-68-061923	68	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-77-061923	77	6/19/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-15-061723	15	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-39-061723	39	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-58-061723	58	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-67-061723	67	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-78-061723	78	6/17/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			--			--			--			--			--			--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			--			--			--			--			--			--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			--			--			--			--			--			--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			--			--			--			--			--			--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			--			--			--			--			--			--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			--			--			--			--			--			--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			--			--			--			--			--			--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			--			--			--			--			--			--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			--			--			--			--			--			--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			--			--			--			--			--			--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			--			--			--			--			--			--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			--			--			--			--			--			--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			--			--			--			--			--			--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			--			--			--			--			--			--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			--			--			--			--			--			--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			--			--			--			--			--			--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			--			--			--			--			--			--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			--			--			--			--			--			--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			--			--			--			--			--			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			--			--			--			--			--			--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			--			--			--			--			--			--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			--			--			--			--			--			--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			--			--			--			--			--			--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			--			--			--			--			--			--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			--			--			--			--			--			--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			--			--			--			--			--			--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			--			--			--			--			--			--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			--			--			--			--			--			--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				2-Nitroaniline			2-Nitrophenol			3&4-Methylphenol			3,3-Dichlorobenzidine			3-Nitroaniline			4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol			4-Chloroaniline		
Screening Criteria (mg/kg)													0.007												0.7		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			--			--			--			--			--			--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			--			--			--			--			--			--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			--			--			--			--			--			--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			--			--			--			--			--			--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			--			--			--			--			--			--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			--			--			--			--			--			--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			--			--			--			--			--			--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			--			--			--			--			--			--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			--			--			--			--			--			--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			--			--			--			--			--			--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			--			--			--			--			--			--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			--			--			--			--			--			--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			--			--			--			--			--			--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			--			--			--			--			--			--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			--			--			--			--			--			--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			--			--			--			--			--			--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			--			--			--			--			--			--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			--			--			--			--			--			--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			--			--			--			--			--			--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			--			--			--			--			--			--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			--			--			--			--			--			--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	--			--			--			--			--			--			--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	--			--			--			--			--			--			--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	--			--			--			--			--			--			--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	--			--			--			--			--			--			--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			--			--			--			--			--			--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	--			--			--			--			--			--			--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			--			--			--			--			--			--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	--			--			--			--			--			--			--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	--			--			--			--			--			--			--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	--			--			--			--			--			--			--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	--			--			--			--			--			--			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				4-Chlorophenyl phenyl ether			4-Chlorotoluene			4-Methyl-2-Pentanone (MIBK)			4-Nitroaniline			4-Nitrophenol			Acenaphthene			Acenaphthylene			Acetone		
Screening Criteria (mg/kg)																		570						25		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.33	U		< 0.0053	UF1		< 0.027	U		< 0.33	U		< 0.33	UF1		< 0.0066	U		< 0.0066	U		< 0.027	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.39	U		< 13	U		< 66	U		< 0.39	U		< 0.39	U		< 0.0077	U		0.0018	J		< 66	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.4	U		< 3.6	U		< 18	U		< 0.4	U		< 0.4	U		< 0.0080	U		< 0.0080	U		< 18	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.39	U		< 0.0046	U		< 0.023	U		< 0.39	U		< 0.39	U		< 0.0078	U		< 0.0078	U		< 0.023	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.35	U		< 0.0054	U		< 0.027	U		< 0.35	U		< 0.35	U		0.0011	J		0.0018	J		< 0.027	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U		< 0.38	U	UJ	< 1.9	U	UJ	< 0.38	U		< 0.38	U		0.0069	J		< 0.0076	JB	U	< 1.9	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.41	U		< 0.55	U	UJ	< 2.7	U	UJ	< 0.41	U		< 0.41	U		0.014			< 0.0080	JB	U	< 2.7	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.41	U		< 0.37	U	UJ	< 1.9	U	UJ	< 0.41	U		< 0.41	U		0.014			< 0.0081	JB	U	< 1.9	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	< 0.38	U		< 12	U	UJ	< 58	U	UJ	< 0.38	U		< 0.38	U		0.021			0.012			< 58	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	< 0.34	U		< 0.0043	U	UJ	< 0.022	U	UJ	< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U		< 0.022	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.33	U		< 0.0054	U		< 0.027	U		< 0.33	U		< 0.33	U		0.0020	J		0.0017	J		< 0.027	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.37	U		< 0.0062	U	UJ	< 0.031	U	UJ	< 0.37	UF2		< 0.37	UF2		< 0.0074	U		< 0.0074	U		< 0.031	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.34	U		< 0.0051	U	UJ	< 0.026	U	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.026	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.34	U		< 0.0057	U		< 0.028	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.028	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.34	U		< 0.0069	U	UJ	< 0.034	U	UJ	< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U		< 0.034	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.34	U		< 0.0051	U	UJ	< 0.026	U	UJ	< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.026	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.41	U		< 0.0060	U		< 0.03	U		< 0.41	U		< 0.41	U		< 0.0083	U		< 0.0083	U		< 0.03	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.32	U		< 0.0052	U		< 0.026	U		< 0.32	U		< 0.32	U		< 0.0065	U		< 0.0065	U		< 0.026	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.36	U		< 0.0055	U		< 0.027	U		< 0.36	U		< 0.36	U		< 0.0072	U		< 0.0072	U		< 0.027	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.44	U		< 0.0053	U		< 0.027	U		< 0.44	U		< 0.44	U		< 0.0088	U		< 0.0088	U		< 0.027	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.33	U		< 0.0053	U		< 0.026	U		< 0.33	U		< 0.33	U		< 0.0065	U		< 0.0065	U		< 0.026	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.34	U		< 0.0058	U		< 0.029	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.029	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.34	U		< 0.0054	U		< 0.027	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.027	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.35	U		< 0.0053	U		< 0.026	U		< 0.35	U		< 0.35	U		< 0.0069	U		< 0.0069	U		< 0.026	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.33	U		< 0.01	U		< 0.051	U		< 0.33	U		< 0.33	U		< 0.0066	U		< 0.0066	U		< 0.051	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.026	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.34	U		< 0.0054	U		< 0.027	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U		< 0.027	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.33	U		< 0.0081	U		< 0.04	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.0067	U		< 0.04	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.36	U		< 0.0072	U		< 0.036	U		< 0.36	U		< 0.36	U		< 0.0071	U		< 0.0071	U		< 0.036	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.36	U		< 0.0068	U		< 0.034	U		< 0.36	U		< 0.36	U		< 0.0071	U		< 0.0071	U		< 0.034	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.41	U		< 0.0053	U		< 0.026	U		< 0.41	U		< 0.41	U		< 0.0083	U		< 0.0083	U		< 0.026	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.34	U		< 0.0036	U		< 0.018	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.018	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.34	U		< 0.0058	U		< 0.029	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.029	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.34	U		< 0.0056	U		< 0.028	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.028	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.026	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.35	U		< 0.0062	U		< 0.031	U		< 0.35	U		< 0.35	U		< 0.0070	U		< 0.0070	U		< 0.031	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U		< 0.026	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.35	U		< 0.0061	U		< 0.03	U		< 0.35	U		< 0.35	U		< 0.0069	U		< 0.0069	U		< 0.03	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.37	U		< 0.0059	U		< 0.03	U		< 0.37	U		< 0.37	U		< 0.0074	U		< 0.0074	U		< 0.03	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.35	U		< 0.0056	U		< 0.028	U		< 0.35	U		< 0.35	U		< 0.0070	U		< 0.0070	U		< 0.028	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.33	U		< 0.0056	U		< 0.028	U		< 0.33	U		< 0.33	U		< 0.0066	U		< 0.0066	U		< 0.028	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.33	U		< 0.0053	U		< 0.027	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.0067	U		< 0.027	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.36	U		< 0.0098	U		< 0.049	U		< 0.36	U		< 0.36	U		< 0.0072	U		< 0.0072	U		< 0.049	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.33	U		< 0.0056	U		< 0.028	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.0067	U		< 0.028	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.33	U		< 0.0049	U		< 0.024	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.0067	U		< 0.024	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.34	U		< 0.0053	U		< 0.026	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.026	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.34	U		< 0.0062	U		< 0.031	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U		< 0.031	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.35	U		< 0.0055	U		< 0.027	U		< 0.35	U		< 0.35	U		< 0.0071	U		< 0.0071	U		< 0.027	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.33	U		< 0.0051	U		< 0.025	U		< 0.33	U		< 0.33	U		< 0.0065	U		< 0.0065	U		< 0.025	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.34	U		< 0.0052	U		< 0.026	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.026	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.34	U		< 0.0054	U		< 0.027	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.027	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.34	U		< 0.0051	U		< 0.025	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.025	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.34	U		< 0.0056	U		< 0.028	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U		< 0.028	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.34	U		< 0.0056	U		< 0.028	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.028	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.35	U		< 0.0074	U	UJ	< 0.037	U	UJ	< 0.35	U		< 0.35	U		< 0.0070	U		< 0.0070	U		< 0.037	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.34	U		< 0.0085	U	UJ	< 0.043	U	UJ	< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U		< 0.043	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.34	U		< 0.0051	U	UJ	< 0.026	U	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U		< 0.026	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				4-Chlorophenyl phenyl ether			4-Chlorotoluene			4-Methyl-2-Pentanone (MIBK)			4-Nitroaniline			4-Nitrophenol			Acenaphthene			Acenaphthylene			Acetone		
Screening Criteria (mg/kg)																		570						25		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			< 0.0577	U		< 0.721	U		--			--			--			--			< 0.721	U	UJ
SB-103	SB103-43-051723	43	5/17/2023	--			< 0.0487	U		< 0.609	U		--			--			--			--			< 0.609	U	UJ
SB-103	SB103-58-051723	58	5/17/2023	--			< 0.0020	U		< 0.0254	U		--			--			--			--			0.0547		J
SB-103	SB103-68-051323	68	5/17/2023	--			< 0.534	U		< 6.68	U		--			--			--			--			< 6.68	U	UJ
SB-103	SB103-77-052423	77	5/24/2023	--			< 0.0019	U		< 0.0235	U		--			--			--			--			0.213		J
SB-104	SB104-42-062023	42	6/20/2023	--			< 0.268	U		< 3.35	U		--			--			--			--			< 3.35	U	UJ
SB-104	SB104-57-062023	57	6/20/2023	--			< 2.31	U		< 28.9	U		--			--			--			--			< 28.9	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			< 2.12	U		< 26.6	U		--			--			--			--			< 26.6	U	
SB-104	SB104-65-062023	65	6/20/2023	--			< 0.0601	U		< 0.751	U		--			--			--			--			< 0.751	U	UJ
SB-104	SB104-78-062023	78	6/20/2023	--			< 0.0608	U	UJ	< 0.76	U	UJ	--			--			--			--			< 0.76	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	--			< 0.46	U		< 5.75	U		--			--			--			--			< 5.75	U	
SB-105	SB105-55-062023	55	6/20/2023	--			< 0.0607	U		< 0.759	U		--			--			--			--			< 0.759	U	
SB-105	SB105-67-062023	67	6/20/2023	--			< 0.0518	U	UJ	< 0.648	U	UJ	--			--			--			--			< 0.648	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	--			< 0.0019	U		< 0.0239	U		--			--			--			--			< 0.0239	U	UJ
SB-106	SB106-39-061923	39	6/19/2023	--			< 0.0581	U		< 0.726	U		--			--			--			--			< 0.726	U	
SB-106	SB106-45-061923	45	6/19/2023	--			< 0.0616	U	UJ	< 0.77	U	UJ	--			--			--			--			< 0.77	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			< 0.0620	U		< 0.775	U		--			--			--			--			< 0.775	U	UJ
SB-106	SB106-58-061923	58	6/19/2023	--			< 0.692	U		< 8.65	U		--			--			--			--			< 8.65	U	
SB-106	SB106-68-061923	68	6/19/2023	--			< 0.0019	U		< 0.0233	U		--			--			--			--			0.0822		J
SB-106	SB106-77-061923	77	6/19/2023	--			< 0.0523	U		< 0.653	U		--			--			--			--			< 0.653	U	UJ
SB-107	SB107-15-061723	15	6/17/2023	--			< 0.446	U		< 5.58	U		--			--			--			--			< 5.58	U	
SB-107	SB107-39-061723	39	6/17/2023	--			< 0.379	U		< 4.74	U		--			--			--			--			< 4.74	U	
SB-107	SB107-58-061723	58	6/17/2023	--			< 0.125	U		< 1.57	U		--			--			--			--			< 1.57	U	
SB-107	SB107-67-061723	67	6/17/2023	--			< 0.452	U	UJ	< 5.65	U	UJ	--			--			--			--			< 5.65	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	--			< 0.0481	U		< 0.601	U		--			--			--			--			< 0.601	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			< 0.0024	U		< 0.0294	U		--			--			--			--			0.111		J
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			< 0.498	U		< 6.22	U		--			--			--			--			< 6.22	U	UJ
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			< 2.32	U		< 29	U		--			--			--			--			< 29	U	UJ
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			< 0.0029	U		< 0.0358	U		--			--			--			--			0.0944		J
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			< 0.893	U		< 11.2	U		--			--			--			--			22.7		J
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			< 0.42	U		< 5.25	U		--			--			--			--			< 5.25	U	UJ
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			< 0.535	U		< 6.69	U		--			--			--			--			< 6.69	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			< 0.0597	U		< 0.746	U		--			--			--			--			< 0.746	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			< 0.0021	U		< 0.0265	U		--			--			--			--			0.167		
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			< 0.122	U		< 1.52	U		--			--			--			--			< 1.52	U	UJ
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			< 4.54	U		< 56.7	U		--			--			--			--			34	J	J
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			< 1.12	U		< 14	U		--			--			--			--			< 14	U	UJ
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			< 0.482	U		< 6.03	U		--			--			--			--			< 6.03	U	UJ
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			< 0.449	U		< 5.61	U		--			--			--			--			< 5.61	U	UJ
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			< 3.59	U		< 44.9	U		--			--			--			--			< 44.9	U	UJ
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			< 0.139	U		< 1.74	U		--			--			--			--			1	BJ	J
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			< 0.0920	U		< 1.15	U		--			--			--			--			< 1.15	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			< 20.3	U		< 254	U		--			--			--			--			160	BJ	J
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			< 0.0658	U		< 0.823	U		--			--			--			--			< 0.823	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			< 0.0570	U		< 0.712	U		--			--			--			--			< 0.712	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			< 0.216	U		< 2.69	U		--			--			--			--			< 2.69	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			< 0.0539	U		< 0.673	U		--			--			--			--			< 0.673	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			< 1.05	U		< 13.1	U		--			--			--			--			97.1		
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			< 0.0510	U		< 0.638	U		--			--			--			--			< 0.638	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			< 0.0516	U		< 0.645	U		--			--			--			--			< 0.645	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			< 1.89	U		< 23.6	U		--			--			--			--			29.4		J
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			< 0.0575	U		< 0.718	U		--			--			--			--			< 0.718	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			< 0.126	U		< 1.58	U		--			--			--			--			< 1.58	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			< 0.0501	U		< 0.626	U		--			--			--			--			< 0.626	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			< 0.0579	U		< 0.724	U		--			--			--			--			< 0.724	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			< 0.0460	U		< 0.575	U		--			--			--			--			< 0.575	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			< 0.447	U		< 5.59	U		--			--			--			--			< 5.59	U	

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Table 3
Pre-SEE Soil Analytical Results

				4-Chlorophenyl phenyl ether			4-Chlorotoluene			4-Methyl-2-Pentanone (MIBK)			4-Nitroaniline			4-Nitrophenol			Acenaphthene			Acenaphthylene			Acetone		
Screening Criteria (mg/kg)																		570						25		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			< 0.0022	U		< 0.0278	U		--			--			--			--			0.0599		J
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			< 0.442	U		< 5.52	U		--			--			--			--			< 5.52	BU	UJ
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			< 0.444	U		< 5.54	U		--			--			--			--			< 5.54	BU	UJ
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			< 0.0024	U		< 0.0301	U		--			--			--			--			0.0931		J
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			< 0.377	U		< 4.71	U		--			--			--			--			1.4	BJ	
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			< 21.7	U		< 271	U		--			--			--			--			91	BJ	
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			< 12.3	U		< 153	U		--			--			--			--			49	BJ	
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			< 1.41	U		< 17.6	U		--			--			--			--			< 17.6	U	UJ
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			< 0.218	U		< 2.72	U		--			--			--			--			< 2.72	U	UJ
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			< 0.0768	U	UJ	< 0.96	U	UJ	--			--			--			--			< 0.96	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			< 0.0519	U		< 0.649	U		--			--			--			--			< 0.649	U	UJ
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			< 0.423	U		< 5.28	U		--			--			--			--			1.7	J	J
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			< 0.481	U		< 6.02	U		--			--			--			--			< 6.02	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			< 0.88	U		< 11	U		--			--			--			--			< 11	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			< 2.29	U		< 28.6	U		--			--			--			--			< 28.6	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			< 2.33	U		< 29.1	U		--			--			--			--			< 29.1	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			< 0.0581	U		< 0.727	U		--			--			--			--			< 0.727	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			< 0.474	U		< 5.92	U		--			--			--			--			< 5.92	U	UJ
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			< 0.443	U		< 5.53	U		--			--			--			--			< 5.53	U	UJ
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			< 0.453	U		< 5.67	U		--			--			--			--			< 5.67	U	UJ
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			< 0.421	U		< 5.27	U		--			--			--			--			< 5.27	U	UJ
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			< 0.449	U		< 5.61	U		--			--			--			--			< 5.61	U	UJ
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			< 5.13	U		< 64.1	U		--			--			--			--			< 64.1	U	UJ
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			< 0.0698	U		< 0.872	U		--			--			--			--			2.95		J
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			< 0.29	U		< 3.62	U		--			--			--			--			5.75		J
T-AB2	TAB2-48-061523	48	6/15/2023	--			< 0.0633	U		< 0.791	U		--			--			--			--			1.93		J
T-AB2	TAB2-59-061523	59	6/15/2023	--			< 0.836	U		< 10.5	U		--			--			--			--			< 10.5	U	UJ
T-BG2	TBG2-48-071123	48	7/11/2023	--			< 0.0023	U		< 0.0283	U		--			--			--			--			< 0.0283	U	UJ
T-BG2	TBG2-59-071123	59	7/11/2023	--			< 0.0020	U		< 0.0253	U		--			--			--			--			< 0.0253	U	UJ
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			< 0.0022	U		< 0.0269	U		--			--			--			--			< 0.0269	U	UJ
X-AD2	XAD2-49-052323	49	5/23/2023	--			< 0.512	U		< 6.41	U		--			--			--			--			< 6.41	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			< 0.469	U		< 5.87	U		--			--			--			--			< 5.87	U	
X-AD2	XAD2-58-052323	58	5/23/2023	--			< 0.444	U		< 5.54	U		--			--			--			--			< 5.54	U	
X-AE4	XAE4-40-030223	40	3/2/2023	--			< 12.4	U		< 155	U		--			--			--			--			< 155	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			< 12	U		< 150	U		--			--			--			--			48	J	
X-AE4	XAE4-48-030223	48	3/2/2023	--			< 0.0020	U		< 0.0254	U		--			--			--			--			0.0766		
X-AE4	XAE4-52-030223	52	3/2/2023	--			< 0.44	U		< 5.5	U		--			--			--			--			< 5.5	U	
X-AF6	XAF6-40-022723	40	2/27/2023	--			< 0.627	U		< 7.84	U		--			--			--			--			4.5	J	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			< 2.31	U		< 28.9	U		--			--			--			--			< 28.9	U	
X-AF6	XAF6-47-022723	47	2/27/2023	--			< 0.0024	U		< 0.0294	U		--			--			--			--			0.025	J	
X-AF6	XAF6-58-022723	58	2/27/2023	--			< 0.489	U		< 6.11	U		--			--			--			--			3.2	J	
X-AG5	XAG5-40-031823	40	3/18/2023	--			< 10.3	U		< 129	U		--			--			--			--			< 129	BU	
X-AG5	XAG5-49-031823	49	3/18/2023	--			< 0.551	U		< 6.88	U	UJ	--			--			--			--			1.8	J	
X-AG5	XAG5-56-031823	56	3/18/2023	--			< 0.0963	U		< 1.2	U		--			--			--			--			< 1.2	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			< 23.8	U		< 298	U		--			--			--			--			< 298	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			< 0.477	U		< 5.97	U		--			--			--			--			< 5.97	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			< 0.997	U		< 12.5	U		--			--			--			--			< 12.5	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			< 0.0980	U		< 1.23	U		--			--			--			--			0.38	J	J
X-BB2	XBB2-4-030123	4	3/1/2023	--			< 0.0022	U		< 0.0272	U		--			--			--			--			0.112		
X-BB2	XBB2-9-030123	9	3/1/2023	--			< 0.0023	U		< 0.0293	U		--			--			--			--			0.128		
X-BB2	XBB2-38-051823	38	5/18/2023	--			< 4.57	U		< 57.2	U		--			--			--			--			< 57.2	U	UJ
X-BB2	XBB2-47-051823	47	5/18/2023	--			< 9.71	U		< 121	U		--			--			--			--			< 121	U	UJ
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			< 24.7	U		< 309	U		--			--			--			--			< 309	U	UJ
X-BC3	XBC3-4-022423	4	2/24/2023	--			< 0.0018	U		< 0.0230	U		--			--			--			--			< 0.0230	U	
X-BC3	XBC3-9-022423	9	2/24/2023	--			< 0.0021	U		< 0.0264	U		--			--			--			--			0.0365		J
X-BC3	XBC3-38-062123	38	6/21/2023	--			< 0.0689	U		< 0.862	U		--			--			--			--			< 0.862	U	
X-BC3	XBC3-47-062123	47	6/21/2023	--			< 4.56	U		< 57.1	U		--			--			--			--			< 57.1	U	UJ
X-BC3	XBC3-58-062123	58	6/21/2023	--			< 1.07	U		< 13.3	U		--			--			--			--			< 13.3	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				Acrolein			Acrylonitrile			Aniline			Anthracene			Azobenzene			Benzenethiol			Benzo(a)anthracene			Benzo(a)pyrene		
Screening Criteria (mg/kg)													12000									0.9			0.09		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.053	U		< 0.021	U		< 0.33	U	UJ	< 0.0066	JB	U	< 0.33	U		< 0.33	U		< 0.0066	JB	U	< 0.0066	JB	U
SB-101	SB101-48-120722	48	12/7/2022	< 130	U		< 53	U		< 0.39	U	UJ	< 0.0077	U		< 0.39	U		< 0.39	U		< 0.0077	JB	U	< 0.0077	JB	U
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 36	U*+		< 14	U		< 0.4	U	UJ	< 0.0080	U		< 0.4	U		< 0.4	U		< 0.0080	JB	U	< 0.0080	JB	U
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.046	U		< 0.019	U		< 0.39	U	UJ	< 0.0078	U		< 0.39	U		< 0.39	U		< 0.0078	U		< 0.0078	JB	U
SB-102	SB102-10-120522	10	12/5/2022	< 0.054	U		< 0.022	U		< 0.35	U		< 0.0069	JB	U	< 0.35	U		< 0.35	U		< 0.0069	JB	U	< 0.0069	JB	U
SB-102	SB102-42-120622	42	12/6/2022	< 3.8	U	UJ	< 1.5	U	UJ	< 0.38	U		0.013	B		< 0.38	U		< 0.38	U		0.0062	J		0.0041	J	
SB-102	SB102-52-120622	52	12/6/2022	< 5.5	U	UJ	< 2.2	U	UJ	< 0.41	U		< 0.0080	U		< 0.41	U		< 0.41	U		0.0022	J		< 0.0080	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 3.7	U	UJ	< 1.5	U	UJ	< 0.41	U		< 0.0081	U		< 0.41	U		< 0.41	U		0.0019	J		< 0.0081	U	
SB-102	SB102-55-120622	55	12/6/2022	< 120	U	UJ	< 46	U	UJ	< 0.38	U		< 0.0076	U		< 0.38	U		< 0.38	U		< 0.0076	JB	U	< 0.0076	JB	U
SB-102	SB102-72-120622	72	12/6/2022	< 0.043	U	UJ	< 0.017	U	UJ	< 0.34	U		< 0.0069	U		< 0.34	U		< 0.34	U		< 0.0069	JB	U	< 0.0069	JB	U
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.054	U		< 0.021	U		< 0.33	U		< 0.0066	JB	U	< 0.33	U		< 0.33	U		0.048	B		0.062	B	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.062	U	UJ	< 0.025	U	UJ	< 0.37	U		< 0.0074	U		< 0.37	UF1	UJ	< 0.37	U*1		< 0.0074	JB	U	< 0.0074	JB	U
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.051	U	UJ	< 0.02	U	UJ	< 0.34	U		0.0011	J		< 0.34	U	UJ	< 0.34	U*1		< 0.0068	JB	U	< 0.0068	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.057	U		< 0.023	U		< 0.34	U		< 0.0067	JB	U	< 0.34	U		< 0.34	U		< 0.0080	B	U	< 0.0088	B	U
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.069	U*+	UJ	< 0.027	U	UJ	< 0.34	U	UJ	< 0.0069	U		< 0.34	U		< 0.34	U		< 0.0069	JB	U	< 0.0069	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.051	U*+	UJ	< 0.02	U	UJ	< 0.34	U	UJ	< 0.0067	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.06	U		< 0.024	U		< 0.41	U		< 0.0083	U		< 0.41	U	UJ	< 0.41	U*1		< 0.0083	JB	U	< 0.0083	JB	U
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.052	U		< 0.021	U		< 0.32	U		< 0.0065	U		< 0.32	U	UJ	< 0.32	U*1		< 0.0065	JB	U	< 0.0065	JB	U
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.055	U		< 0.022	U		< 0.36	U		0.0011	J		< 0.36	U	UJ	< 0.36	U*1		< 0.0072	U		< 0.0072	JB	U
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.053	U		< 0.021	U		< 0.44	U		< 0.0088	U		< 0.44	U	UJ	< 0.44	U*1		< 0.0088	U		< 0.0088	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.053	U		< 0.021	U		< 0.33	U		< 0.0065	U		< 0.33	U	UJ	< 0.33	U*1		< 0.0065	JB	U	< 0.0065	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.058	U		< 0.023	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.34	U*1		< 0.0067	JB	U	< 0.0067	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.054	U		< 0.021	U		< 0.34	U		0.0015	J		< 0.34	U		< 0.34	U		< 0.0067	JB	U	< 0.0067	JB	U
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.053	U		< 0.021	U		< 0.35	U		0.0019	J		< 0.35	U		< 0.35	U		< 0.0069	JB	U	< 0.0069	JB	U
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.1	U		< 0.041	U		< 0.33	U		< 0.0066	U		< 0.33	U		< 0.33	U		< 0.0066	U		< 0.0066	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.053	U		< 0.021	U		< 0.34	U		< 0.0068	U		< 0.34	U	UJ	< 0.34	U*1		< 0.0068	JB	U	< 0.0068	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.054	U		< 0.022	U		< 0.34	U		0.0011	J		< 0.34	U	UJ	< 0.34	U*1		< 0.0069	JB	U	< 0.0069	JB	U
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.081	U		< 0.032	U		< 0.33	U		< 0.0067	U		< 0.33	U	UJ	< 0.33	U*1		< 0.0067	JB	U	< 0.0067	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.072	U		< 0.029	U		< 0.36	U		< 0.0071	U		< 0.36	U	UJ	< 0.36	U*1		< 0.0071	JB	U	< 0.0071	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.068	U		< 0.027	U		< 0.36	U		< 0.0071	U		< 0.36	U	UJ	< 0.36	U*1		< 0.0071	JB	U	< 0.0071	JB	U
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.053	U		< 0.021	U		< 0.41	U		0.0028	J		< 0.41	U	UJ	< 0.41	U*1		< 0.0083	JB	U	< 0.0083	JB	U
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.036	U		< 0.014	U		< 0.34	U		0.0011	J		< 0.34	U	UJ	< 0.34	U*1		< 0.0068	JB	U	< 0.0068	JB	U
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.058	U		< 0.023	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.34	U*-*1	UJ	0.0023	J		< 0.0067	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.056	U		< 0.022	U		< 0.34	U	UJ	< 0.0067	JB	U	< 0.34	U		< 0.34	U		< 0.0067	JB	U	0.0044	J	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.053	U		< 0.021	U		< 0.34	U	UJ	< 0.0067	JB	U	< 0.34	U		< 0.34	U		< 0.0067	JB	U	< 0.0067	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.062	U		< 0.025	U		< 0.35	U		< 0.0070	U		< 0.35	U		< 0.35	U*-*1	UJ	< 0.0070	U		< 0.0070	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.053	U		< 0.021	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.34	U*-*1	UJ	< 0.0069	U		< 0.0069	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.061	U		< 0.024	U		< 0.35	U		< 0.0069	U		< 0.35	U		< 0.35	U*-*1	UJ	< 0.0069	U		< 0.0069	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.059	U		< 0.024	U		< 0.37	U		< 0.0074	U		< 0.37	U		< 0.37	U*-*1	UJ	< 0.0074	U		< 0.0074	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.056	U		< 0.022	U		< 0.35	U		< 0.0070	U		< 0.35	U		< 0.35	U		< 0.0070	JB	U	< 0.0070	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.056	U		< 0.023	U		< 0.33	U		< 0.0066	U		< 0.33	U		< 0.33	U		< 0.0066	U		< 0.0066	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.053	U		< 0.021	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.0067	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.098	U		< 0.039	U		< 0.36	U		< 0.0072	U		< 0.36	U		< 0.36	U		< 0.0072	U		< 0.0072	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.056	U		< 0.022	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.0067	JB	U
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.049	U		< 0.02	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.33	U		< 0.0067	JB	U	< 0.0067	JB	U
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.053	U		< 0.021	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.062	U		< 0.025	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.055	U		< 0.022	U		< 0.35	U		< 0.0071	U		< 0.35	U		< 0.35	U		< 0.0071	U		< 0.0071	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.051	U		< 0.02	U		< 0.33	U		< 0.0065	U		< 0.33	U		< 0.33	U		< 0.0065	JB	U	< 0.0065	JB	U
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.052	U		< 0.021	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.34	U		< 0.0068	JB	U	< 0.0068	JB	U
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.054	U		< 0.021	U		< 0.34	U	UJ	< 0.0067	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.0067	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.051	U		< 0.02	U		< 0.34	U	UJ	< 0.0068	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.056	U		< 0.022	U		< 0.34	U	UJ	< 0.0069	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.0069	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.056	U		< 0.022	U		< 0.34	U	UJ	< 0.0068	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.0068	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.074	U	UJ	< 0.03	U	UJ	< 0.35	U		< 0.0070	U		< 0.35	U		< 0.35	U*-*1	UJ	0.0032	J		< 0.0070	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.085	U	UJ	< 0.034	U	UJ	< 0.34	U		< 0.0067	U		< 0.34	U		< 0.34	U*-*1	UJ	< 0.0067	U		< 0.0067	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.051	U	UJ	< 0.02	U	UJ	< 0.34	U		< 0.0068	U		< 0.34	U		< 0.34	U*-*1	UJ	< 0.0068	U		< 0.0068	U	

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Table 3
Pre-SEE Soil Analytical Results

				Acrolein			Acrylonitrile			Aniline			Anthracene			Azobenzene			Benzenethiol			Benzo(a)anthracene			Benzo(a)pyrene		
Screening Criteria (mg/kg)													12000									0.9			0.09		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 1.44	U		< 0.144	U		--			--			--			--			--			--		
SB-103	SB103-43-051723	43	5/17/2023	< 1.22	U		< 0.122	U		--			--			--			--			--			--		
SB-103	SB103-58-051723	58	5/17/2023	< 0.0508	U		< 0.0051	U		--			--			--			--			--			--		
SB-103	SB103-68-051323	68	5/17/2023	< 13.4	U		< 1.34	U		--			--			--			--			--			--		
SB-103	SB103-77-052423	77	5/24/2023	< 0.0469	U		< 0.0047	U		--			--			--			--			--			--		
SB-104	SB104-42-062023	42	6/20/2023	< 6.71	U		< 0.671	U		--			--			--			--			--			--		
SB-104	SB104-57-062023	57	6/20/2023	< 57.8	U		< 5.78	U		--			--			--			--			--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 53.1	U		< 5.31	U		--			--			--			--			--			--		
SB-104	SB104-65-062023	65	6/20/2023	< 1.5	U		< 0.15	U		--			--			--			--			--			--		
SB-104	SB104-78-062023	78	6/20/2023	< 1.52	U	UJ	< 0.152	U	UJ	--			--			--			--			--			--		
SB-105	SB105-40-062023	40	6/20/2023	< 11.5	U		< 1.15	U		--			--			--			--			--			--		
SB-105	SB105-55-062023	55	6/20/2023	< 1.52	U		**0.451**			--			--			--			--			--			--		
SB-105	SB105-67-062023	67	6/20/2023	< 1.3	U	UJ	< 0.13	U	UJ	--			--			--			--			--			--		
SB-105	SB105-73-062023	73	6/20/2023	< 0.0477	U		< 0.0048	U		--			--			--			--			--			--		
SB-106	SB106-39-061923	39	6/19/2023	< 1.45	U		< 0.145	U		--			--			--			--			--			--		
SB-106	SB106-45-061923	45	6/19/2023	< 1.54	U	UJ	< 0.154	U	UJ	--			--			--			--			--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 1.55	U		< 0.155	U		--			--			--			--			--			--		
SB-106	SB106-58-061923	58	6/19/2023	< 17.3	U		< 1.73	U		--			--			--			--			--			--		
SB-106	SB106-68-061923	68	6/19/2023	< 0.0466	U		< 0.0047	U		--			--			--			--			--			--		
SB-106	SB106-77-061923	77	6/19/2023	< 1.31	U		< 0.131	U		--			--			--			--			--			--		
SB-107	SB107-15-061723	15	6/17/2023	< 11.2	U		< 1.12	U		--			--			--			--			--			--		
SB-107	SB107-39-061723	39	6/17/2023	< 9.48	U		< 0.948	U		--			--			--			--			--			--		
SB-107	SB107-58-061723	58	6/17/2023	< 3.13	U		< 0.313	U		--			--			--			--			--			--		
SB-107	SB107-67-061723	67	6/17/2023	< 11.3	U	UJ	< 1.13	U	UJ	--			--			--			--			--			--		
SB-107	SB107-78-061723	78	6/17/2023	< 1.2	U		< 0.12	U		--			--			--			--			--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0588	U		< 0.0059	U		--			--			--			--			--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 12.4	U		< 1.24	U		--			--			--			--			--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 58.1	U		< 5.81	U		--			--			--			--			--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0715	U		< 0.0072	U		--			--			--			--			--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 22.3	U	UJ	< 2.23	U		--			--			--			--			--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 10.5	U	UJ	< 1.05	U		--			--			--			--			--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 13.4	U		< 1.34	U		--			--			--			--			--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 1.49	U		**0.181**			--			--			--			--			--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	< 0.0530	U		< 0.0053	U		--			--			--			--			--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 3.04	U	UJ	< 0.304	U		--			--			--			--			--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 113	U		< 11.3	U		--			--			--			--			--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 28.1	U	UJ	< 2.81	U		--			--			--			--			--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 12.1	U		< 1.21	U		--			--			--			--			--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 11.2	U		< 1.12	U		--			--			--			--			--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 89.7	U		< 8.97	U		--			--			--			--			--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 3.47	U		< 0.347	U		--			--			--			--			--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 2.3	U		< 0.23	U		--			--			--			--			--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 507	U		< 50.7	U		--			--			--			--			--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 1.65	U		< 0.165	U		--			--			--			--			--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 1.42	U		< 0.142	U		--			--			--			--			--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 5.39	U	UJ	< 0.539	U		--			--			--			--			--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 1.35	U	UJ	< 0.135	U		--			--			--			--			--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 26.2	U	UJ	< 2.62	U		--			--			--			--			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 1.28	U		< 0.128	U		--			--			--			--			--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 1.29	U		< 0.129	U		--			--			--			--			--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 47.1	U		< 4.71	U		--			--			--			--			--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 1.44	U		**0.742**			--			--			--			--			--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 3.16	U		< 0.316	U		--			--			--			--			--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 1.25	U		**1.42**			--			--			--			--			--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 1.45	U	UJ	< 0.145	U		--			--			--			--			--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 1.15	U	UJ	< 0.115	U		--			--			--			--			--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 11.2	U	UJ	< 1.12	U		--			--			--			--			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				Acrolein			Acrylonitrile			Aniline			Anthracene			Azobenzene			Benzenethiol			Benzo(a)anthracene			Benzo(a)pyrene		
Screening Criteria (mg/kg)													12000									0.9			0.09		
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0555	U		< 0.0056	U		--			--			--			--			--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 11	U		< 1.1	U		--			--			--			--			--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 11.1	U		< 1.11	U		--			--			--			--			--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0603	U		< 0.0060	U		--			--			--			--			--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 9.42	U		< 0.942	U		--			--			--			--			--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 542	U		< 54.2	U		--			--			--			--			--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 307	U		< 30.7	U		--			--			--			--			--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 35.2	U		< 3.52	U		--			--			--			--			--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 5.45	U		< 0.545	U		--			--			--			--			--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 1.92	U	UJ	< 0.192	U	UJ	--			--			--			--			--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 1.3	U		< 0.13	U		--			--			--			--			--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 10.6	U		< 1.06	U		--			--			--			--			--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 12	U		< 1.2	U		--			--			--			--			--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 22	U		< 2.2	U		--			--			--			--			--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 57.2	U		< 5.72	U		--			--			--			--			--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 58.3	U		< 5.83	U		--			--			--			--			--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 1.45	U		< 0.145	U		--			--			--			--			--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 11.8	U		< 1.18	U		--			--			--			--			--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 11.1	U		< 1.11	U		--			--			--			--			--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 11.3	U		< 1.13	U		--			--			--			--			--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 10.5	U		< 1.05	U		--			--			--			--			--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 11.2	U		< 1.12	U		--			--			--			--			--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 128	U		< 12.8	U		--			--			--			--			--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 1.74	U		< 0.174	U		--			--			--			--			--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 7.25	U		< 0.725	U		--			--			--			--			--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	< 1.58	U		< 0.158	U		--			--			--			--			--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	< 20.9	U		< 2.09	U		--			--			--			--			--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0565	U		< 0.0057	U		--			--			--			--			--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0507	U		< 0.0051	U		--			--			--			--			--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0538	U		< 0.0054	U		--			--			--			--			--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	< 12.8	U		< 1.28	U		--			--			--			--			--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 11.7	U		< 1.17	U		--			--			--			--			--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	< 11.1	U		< 1.11	U		--			--			--			--			--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	< 309	U		< 30.9	U		--			--			--			--			--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 300	U		< 30	U		--			--			--			--			--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0507	U		< 0.0051	U		--			--			--			--			--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	< 11	U		< 1.1	U		--			--			--			--			--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	< 15.7	U		< 1.57	U		--			--			--			--			--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 57.7	U		< 5.77	U		--			--			--			--			--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0588	U		< 0.0059	U		--			--			--			--			--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	< 12.2	U		< 1.22	U		--			--			--			--			--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	< 259	U		< 25.9	U		--			--			--			--			--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	< 13.8	U	UJ	< 1.38	U		--			--			--			--			--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	< 2.41	U		< 0.241	U		--			--			--			--			--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 595	U		< 59.5	U		--			--			--			--			--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 11.9	U		< 1.19	U		--			--			--			--			--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 24.9	U		< 2.49	U		--			--			--			--			--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 2.45	U	UJ	< 0.245	U		--			--			--			--			--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0545	U		< 0.0054	U		--			--			--			--			--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0585	U		< 0.0059	U		--			--			--			--			--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	< 114	U		< 11.4	U		--			--			--			--			--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	< 243	U		< 24.3	U		--			--			--			--			--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 618	U		< 61.8	U		--			--			--			--			--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0460	U		< 0.0046	U		--			--			--			--			--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0528	U		< 0.0053	U		--			--			--			--			--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	< 1.72	U	UJ	< 0.172	U		--			--			--			--			--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	< 114	U		< 11.4	U		--			--			--			--			--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	< 26.6	U		< 2.66	U		--			--			--			--			--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Benzo(b)fluoranthene			Benzo(g-h-i)perylene			Benzo(k)fluoranthene			Benzoic acid			Benzyl alcohol			Bis(2-chloroethoxy)methane			Bis(2-chloroethyl)ether			bis(2-Chloroisopropyl)ether		
Screening Criteria (mg/kg)				0.9						9			400									0.0004					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.0066	JB	U	< 0.0066	U		< 0.0066	JB	U	< 1	UF1	R	< 0.33	U		< 0.33	UF1	UJ	< 0.33	U		< 0.33	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.0077	JB	U	< 0.0077	U		< 0.0077	JB	U	< 1.2	U		< 0.39	U		< 0.39	U	UJ	< 0.39	U		< 0.39	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.0080	JB	U	< 0.0080	U		< 0.0080	JB	U	< 1.2	U		< 0.4	U		< 0.4	U	UJ	< 0.4	U		< 0.4	U	
SB-101A	SB101A-67-121922	67	12/19/2022	0.0037	J		< 0.0078	U		< 0.0078	U		< 1.2	UF2F1	UJ	< 0.39	U		< 0.39	U	UJ	< 0.39	U	UJ	< 0.39	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0069	JB	U	< 0.0069	U		< 0.0069	U		< 1	U		< 0.35	U		< 0.35	U	UJ	< 0.35	U		< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	0.0052	J		< 0.0076	U		0.0026	J		0.41	J		< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U	
SB-102	SB102-52-120622	52	12/6/2022	< 0.0080	U		< 0.0080	U		< 0.0080	U		< 1.2	U		< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.0081	U		< 0.0081	U		< 0.0081	U		< 1.2	U		< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U	
SB-102	SB102-55-120622	55	12/6/2022	< 0.0076	JB	U	< 0.0076	U		< 0.0076	JB	U	< 1.1	U		< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U	
SB-102	SB102-72-120622	72	12/6/2022	< 0.0069	JB	U	< 0.0069	U		< 0.0069	JB	U	< 1	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-01-10	SVP01-10-120522	10	12/5/2022	0.069	B		0.046			0.029	B		< 0.99	U		< 0.33	U		< 0.33	U	UJ	< 0.33	U		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	0.0045	J		< 0.0074	U		0.0045	JF2	J	< 1.1	UF1F2	UJ	< 0.37	UF1	UJ	< 0.37	UF1	UJ	< 0.37	U	UJ	< 0.37	U	
SVP-01-30	SVP01-30-120922	30	12/9/2022	0.0032	J		< 0.0068	U		0.0030	J		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.011	B	U	< 0.0067	U		< 0.0070	B	U	< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	JB	U	< 0.0069	U		< 0.0069	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0067	JB	U	< 0.0067	U		< 0.0067	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	0.0037	J		< 0.0083	U		0.0034	J		< 1.2	U		< 0.41	U		< 0.41	U	UJ	< 0.41	U	UJ	< 0.41	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	0.0019	J		< 0.0065	U		0.0018	J		< 0.97	U		< 0.32	U		< 0.32	U	UJ	< 0.32	U	UJ	< 0.32	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0072	U		< 0.0072	U		< 0.0072	U		< 1.1	U		< 0.36	U		< 0.36	U	UJ	< 0.36	U	UJ	< 0.36	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	0.0022	J		< 0.0088	U		0.0019	J		< 1.3	U		< 0.44	U		< 0.44	U	UJ	< 0.44	U	UJ	< 0.44	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0065	U		< 0.0065	U		< 0.0065	U		< 0.98	U		< 0.33	U		< 0.33	U	UJ	< 0.33	U	UJ	< 0.33	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0067	U		< 0.0067	U		< 0.0067	U		< 1	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0067	JB	U	< 0.0067	U		< 0.0067	JB	U	< 1	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0069	JB	U	< 0.0069	U		< 0.0069	JB	U	< 1	U		< 0.35	U		< 0.35	U	UJ	< 0.35	U	UJ	< 0.35	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.0066	U		< 0.0066	U		< 0.0066	U		< 0.99	U		< 0.33	U		< 0.33	U	UJ	< 0.33	U	UJ	< 0.33	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	0.0023	J		< 0.0069	U		0.0021	J		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0067	U		< 0.0067	U		< 0.0067	U		< 1	U		< 0.33	U		< 0.33	U	UJ	< 0.33	U	UJ	< 0.33	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0071	U		< 0.0071	U		< 0.0071	U		< 1.1	U		< 0.36	U		< 0.36	U	UJ	< 0.36	U	UJ	< 0.36	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	0.0032	J		< 0.0071	U		< 0.0071	U		< 1.1	U		< 0.36	U	UJ	< 0.36	U	UJ	< 0.36	U	UJ	< 0.36	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	0.0077	J		< 0.0083	U		0.0060	J		< 1.2	U		< 0.41	U	UJ	< 0.41	U	UJ	< 0.41	U	UJ	< 0.41	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	0.0026	J		< 0.0068	U		0.0024	J		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	0.0037	J		< 0.0067	U		< 0.0067	U		< 1	UF2F1	UJ	< 0.34	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	0.0055	J		< 0.0067	U		0.0053	J		< 1	UF1	UJ	< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	UF1	UJ
SVP-08-30	SVP08-30-010923	30	1/9/2023	0.0064	J		< 0.0067	U		0.0059	J		< 1	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	0.0024	J		< 0.0070	U		0.0026	J		< 1.1	U		< 0.35	U		< 0.35	U		< 0.35	U	UJ	< 0.35	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0069	U		< 0.0069	U		< 0.0069	U		< 1	U		< 0.34	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0069	U		< 0.0069	U		< 0.0069	U		< 1	U		< 0.35	U		< 0.35	U		< 0.35	U	UJ	< 0.35	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0074	U		< 0.0074	U		< 0.0074	U		< 1.1	U		< 0.37	U		< 0.37	U		< 0.37	U	UJ	< 0.37	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0070	JB	U	< 0.0070	U		< 0.0070	JB	U	< 1.1	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0066	U		< 0.0066	U		< 0.0066	U		0.55	J		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0067	U		< 0.0067	U		< 0.0067	U		< 1	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0072	U		< 0.0072	U		< 0.0072	U		< 1.1	U		< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0067	U		< 0.0067	U		< 0.0067	U		< 1	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0067	JB	U	< 0.0067	U		< 0.0073	B	U	< 1	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 1	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0069	U		< 0.0069	U		< 0.0069	U		< 1	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0071	U		< 0.0071	U		< 0.0071	U		< 1.1	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0065	JB	U	< 0.0065	U		< 0.0065	JB	U	0.56	JF1F2	J	< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0068	JB	U	< 0.0068	U		< 0.0068	JB	U	0.57	J		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0067	U		< 0.0067	U		< 0.0067	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0069	U		< 0.0069	U		< 0.0069	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 1	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	UJ	< 0.34	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0070	U		< 0.0070	U		< 0.0070	U		< 1	U		< 0.35	U		< 0.35	U		< 0.35	U	UJ	< 0.35	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0067	U		< 0.0067	U		< 0.0067	U		0.38	J		< 0.34	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 1	U		< 0.34	U		< 0.34	U		< 0.34	U	UJ	< 0.34	U	

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Table 3
Pre-SEE Soil Analytical Results

				Benzo(b)fluoranthene			Benzo(g-h-i)perylene			Benzo(k)fluoranthene			Benzoic acid			Benzyl alcohol			Bis(2-chloroethoxy)methane			Bis(2-chloroethyl)ether			bis(2-Chloroisopropyl)ether		
Screening Criteria (mg/kg)				0.9						9			400									0.0004					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-43-051723	43	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-58-051723	58	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-68-051323	68	5/17/2023	--			--			--			--			--			--			--			--		
SB-103	SB103-77-052423	77	5/24/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-42-062023	42	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-57-062023	57	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-65-062023	65	6/20/2023	--			--			--			--			--			--			--			--		
SB-104	SB104-78-062023	78	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-40-062023	40	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-55-062023	55	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-67-062023	67	6/20/2023	--			--			--			--			--			--			--			--		
SB-105	SB105-73-062023	73	6/20/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-39-061923	39	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-45-061923	45	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-58-061923	58	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-68-061923	68	6/19/2023	--			--			--			--			--			--			--			--		
SB-106	SB106-77-061923	77	6/19/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-15-061723	15	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-39-061723	39	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-58-061723	58	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-67-061723	67	6/17/2023	--			--			--			--			--			--			--			--		
SB-107	SB107-78-061723	78	6/17/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			--			--			--			--			--			--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			--			--			--			--			--			--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			--			--			--			--			--			--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			--			--			--			--			--			--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			--			--			--			--			--			--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			--			--			--			--			--			--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			--			--			--			--			--			--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			--			--			--			--			--			--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			--			--			--			--			--			--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			--			--			--			--			--			--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			--			--			--			--			--			--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			--			--			--			--			--			--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			--			--			--			--			--			--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			--			--			--			--			--			--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			--			--			--			--			--			--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			--			--			--			--			--			--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			--			--			--			--			--			--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			--			--			--			--			--			--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			--			--			--			--			--			--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			--			--			--			--			--			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			--			--			--			--			--			--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			--			--			--			--			--			--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			--			--			--			--			--			--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			--			--			--			--			--			--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			--			--			--			--			--			--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			--			--			--			--			--			--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			--			--			--			--			--			--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			--			--			--			--			--			--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			--			--			--			--			--			--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Benzo(b)fluoranthene			Benzo(g-h-i)perylene			Benzo(k)fluoranthene			Benzoic acid			Benzyl alcohol			Bis(2-chloroethoxy)methane			Bis(2-chloroethyl)ether			bis(2-Chloroisopropyl)ether		
Screening Criteria (mg/kg)				0.9						9			400									0.0004					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			--			--			--			--			--			--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			--			--			--			--			--			--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			--			--			--			--			--			--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			--			--			--			--			--			--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			--			--			--			--			--			--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			--			--			--			--			--			--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			--			--			--			--			--			--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			--			--			--			--			--			--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			--			--			--			--			--			--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			--			--			--			--			--			--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			--			--			--			--			--			--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			--			--			--			--			--			--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			--			--			--			--			--			--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			--			--			--			--			--			--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			--			--			--			--			--			--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			--			--			--			--			--			--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			--			--			--			--			--			--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			--			--			--			--			--			--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			--			--			--			--			--			--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			--			--			--			--			--			--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			--			--			--			--			--			--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			--			--			--			--			--			--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	--			--			--			--			--			--			--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	--			--			--			--			--			--			--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	--			--			--			--			--			--			--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	--			--			--			--			--			--			--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			--			--			--			--			--			--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	--			--			--			--			--			--			--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			--			--			--			--			--			--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	--			--			--			--			--			--			--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	--			--			--			--			--			--			--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	--			--			--			--			--			--			--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	--			--			--			--			--			--			--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	--			--			--			--			--			--			--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			--			--			--			--			--			--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	--			--			--			--			--			--			--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	--			--			--			--			--			--			--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	--			--			--			--			--			--			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				Bis(2-ethylhexyl)phthalate			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane			Butylbenzylphthalate			Carbon Disulfide		
Screening Criteria (mg/kg)				46									0.6			0.8			0.2			930			32		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	UF1		< 0.0053	U		< 0.33	U		< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.39	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 0.39	U		< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.4	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U*+		< 0.4	U		< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.39	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.39	U		< 0.0046	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.35	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.35	U		< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U		< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U		< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.41	U		< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.41	U		< 0.55	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.41	U		< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.41	U		< 0.37	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	< 0.38	U		< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 0.38	U		< 12	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	< 0.34	U		< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.34	U		0.00057	J	J
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.33	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.33	U		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.37	U		< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.37	U		< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.34	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.34	U		< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.34	U		< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U*+	UJ	< 0.34	U		< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U*+	UJ	< 0.34	U		< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.41	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.41	U		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.32	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.32	U		< 0.0052	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.36	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.36	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.44	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.44	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.0058	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.35	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.35	U		< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.33	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.33	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.33	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.33	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.36	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.36	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.36	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.36	U		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.41	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.41	U		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.34	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.34	U		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.35	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.35	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.35	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.35	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.37	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.37	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.35	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.35	U		< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.36	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.36	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.33	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.33	U		< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.34	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.34	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.35	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.35	U		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.33	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.33	U		< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.34	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.34	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.0054	U	UJ
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.34	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.34	U		< 0.0051	U	UJ
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.0056	U	UJ
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.0056	U	UJ
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.35	U		< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.35	U		< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.34	U		< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.34	U		< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.0051	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				Bis(2-ethylhexyl)phthalate			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane			Butylbenzylphthalate			Carbon Disulfide		
Screening Criteria (mg/kg)				46									0.6			0.8			0.2			930			32		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.144	U		< 0.288	U		--			< 0.0577	U	
SB-103	SB103-43-051723	43	5/17/2023	--			< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.122	U		< 0.244	U		--			< 0.0487	U	
SB-103	SB103-58-051723	58	5/17/2023	--			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0051	U		< 0.0102	U	UJ	--			< 0.0020	U	
SB-103	SB103-68-051323	68	5/17/2023	--			< 0.534	U		< 0.534	U		< 0.534	U		< 1.34	U		< 2.67	U		--			< 0.534	U	
SB-103	SB103-77-052423	77	5/24/2023	--			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0047	U		< 0.0094	U		--			< 0.0019	U	
SB-104	SB104-42-062023	42	6/20/2023	--			< 0.268	U		< 0.268	U		< 0.268	U		< 0.671	U		< 1.34	U		--			< 0.268	U	
SB-104	SB104-57-062023	57	6/20/2023	--			< 2.31	U		< 2.31	U		< 2.31	U		< 5.78	U		< 11.6	U		--			< 2.31	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			< 2.12	U		< 2.12	U		< 2.12	U		< 5.31	U		< 10.6	U		--			< 2.12	U	
SB-104	SB104-65-062023	65	6/20/2023	--			< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.15	U		< 0.3	U		--			< 0.0601	U	
SB-104	SB104-78-062023	78	6/20/2023	--			< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.152	U	UJ	< 0.304	U	UJ	--			< 0.0608	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	--			< 0.46	U		< 0.46	U		< 0.46	U		< 1.15	U		< 2.3	U	UJ	--			< 0.46	U	
SB-105	SB105-55-062023	55	6/20/2023	--			< 0.0607	U		< 0.0607	U	UJ	< 0.0607	U	UJ	< 0.152	U		< 0.304	U	UJ	--			< 0.0607	U	
SB-105	SB105-67-062023	67	6/20/2023	--			< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.13	U	UJ	< 0.259	U	UJ	--			< 0.0518	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	--			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0048	U		< 0.0095	U		--			< 0.0019	U	
SB-106	SB106-39-061923	39	6/19/2023	--			< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.145	U		< 0.291	U		--			< 0.0581	U	
SB-106	SB106-45-061923	45	6/19/2023	--			< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.154	U	UJ	< 0.308	U	UJ	--			< 0.0616	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.155	U		< 0.31	U		--			< 0.0620	U	
SB-106	SB106-58-061923	58	6/19/2023	--			< 0.692	U		< 0.692	U	UJ	< 0.692	U	UJ	< 1.73	U		< 3.46	U	UJ	--			< 0.692	U	
SB-106	SB106-68-061923	68	6/19/2023	--			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0047	U		< 0.0093	U		--			< 0.0019	U	
SB-106	SB106-77-061923	77	6/19/2023	--			< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.131	U		< 0.261	U		--			< 0.0523	U	
SB-107	SB107-15-061723	15	6/17/2023	--			< 0.446	U		< 0.446	U		< 0.446	U		< 1.12	U		< 2.23	U	UJ	--			< 0.446	U	
SB-107	SB107-39-061723	39	6/17/2023	--			< 0.379	U		< 0.379	U		< 0.379	U		< 0.948	U		< 1.9	U	UJ	--			< 0.379	U	
SB-107	SB107-58-061723	58	6/17/2023	--			< 0.125	U		< 0.125	U		< 0.125	U		< 0.313	U		< 0.627	U		--			< 0.125	U	
SB-107	SB107-67-061723	67	6/17/2023	--			< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 1.13	U	UJ	< 2.26	U	UJ	--			< 0.452	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	--			< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.12	U		< 0.24	U		--			< 0.0481	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0059	U		< 0.0118	U		--			< 0.0024	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			< 0.498	U		< 0.498	U		< 0.498	U		< 1.24	U		< 2.49	U		--			< 0.498	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			< 2.32	U		< 2.32	U		< 2.32	U		< 5.81	U		< 11.6	U		--			< 2.32	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0072	U		< 0.0143	U		--			< 0.0029	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			< 0.893	U		< 0.893	U		< 0.893	U		< 2.23	U		< 4.46	U	UJ	--			< 0.893	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			< 0.42	U		< 0.42	U		< 0.42	U		< 1.05	U		< 2.1	U	UJ	--			< 0.42	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			< 0.535	U		< 0.535	U	UJ	< 0.535	U	UJ	< 1.34	U		< 2.67	U	UJ	--			< 0.535	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			< 0.0597	U		< 0.0597	U	UJ	< 0.0597	U	UJ	< 0.149	U		< 0.298	U	UJ	--			< 0.0597	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			< 0.0021	U		< 0.0021	U	UJ	< 0.0021	U	UJ	< 0.0053	U		< 0.0106	U	UJ	--			< 0.0021	U	
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			< 0.122	U		< 0.122	U		< 0.122	U		< 0.304	U		< 0.609	U		--			< 0.122	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			< 4.54	U		< 4.54	U		< 4.54	U		< 11.3	U		< 22.7	U		--			< 4.54	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			< 1.12	U		< 1.12	U		< 1.12	U		< 2.81	U		< 5.61	U		--			< 1.12	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			< 0.482	U		< 0.482	U		< 0.482	U		< 1.21	U		< 2.41	U		--			< 0.482	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			< 0.449	U		< 0.449	U		< 0.449	U		< 1.12	U		< 2.24	U		--			< 0.449	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			< 3.59	U		< 3.59	U		< 3.59	U		< 8.97	U		< 17.9	U		--			< 3.59	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			< 0.139	U		< 0.139	U		< 0.139	U		< 0.347	U		< 0.694	U		--			< 0.139	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.23	U		< 0.46	U	UJ	--			< 0.0920	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			< 20.3	U		< 20.3	U		< 20.3	U		< 50.7	U		< 101	U		--			< 20.3	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.165	U		< 0.329	U		--			< 0.0658	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			< 0.0570	U		< 0.0570	U		< 0.0570	U		< 0.142	U		< 0.285	U		--			< 0.0570	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			< 0.216	U		< 0.216	U		< 0.216	U		< 0.539	U		< 1.08	U		--			< 0.216	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			< 0.0539	U		< 0.0539	U		< 0.0539	U		< 0.135	U		< 0.269	U		--			< 0.0539	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			< 1.05	U		< 1.05	U		< 1.05	U		< 2.62	U		< 5.24	U		--			< 1.05	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.128	U		< 0.255	U	UJ	--			< 0.0510	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			< 0.0516	U		< 0.0516	U		< 0.0516	U		< 0.129	U		< 0.258	U	UJ	--			< 0.0516	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			< 1.89	U		< 1.89	U		< 1.89	U		< 4.71	U		< 9.43	U	UJ	--			< 1.89	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			< 0.0575	U		< 0.0575	U		< 0.0575	U		< 0.144	U		< 0.287	U		--			< 0.0575	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			< 0.126	U		< 0.126	U		< 0.126	U		< 0.316	U		< 0.631	U		--			< 0.126	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			< 0.0501	U		< 0.0501	U		< 0.0501	U		< 0.125	U		< 0.25	U		--			< 0.0501	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			< 0.0579	U		< 0.0579	U		< 0.0579	U		< 0.145	U		< 0.29	U		--			< 0.0579	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			< 0.0460	U		< 0.0460	U		< 0.0460	U		< 0.115	U		< 0.23	U		--			< 0.0460	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			< 0.447	U		< 0.447	U		< 0.447	U		< 1.12	U		< 2.23	U		--			< 0.447	U	

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Table 3
Pre-SEE Soil Analytical Results

				Bis(2-ethylhexyl)phthalate			Bromobenzene			Bromochloromethane			Bromodichloromethane			Bromoform			Bromomethane			Butylbenzylphthalate			Carbon Disulfide		
Screening Criteria (mg/kg)				46									0.6			0.8			0.2			930			32		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0056	U		< 0.0111	U		--			< 0.0022	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			< 0.442	U		< 0.442	U		< 0.442	U		< 1.1	U		< 2.21	U	UJ	--			< 0.442	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			< 0.444	U		< 0.444	U		< 0.444	U		< 1.11	U		< 2.22	U	UJ	--			< 0.444	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0060	U		< 0.0121	U		--			< 0.0024	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			< 0.377	U		< 0.377	U		< 0.377	U		< 0.942	U		< 1.88	U		--			< 0.377	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			< 21.7	U		< 21.7	U		< 21.7	U		< 54.2	U		< 108	U		--			< 21.7	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			< 12.3	U		< 12.3	U		< 12.3	U		< 30.7	U		< 61.4	U	UJ	--			< 12.3	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			< 1.41	U		< 1.41	U		< 1.41	U		< 3.52	U		< 7.04	U		--			< 1.41	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			< 0.218	U		< 0.218	U		< 0.218	U		< 0.545	U		< 1.09	U		--			< 0.218	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.192	U	UJ	< 0.384	U	UJ	--			< 0.0768	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.13	U		< 0.26	U		--			< 0.0519	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			< 0.423	U		< 0.423	U		< 0.423	U		< 1.06	U		< 2.11	U	UJ	--			< 0.423	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			< 0.481	U		< 0.481	U		< 0.481	U		< 1.2	U		< 2.41	U	UJ	--			< 0.481	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			< 0.88	U		< 0.88	U		< 0.88	U		< 2.2	U		< 4.4	U	UJ	--			< 0.88	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			< 2.29	U		< 2.29	U		< 2.29	U		< 5.72	U		< 11.4	U	UJ	--			< 2.29	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			< 2.33	U		< 2.33	U		< 2.33	U		< 5.83	U		< 11.7	U	UJ	--			< 2.33	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.145	U		< 0.291	U		--			< 0.0581	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			< 0.474	U		< 0.474	U		< 0.474	U		< 1.18	U		< 2.37	U		--			< 0.474	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			< 0.443	U		< 0.443	U		< 0.443	U		< 1.11	U		< 2.21	U		--			< 0.443	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			< 0.453	U		< 0.453	U		< 0.453	U		< 1.13	U		< 2.27	U		--			< 0.453	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			< 0.421	U		< 0.421	U		< 0.421	U		< 1.05	U		< 2.11	U		--			< 0.421	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			< 0.449	U		< 0.449	U		< 0.449	U		< 1.12	U		< 2.25	U		--			< 0.449	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			< 5.13	U		< 5.13	U		< 5.13	U		< 12.8	U		< 25.6	U		--			< 5.13	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			< 0.0698	U		< 0.0698	U	UJ	< 0.0698	U	UJ	< 0.174	U		< 0.349	U	UJ	--			< 0.0698	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			< 0.29	U		< 0.29	U		< 0.29	U		< 0.725	U		< 1.45	U		--			< 0.29	U	
T-AB2	TAB2-48-061523	48	6/15/2023	--			< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.158	U		< 0.316	U		--			< 0.0633	U	
T-AB2	TAB2-59-061523	59	6/15/2023	--			< 0.836	U		< 0.836	U		< 0.836	U		< 2.09	U		< 4.18	U	UJ	--			< 0.836	U	
T-BG2	TBG2-48-071123	48	7/11/2023	--			< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0057	U		< 0.0113	U		--			< 0.0023	U	
T-BG2	TBG2-59-071123	59	7/11/2023	--			< 0.0020	U		< 0.0020	U	UJ	< 0.0020	U	UJ	< 0.0051	U		< 0.0101	U	UJ	--			< 0.0020	U	
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			< 0.0022	U		< 0.0022	U	UJ	< 0.0022	U	UJ	< 0.0054	U		< 0.0108	U	UJ	--			< 0.0022	U	
X-AD2	XAD2-49-052323	49	5/23/2023	--			< 0.512	U		< 0.512	U		< 0.512	U		< 1.28	U		< 2.56	U		--			< 0.512	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			< 0.469	U		< 0.469	U		< 0.469	U		< 1.17	U		< 2.35	U		--			< 0.469	U	
X-AD2	XAD2-58-052323	58	5/23/2023	--			< 0.444	U		< 0.444	U		< 0.444	U		< 1.11	U		< 2.22	U		--			< 0.444	U	
X-AE4	XAE4-40-030223	40	3/2/2023	--			< 12.4	U		< 12.4	U		< 12.4	U		< 30.9	U		< 61.8	U		--			< 12.4	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			< 12	U		< 12	U		< 12	U		< 30	U		< 60.1	U		--			< 12	U	
X-AE4	XAE4-48-030223	48	3/2/2023	--			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0051	U		< 0.0101	U		--			< 0.0020	U	
X-AE4	XAE4-52-030223	52	3/2/2023	--			< 0.44	U		< 0.44	U		< 0.44	U		< 1.1	U		< 2.2	U		--			< 0.44	U	
X-AF6	XAF6-40-022723	40	2/27/2023	--			< 0.627	U		< 0.627	U		< 0.627	U		< 1.57	U		< 3.14	U	UJ	--			< 0.627	U	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			< 2.31	U		< 2.31	U		< 2.31	U		< 5.77	U		< 11.5	U		--			< 2.31	U	
X-AF6	XAF6-47-022723	47	2/27/2023	--			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0059	U		< 0.0118	U	UJ	--			< 0.0024	U	
X-AF6	XAF6-58-022723	58	2/27/2023	--			< 0.489	U		< 0.489	U		< 0.489	U		< 1.22	U		< 2.44	U		--			< 0.489	U	
X-AG5	XAG5-40-031823	40	3/18/2023	--			< 10.3	U		< 10.3	U		< 10.3	U		< 25.9	U		< 51.7	U		--			< 10.3	U	
X-AG5	XAG5-49-031823	49	3/18/2023	--			< 0.551	U		< 0.551	U		< 0.551	U		< 1.38	U		< 2.75	U		--			< 0.551	U	
X-AG5	XAG5-56-031823	56	3/18/2023	--			< 0.0963	U		< 0.0963	U		< 0.0963	U		< 0.241	U		< 0.482	U		--			< 0.0963	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			< 23.8	U		< 23.8	U		< 23.8	U		< 59.5	U		< 119	U		--			< 23.8	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			< 0.477	U		< 0.477	U		< 0.477	U		< 1.19	U		< 2.39	U		--			< 0.477	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			< 0.997	U		< 0.997	U		< 0.997	U		< 2.49	U		< 4.98	U		--			< 0.997	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			< 0.0980	U		< 0.0980	U		< 0.0980	U		< 0.245	U		< 0.49	U	UJ	--			< 0.0980	U	
X-BB2	XBB2-4-030123	4	3/1/2023	--			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0054	U		< 0.0109	U		--			< 0.0022	U	
X-BB2	XBB2-9-030123	9	3/1/2023	--			< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0059	U		< 0.0117	U		--			< 0.0023	U	
X-BB2	XBB2-38-051823	38	5/18/2023	--			< 4.57	U		< 4.57	U		< 4.57	U		< 11.4	U		< 22.9	U	UJ	--			< 4.57	U	
X-BB2	XBB2-47-051823	47	5/18/2023	--			< 9.71	U		< 9.71	U		< 9.71	U		< 24.3	U		< 48.5	U	UJ	--			< 9.71	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			< 24.7	U		< 24.7	U		< 24.7	U		< 61.8	U		< 124	U	UJ	--			< 24.7	U	
X-BC3	XBC3-4-022423	4	2/24/2023	--			< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0046	U		< 0.0092	U		--			**0.0052**		
X-BC3	XBC3-9-022423	9	2/24/2023	--			< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0053	U		< 0.0106	U		--			< 0.0021	U	
X-BC3	XBC3-38-062123	38	6/21/2023	--			< 0.0689	U		< 0.0689	U		< 0.0689	U		< 0.172	U		< 0.345	U		--			< 0.0689	U	
X-BC3	XBC3-47-062123	47	6/21/2023	--			< 4.56	U		< 4.56	U		< 4.56	U		< 11.4	U		< 22.8	U		--			< 4.56	U	
X-BC3	XBC3-58-062123	58	6/21/2023	--			< 1.07	U		< 1.07	U		< 1.07	U		< 2.66	U		< 5.33	U		--			< 1.07	U	

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Table 3
Pre-SEE Soil Analytical Results

				Carbon Tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Chrysene			cis-1,2-Dichloroethene		
Screening Criteria (mg/kg)				0.07			1			0.4						0.3						88			0.4		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0066	JB	UJ	< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 0.0077	JB	UJ	< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 0.0080	JB	UJ	< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0078	U		< 0.0046	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0069	JB	UJ	< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	0.0050	J		< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.0080	U		< 0.55	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.0081	U		< 0.37	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 0.0076	JB	UJ	< 12	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.0043	U	UJ	0.0073		J	< 0.0043	U	UJ	< 0.0069	JB	UJ	< 0.0043	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		0.047	B		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	0.0017	J		< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	0.0015	J		< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0077	B	UJ	< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U		< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0067	U		< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		0.0023	J		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0065	U		< 0.0052	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0072	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0088	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		0.0055			< 0.0053	U		< 0.0065	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		0.0063			< 0.0058	U		< 0.0067	U		< 0.0058	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0067	JB	UJ	< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0069	JB	UJ	< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.0066	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0068	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		0.0015	J		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0067	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0071	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		0.0020	J		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		0.0070	J		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		0.0015	J		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		0.0019	J		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		0.0052	J		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		0.0055	J		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0070	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0069	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0069	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0074	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0070	JB	UJ	< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0066	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0067	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0072	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0067	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0084	B	UJ	< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0068	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0069	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0071	U		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0065	JB	UJ	< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0068	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0067	U		< 0.0054	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0068	U		< 0.0051	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0069	U		< 0.0056	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0068	U		< 0.0056	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	0.0016	J		< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0067	U		< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0068	U		< 0.0051	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				Carbon Tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Chrysene			cis-1,2-Dichloroethene		
Screening Criteria (mg/kg)				0.07			1			0.4						0.3						88			0.4		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.288	U		< 0.0577	U		< 0.288	U		--			< 0.0577	U	
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.244	U		< 0.0487	U		< 0.244	U		--			< 0.0487	U	
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0102	U	UJ	< 0.0020	U		< 0.0102	U		--			< 0.0020	U	
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		< 0.534	U		< 0.534	U		< 2.67	U		< 0.534	U		< 2.67	U		--			< 0.534	U	
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0094	U		< 0.0019	U		< 0.0094	U		--			< 0.0019	U	UJ
SB-104	SB104-42-062023	42	6/20/2023	< 0.268	U		< 0.268	U		< 0.268	U		< 1.34	U		< 0.268	U		< 1.34	U		--			< 0.268	U	
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		< 2.31	U		< 2.31	U		< 11.6	U		< 2.31	U		< 11.6	U		--			< 2.31	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		< 2.12	U		< 2.12	U		< 10.6	U		< 2.12	U		< 10.6	U		--			< 2.12	U	
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.3	U		< 0.0601	U		< 0.3	U		--			< 0.0601	U	
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.304	U	UJ	< 0.0608	U	UJ	< 0.304	U	UJ	--			< 0.0608	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		< 0.46	U		< 0.46	U		< 2.3	U		< 0.46	U		< 2.3	U		--			< 0.46	U	
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		< 0.0607	U		< 0.0607	U	UJ	< 0.304	U	UJ	< 0.0607	U		< 0.304	U	UJ	--			< 0.0607	U	
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.259	U	UJ	< 0.0518	U	UJ	< 0.259	U	UJ	--			< 0.0518	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0095	U		< 0.0019	U		< 0.0095	U		--			< 0.0019	U	
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.291	U		< 0.0581	U		< 0.291	U		--			< 0.0581	U	
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.308	U	UJ	< 0.0616	U	UJ	< 0.308	U	UJ	--			< 0.0616	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.31	U		< 0.0620	U		< 0.31	U		--			< 0.0620	U	
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		< 0.692	U		< 0.692	U	UJ	< 3.46	U	UJ	< 0.692	U		< 3.46	U	UJ	--			< 0.692	U	
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0093	U		< 0.0019	U		< 0.0093	U		--			< 0.0019	U	
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.261	U		< 0.0523	U		< 0.261	U		--			< 0.0523	U	
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		**0.697**			< 0.446	U		< 2.23	U		< 0.446	U		< 2.23	U		--			< 0.446	U	
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		< 0.379	U		< 0.379	U		< 1.9	U		< 0.379	U		< 1.9	U		--			< 0.379	U	
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		< 0.125	U		< 0.125	U		< 0.627	U		< 0.125	U		< 0.627	U		--			< 0.125	U	
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 2.26	U	UJ	< 0.452	U	UJ	< 2.26	U	UJ	--			< 0.452	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.24	U		< 0.0481	U		< 0.24	U		--			< 0.0481	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0118	U		< 0.0024	U		< 0.0118	U		--			< 0.0024	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		< 0.498	U		< 0.498	U		< 2.49	U		< 0.498	U		< 2.49	U		--			< 0.498	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		< 2.32	U		< 2.32	U		< 11.6	U		< 2.32	U		< 11.6	U		--			< 2.32	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0143	U		< 0.0029	U		< 0.0143	U		--			< 0.0029	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		< 0.893	U		< 0.893	U		< 4.46	U	UJ	< 0.893	U		< 4.46	U	UJ	--			< 0.893	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		< 0.42	U		< 0.42	U		< 2.1	U	UJ	< 0.42	U		< 2.1	U	UJ	--			< 0.42	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		< 0.535	U		< 0.535	U	UJ	< 2.67	U	UJ	< 0.535	U		< 2.67	U	UJ	--			< 0.535	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 0.0597	U		< 0.0597	U		< 0.0597	U	UJ	< 0.298	U	UJ	< 0.0597	U		< 0.298	U	UJ	--			< 0.0597	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	< 0.0021	U		< 0.0021	U		< 0.0021	U	UJ	< 0.0106	U	UJ	< 0.0021	U		< 0.0106	U	UJ	--			< 0.0021	U	
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		< 0.122	U		< 0.122	U		< 0.609	U	UJ	< 0.122	U		< 0.609	U	UJ	--			< 0.122	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 4.54	U		< 4.54	U		< 4.54	U		< 22.7	U		< 4.54	U		< 22.7	U		--			< 4.54	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 1.12	U		< 1.12	U		< 1.12	U		< 5.61	U	UJ	< 1.12	U		< 5.61	U	UJ	--			< 1.12	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		< 0.482	U		< 0.482	U		< 2.41	U		< 0.482	U		< 2.41	U		--			< 0.482	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		< 0.449	U		< 0.449	U		< 2.24	U		< 0.449	U		**0.49**	J		--			< 0.449	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		< 3.59	U		< 3.59	U		< 17.9	U		< 3.59	U		< 17.9	U		--			< 3.59	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		< 0.139	U		< 0.139	U		< 0.694	U		< 0.139	U		**0.15**	J		--			< 0.139	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.46	U		< 0.0920	U		< 0.46	U	UJ	--			< 0.0920	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 20.3	U		< 20.3	U		< 20.3	U		< 101	U		< 20.3	U		< 101	U		--			< 20.3	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.329	U		< 0.0658	U		< 0.329	U		--			< 0.0658	U	UJ
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		< 0.0570	U		< 0.0570	U		< 0.285	U		< 0.0570	U		< 0.285	U		--			< 0.0570	U	UJ
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 0.216	U		< 0.216	U		< 0.216	U		< 1.08	U		< 0.216	U		< 1.08	U		--			< 0.216	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 0.0539	U		< 0.0539	U		< 0.0539	U		< 0.269	U		< 0.0539	U		< 0.269	U		--			< 0.0539	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 1.05	U		< 1.05	U		< 1.05	U		< 5.24	U		< 1.05	U		< 5.24	U		--			< 1.05	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.255	U		< 0.0510	U		< 0.255	U	UJ	--			< 0.0510	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 0.0516	U		< 0.0516	U		< 0.0516	U		< 0.258	U		< 0.0516	U		**0.21**	J	J	--			< 0.0516	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 1.89	U		< 1.89	U		< 1.89	U		< 9.43	U		< 1.89	U		< 9.43	U	UJ	--			< 1.89	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 0.0575	U		< 0.0575	U		< 0.0575	U		< 0.287	U		< 0.0575	U		< 0.287	U		--			< 0.0575	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		< 0.126	U		< 0.126	U		< 0.631	U		< 0.126	U		< 0.631	U		--			< 0.126	U	UJ
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 0.0501	U		< 0.0501	U		< 0.0501	U		< 0.25	U		< 0.0501	U		< 0.25	U		--			< 0.0501	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 0.0579	U		< 0.0579	U		< 0.0579	U		< 0.29	U		< 0.0579	U		< 0.29	U	UJ	--			< 0.0579	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		< 0.0460	U		< 0.0460	U		< 0.23	U		< 0.0460	U		< 0.23	U	UJ	--			< 0.0460	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 0.447	U		< 0.447	U		< 0.447	U		< 2.23	U		< 0.447	U		< 2.23	U	UJ	--			< 0.447	U	

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Table 3
Pre-SEE Soil Analytical Results

				Carbon Tetrachloride			Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			Chrysene			cis-1,2-Dichloroethene		
Screening Criteria (mg/kg)				0.07			1			0.4						0.3						88			0.4		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0111	U		< 0.0022	U		< 0.0111	U		--			< 0.0022	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		< 0.442	U		< 0.442	U		< 2.21	U	UJ	< 0.442	U		< 2.21	U		--			< 0.442	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 0.444	U		< 0.444	U		< 0.444	U		< 2.22	U	UJ	< 0.444	U		< 2.22	U		--			< 0.444	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0121	U		< 0.0024	U		< 0.0121	U		--			< 0.0024	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 0.377	U		< 0.377	U		< 0.377	U		< 1.88	U		< 0.377	U		< 1.88	U		--			< 0.377	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 21.7	U		< 21.7	U		< 21.7	U		< 108	U		< 21.7	U		< 108	U		--			< 21.7	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		< 12.3	U		< 12.3	U		< 61.4	U		< 12.3	U		< 61.4	U		--			< 12.3	BU	
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 1.41	U		< 1.41	U		< 1.41	U		< 7.04	U		< 1.41	U		< 7.04	U		--			< 1.41	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 0.218	U		< 0.218	U		< 0.218	U		< 1.09	U		< 0.218	U		< 1.09	U		--			< 0.218	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.384	U	UJ	< 0.0768	U	UJ	< 0.384	U	UJ	--			< 0.0768	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.26	U		< 0.0519	U		< 0.26	U		--			< 0.0519	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		< 0.423	U		< 0.423	U		< 2.11	U		< 0.423	U		< 2.11	U		--			< 0.423	BU	
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		< 0.481	U		< 0.481	U		< 2.41	U		< 0.481	U		< 2.41	U		--			< 0.481	BU	
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		< 0.88	U		< 0.88	U		< 4.4	U		< 0.88	U		< 4.4	U		--			< 0.88	BU	
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 2.29	U		< 2.29	U		< 2.29	U		< 11.4	U		< 2.29	U		< 11.4	U		--			< 2.29	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 2.33	U		< 2.33	U		< 2.33	U		< 11.7	U		< 2.33	U		< 11.7	U		--			< 2.33	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.291	U		< 0.0581	U		< 0.291	U		--			< 0.0581	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U		< 0.474	U		< 0.474	U		< 2.37	U		< 0.474	U		< 2.37	U		--			< 0.474	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 0.443	U		< 0.443	U		< 0.443	U		< 2.21	U		< 0.443	U		< 2.21	U		--			< 0.443	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		< 0.453	U		< 0.453	U		< 2.27	U		< 0.453	U		< 2.27	U		--			< 0.453	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 0.421	U		< 0.421	U		< 0.421	U		< 2.11	U		< 0.421	U		< 2.11	U		--			< 0.421	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 0.449	U		< 0.449	U		< 0.449	U		< 2.25	U		< 0.449	U		< 2.25	U		--			< 0.449	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		< 5.13	U		< 5.13	U		< 25.6	U		< 5.13	U		< 25.6	U		--			< 5.13	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		< 0.0698	U		< 0.0698	U	UJ	< 0.349	U	UJ	< 0.0698	U		**0.602**		J	--			< 0.0698	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		< 0.29	U		< 0.29	U		< 1.45	U		< 0.29	U		< 1.45	U	UJ	--			< 0.29	U	
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.316	U		< 0.0633	U		**0.575**			--			< 0.0633	U	
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		< 0.836	U		< 0.836	U		< 4.18	U		< 0.836	U		< 4.18	U		--			< 0.836	U	
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0113	U		< 0.0023	U		< 0.0113	U	UJ	--			< 0.0023	U	
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0020	U		< 0.0020	U		< 0.0020	U	UJ	< 0.0101	U	UJ	< 0.0020	U		< 0.0101	U	UJ	--			< 0.0020	U	
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U	UJ	< 0.0108	U	UJ	< 0.0022	U		< 0.0108	U	UJ	--			< 0.0022	U	
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		< 0.512	U		< 0.512	U		< 2.56	U		< 0.512	U		< 2.56	U		--			< 0.512	U	UJ
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		< 0.469	U		< 0.469	U		< 2.35	U		< 0.469	U		< 2.35	U		--			< 0.469	U	UJ
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		< 0.444	U		< 0.444	U		< 2.22	U		< 0.444	U		< 2.22	U		--			< 0.444	U	UJ
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		< 12.4	U		< 12.4	U		< 61.8	U		< 12.4	U		< 61.8	U		--			< 12.4	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		< 12	U		< 12	U		< 60.1	U		< 12	U		< 60.1	U		--			< 12	U	
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0101	U		< 0.0020	U		< 0.0101	U		--			< 0.0020	U	
X-AE4	XAE4-52-030223	52	3/2/2023	< 0.44	U		< 0.44	U		< 0.44	U		< 2.2	U		**0.18**	J		< 2.2	U	UJ	--			< 0.44	U	
X-AF6	XAF6-40-022723	40	2/27/2023	< 0.627	U		< 0.627	U		< 0.627	U		< 3.14	U		< 0.627	U		< 3.14	U		--			**0.32**	J	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 2.31	U		< 2.31	U		< 2.31	U		< 11.5	U		< 2.31	U		< 11.5	U		--			< 2.31	U	
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0118	U		< 0.0024	U		< 0.0118	U		--			**0.0008**	J	
X-AF6	XAF6-58-022723	58	2/27/2023	< 0.489	U		< 0.489	U		< 0.489	U		< 2.44	U		< 0.489	U		< 2.44	U		--			< 0.489	U	
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		< 10.3	U		< 10.3	U		< 51.7	U		< 10.3	U		< 51.7	U		--			< 10.3	U	
X-AG5	XAG5-49-031823	49	3/18/2023	< 0.551	U		< 0.551	U		< 0.551	U		< 2.75	U		< 0.551	U		< 2.75	U	UJ	--			< 0.551	U	
X-AG5	XAG5-56-031823	56	3/18/2023	< 0.0963	U		< 0.0963	U		< 0.0963	U		< 0.482	U		< 0.0963	U		< 0.482	U		--			< 0.0963	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		< 23.8	U		< 23.8	U		< 119	U		< 23.8	U		< 119	U		--			< 23.8	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		< 0.477	U		< 0.477	U		< 2.39	U		< 0.477	U		< 2.39	U		--			< 0.477	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		< 0.997	U		< 0.997	U		< 4.98	U		< 0.997	U		< 4.98	U		--			< 0.997	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 0.0980	U		< 0.0980	U		< 0.0980	U		< 0.49	U	UJ	< 0.0980	U		**0.3**	J		--			< 0.0980	U	
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0109	U		< 0.0022	U		< 0.0109	U		--			< 0.0022	U	
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0117	U		< 0.0023	U		< 0.0117	U		--			< 0.0023	U	
X-BB2	XBB2-38-051823	38	5/18/2023	< 4.57	U		< 4.57	U		< 4.57	U		< 22.9	U	UJ	< 4.57	U		< 22.9	U		--			< 4.57	U	
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		< 9.71	U		< 9.71	U		< 48.5	U	UJ	< 9.71	U		< 48.5	U		--			< 9.71	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		< 24.7	U		< 24.7	U		< 124	U	UJ	< 24.7	U		< 124	U		--			< 24.7	U	
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0092	U	UJ	< 0.0018	U		< 0.0092	U		--			< 0.0018	U	
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0106	U	UJ	< 0.0021	U		< 0.0106	U		--			< 0.0021	U	
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0689	U		< 0.0689	U		< 0.0689	U		< 0.345	U		< 0.0689	U		< 0.345	U		--			< 0.0689	U	
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		< 4.56	U		< 4.56	U		< 22.8	U		< 4.56	U		< 22.8	U		--			< 4.56	U	
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		< 1.07	U		< 1.07	U		< 5.33	U		< 1.07	U		< 5.33	U		--			< 1.07	U	

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Table 3
Pre-SEE Soil Analytical Results

				cis-1,3-Dichloropropene			Dibenz(a,h)acridine			Dibenzo(a-h)anthracene			Dibenzofuran			Dibromomethane			Dichlorodifluoromethane			Diethylphthalate			Dimethylphthalate		
Screening Criteria (mg/kg)										0.09												470					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.33	U		< 0.0066	U		< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.33	U*+	
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 0.39	U		< 0.0077	U		< 0.39	U		< 13	U		< 13	U		< 0.39	U		< 0.39	U*+	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 0.4	U		< 0.0080	U		< 0.4	U		< 3.6	U		< 3.6	U		< 0.4	U		< 0.4	U*+	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.39	U		< 0.0078	U		< 0.39	U	UJ	< 0.0046	U		< 0.0046	U		< 0.39	U		< 0.39	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.35	U		< 0.0069	U		< 0.35	U		< 0.0054	U		< 0.0054	U		< 0.35	U		< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 0.38	U		< 0.0076	U		< 0.38	U		< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U		< 0.38	U*+	
SB-102	SB102-52-120622	52	12/6/2022	< 0.55	U	UJ	< 0.41	U		< 0.0080	U		< 0.41	U		< 0.55	U	UJ	< 0.55	U	UJ	< 0.41	U		< 0.41	U*+	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.37	U	UJ	< 0.41	U		< 0.0081	U		< 0.41	U		< 0.37	U	UJ	< 0.37	U	UJ	< 0.41	U		< 0.41	U*+	
SB-102	SB102-55-120622	55	12/6/2022	< 12	U	UJ	< 0.38	U		< 0.0076	U		< 0.38	U		< 12	U	UJ	< 12	U	UJ	< 0.38	U		< 0.38	U*+	
SB-102	SB102-72-120622	72	12/6/2022	< 0.0043	U	UJ	< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0043	U	UJ	< 0.0043	U	UJ	< 0.34	U		< 0.34	U*+	
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.33	U		0.012			< 0.33	U		< 0.0054	U		< 0.0054	U		< 0.33	U		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.37	U		< 0.0074	U		< 0.37	U		< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.37	U		< 0.37	U	
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.34	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0057	U		< 0.0057	U		< 0.34	U		< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.34	U		< 0.34	U*+	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.34	U*+	
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.41	U		< 0.0083	U		< 0.41	U		< 0.0060	U		< 0.0060	U		< 0.41	U		< 0.41	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.32	U		< 0.0065	U		< 0.32	U		< 0.0052	U		< 0.0052	U		< 0.32	U		< 0.32	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.36	U		< 0.0072	U		< 0.36	U		< 0.0055	U		< 0.0055	U		< 0.36	U		< 0.36	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.44	U		< 0.0088	U		< 0.44	U		< 0.0053	U		< 0.0053	U		< 0.44	U		< 0.44	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.33	U		< 0.0065	U		< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.33	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.34	U*-	UJ	< 0.0067	U		< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.34	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.35	U*-	UJ	< 0.0069	U		< 0.35	U		< 0.0053	U		< 0.0053	U		< 0.35	U		< 0.35	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.33	U*-	UJ	< 0.0066	U		< 0.33	U		< 0.01	U		< 0.01	U		< 0.33	U		< 0.33	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.34	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.0081	U		< 0.0081	U		< 0.33	U		< 0.33	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.36	U		< 0.0071	U		< 0.36	U		< 0.0072	U		< 0.0072	U		< 0.36	U		< 0.36	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.36	U		< 0.0071	U		< 0.36	U		< 0.0068	U		< 0.0068	U		< 0.36	U		< 0.36	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.41	U		< 0.0083	U		< 0.41	U		< 0.0053	U		< 0.0053	U		< 0.41	U		< 0.41	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0036	U		< 0.0036	U		< 0.34	U		< 0.34	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.34	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.34	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.35	U		< 0.0070	U		< 0.35	U		< 0.0062	U		< 0.0062	U		< 0.35	U		< 0.35	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.35	U		< 0.0069	U		< 0.35	U		< 0.0061	U		< 0.0061	U		< 0.35	U		< 0.35	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.37	U		< 0.0074	U		< 0.37	U		< 0.0059	U		< 0.0059	U		< 0.37	U		< 0.37	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.35	U*-	UJ	< 0.0070	U		< 0.35	U		< 0.0056	U		< 0.0056	U		< 0.35	U		< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.33	U*-	UJ	< 0.0066	U		< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.33	U*-	UJ	< 0.0067	U		< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.36	U*-	UJ	< 0.0072	U		< 0.36	U		< 0.0098	U		< 0.0098	U		< 0.36	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.33	U*-	UJ	< 0.0067	U		< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.33	U*-	UJ	0.0040	J		< 0.33	U		< 0.0049	U		< 0.0049	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.34	U*-	UJ	< 0.0068	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.34	U*-	UJ	< 0.0069	U		< 0.34	U		< 0.0062	U		< 0.0062	U		< 0.34	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.35	U*-	UJ	< 0.0071	U		< 0.35	U		< 0.0055	U		< 0.0055	U		< 0.35	U		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.33	U*-	UJ	< 0.0065	U		< 0.33	U		< 0.0051	U		< 0.0051	U		< 0.33	U		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.34	U*-	UJ	< 0.0068	U		< 0.34	U		< 0.0052	U		< 0.0052	U		< 0.34	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.34	U		< 0.34	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0051	U		< 0.0051	U		< 0.34	U		< 0.34	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.34	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.34	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.35	U		< 0.0070	U		< 0.35	U		< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.35	U		< 0.35	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.34	U		< 0.34	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.34	U	

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Table 3
Pre-SEE Soil Analytical Results

				cis-1,3-Dichloropropene			Dibenz(a,h)acridine			Dibenzo(a-h)anthracene			Dibenzofuran			Dibromomethane			Dichlorodifluoromethane			Diethylphthalate			Dimethylphthalate		
Screening Criteria (mg/kg)										0.09												470					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		--			--			--			< 0.0577	U		< 0.288	U		--			--		
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		--			--			--			< 0.0487	U		< 0.244	U		--			--		
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		--			--			--			< 0.0020	U		< 0.0102	U		--			--		
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		--			--			--			< 0.534	U		< 2.67	U		--			--		
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		--			--			--			< 0.0019	U		< 0.0094	U		--			--		
SB-104	SB104-42-062023	42	6/20/2023	< 0.268	U		--			--			--			< 0.268	U		< 1.34	U		--			--		
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		--			--			--			< 2.31	U		< 11.6	U	UJ	--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		--			--			--			< 2.12	U		< 10.6	U	UJ	--			--		
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		--			--			--			< 0.0601	U		< 0.3	U		--			--		
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	--			--			--			< 0.0608	U	UJ	< 0.304	U	UJ	--			--		
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		--			--			--			< 0.46	U		< 2.3	U		--			--		
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		--			--			--			< 0.0607	U	UJ	< 0.304	U	UJ	--			--		
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	--			--			--			< 0.0518	U	UJ	< 0.259	U	UJ	--			--		
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		--			--			--			< 0.0019	U		< 0.0095	U		--			--		
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		--			--			--			< 0.0581	U		< 0.291	U	UJ	--			--		
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	--			--			--			< 0.0616	U	UJ	< 0.308	U	UJ	--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		--			--			--			< 0.0620	U		< 0.31	U		--			--		
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		--			--			--			< 0.692	U	UJ	< 3.46	U	UJ	--			--		
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		--			--			--			< 0.0019	U		< 0.0093	U		--			--		
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		--			--			--			< 0.0523	U		< 0.261	U		--			--		
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		--			--			--			< 0.446	U		< 2.23	U	UJ	--			--		
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		--			--			--			< 0.379	U		< 1.9	U	UJ	--			--		
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		--			--			--			< 0.125	U		< 0.627	U	UJ	--			--		
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	--			--			--			< 0.452	U	UJ	< 2.26	U	UJ	--			--		
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		--			--			--			< 0.0481	U		< 0.24	U	UJ	--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		--			--			--			< 0.0024	U		< 0.0118	U	UJ	--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		--			--			--			< 0.498	U		< 2.49	U	UJ	--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		--			--			--			< 2.32	U		< 11.6	U	UJ	--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		--			--			--			< 0.0029	U		< 0.0143	U	UJ	--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		--			--			--			< 0.893	U		< 4.46	U	UJ	--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		--			--			--			< 0.42	U		< 2.1	U	UJ	--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		--			--			--			< 0.535	U	UJ	< 2.67	U	UJ	--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 0.0597	U		--			--			--			< 0.0597	U	UJ	< 0.298	U	UJ	--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	< 0.0021	U		--			--			--			< 0.0021	U	UJ	< 0.0106	U	UJ	--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		--			--			--			< 0.122	U		< 0.609	U		--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 4.54	U		--			--			--			< 4.54	U		< 22.7	U	UJ	--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 1.12	U		--			--			--			< 1.12	U		< 5.61	U		--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		--			--			--			< 0.482	U		< 2.41	U	UJ	--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		--			--			--			< 0.449	U		< 2.24	U	UJ	--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		--			--			--			< 3.59	U		< 17.9	U	UJ	--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		--			--			--			< 0.139	U		< 0.694	U		--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		--			--			--			< 0.0920	U		< 0.46	U	UJ	--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 20.3	U		--			--			--			< 20.3	U		< 101	U		--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		--			--			--			< 0.0658	U		< 0.329	U		--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		--			--			--			< 0.0570	U		< 0.285	U		--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 0.216	U		--			--			--			< 0.216	U		< 1.08	U		--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 0.0539	U		--			--			--			< 0.0539	U		< 0.269	U		--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 1.05	U		--			--			--			< 1.05	U		< 5.24	U		--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		--			--			--			< 0.0510	U		< 0.255	U		--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 0.0516	U		--			--			--			< 0.0516	U		< 0.258	U		--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 1.89	U		--			--			--			< 1.89	U		< 9.43	U		--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 0.0575	U		--			--			--			< 0.0575	U		< 0.287	U		--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		--			--			--			< 0.126	U		< 0.631	U		--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 0.0501	U		--			--			--			< 0.0501	U		< 0.25	U		--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 0.0579	U		--			--			--			< 0.0579	U		< 0.29	U		--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		--			--			--			< 0.0460	U		< 0.23	U		--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 0.447	U		--			--			--			< 0.447	U		< 2.23	U		--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				cis-1,3-Dichloropropene			Dibenz(a,h)acridine			Dibenzo(a-h)anthracene			Dibenzofuran			Dibromomethane			Dichlorodifluoromethane			Diethylphthalate			Dimethylphthalate		
Screening Criteria (mg/kg)										0.09												470					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		--			--			--			< 0.0022	U		< 0.0111	U	UJ	--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		--			--			--			< 0.442	U		< 2.21	U		--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 0.444	U		--			--			--			< 0.444	U		< 2.22	U		--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0024	U		--			--			--			< 0.0024	U		< 0.0121	U		--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 0.377	U		--			--			--			< 0.377	U		< 1.88	U		--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 21.7	U		--			--			--			< 21.7	U		< 108	U		--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		--			--			--			< 12.3	U		< 61.4	U		--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 1.41	U		--			--			--			< 1.41	U		< 7.04	U	UJ	--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 0.218	U		--			--			--			< 0.218	U		< 1.09	U	UJ	--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	--			--			--			< 0.0768	U	UJ	< 0.384	U	UJ	--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		--			--			--			< 0.0519	U		< 0.26	U		--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		--			--			--			< 0.423	U		< 2.11	U		--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		--			--			--			< 0.481	U		< 2.41	U		--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		--			--			--			< 0.88	U		< 4.4	U		--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 2.29	U		--			--			--			< 2.29	U		< 11.4	U	UJ	--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 2.33	U		--			--			--			< 2.33	U		< 11.7	U	UJ	--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		--			--			--			< 0.0581	U		< 0.291	U	UJ	--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U		--			--			--			< 0.474	U		< 2.37	U	UJ	--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 0.443	U		--			--			--			< 0.443	U		< 2.21	U	UJ	--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		--			--			--			< 0.453	U		< 2.27	U	UJ	--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 0.421	U		--			--			--			< 0.421	U		< 2.11	U	UJ	--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 0.449	U		--			--			--			< 0.449	U		< 2.25	U	UJ	--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		--			--			--			< 5.13	U		< 25.6	U	UJ	--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		--			--			--			< 0.0698	U	UJ	< 0.349	U	UJ	--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		--			--			--			< 0.29	U		< 1.45	U		--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		--			--			--			< 0.0633	U		< 0.316	U		--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		--			--			--			< 0.836	U		< 4.18	U	UJ	--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		--			--			--			< 0.0023	U		< 0.0113	U	UJ	--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0020	U		--			--			--			< 0.0020	U	UJ	< 0.0101	U	UJ	--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0022	U		--			--			--			< 0.0022	U	UJ	< 0.0108	U	UJ	--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		--			--			--			< 0.512	U		< 2.56	U		--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		--			--			--			< 0.469	U		< 2.35	U		--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		--			--			--			< 0.444	U		< 2.22	U		--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		--			--			--			< 12.4	U		< 61.8	U		--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		--			--			--			< 12	U		< 60.1	U		--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0020	U		--			--			--			< 0.0020	U		< 0.0101	U		--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	< 0.44	U		--			--			--			< 0.44	U		< 2.2	U		--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	< 0.627	U		--			--			--			< 0.627	U		< 3.14	U		--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 2.31	U		--			--			--			< 2.31	U		< 11.5	U		--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0024	U		--			--			--			< 0.0024	U		< 0.0118	U		--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	< 0.489	U		--			--			--			< 0.489	U		< 2.44	U		--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		--			--			--			< 10.3	U		< 51.7	U		--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	< 0.551	U		--			--			--			< 0.551	U		< 2.75	U		--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	< 0.0963	U		--			--			--			< 0.0963	U		< 0.482	U		--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		--			--			--			< 23.8	U		< 119	U		--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		--			--			--			< 0.477	U		< 2.39	U		--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		--			--			--			< 0.997	U		< 4.98	U		--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 0.0980	U		--			--			--			< 0.0980	U		< 0.49	U	UJ	--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		--			--			--			< 0.0022	U		< 0.0109	U		--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		--			--			--			< 0.0023	U		< 0.0117	U		--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	< 4.57	U		--			--			--			< 4.57	U		< 22.9	U		--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		--			--			--			< 9.71	U		< 48.5	U		--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		--			--			--			< 24.7	U		< 124	U		--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		--			--			--			< 0.0018	U		< 0.0092	U		--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		--			--			--			< 0.0021	U		< 0.0106	U		--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0689	U		--			--			--			< 0.0689	U		< 0.345	U		--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		--			--			--			< 4.56	U		< 22.8	U		--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		--			--			--			< 1.07	U		< 5.33	U	UJ	--			--		

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Table 3
Pre-SEE Soil Analytical Results

				Di-n-butylphthalate			Di-n-octylphthalate			Ethyl methacrylate			Ethylbenzene			Fluoranthene			Fluorene			Freon 11 (Trichlorofluoromethane)			Hexachlorobenzene		
Screening Criteria (mg/kg)				2300			1600						13			3100			560						0.4		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.33	U		< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0066	JB	U	< 0.0066	U		< 0.0053	U		< 0.33	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.39	U		< 0.39	U		< 13	U		< 13	U		< 0.0077	JB	U	< 0.0077	U		< 13	U		< 0.39	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.4	U		< 0.4	U		< 3.6	U		< 3.6	U		< 0.0080	JB	U	< 0.0080	U		< 3.6	U*+		< 0.4	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.39	U		< 0.39	U	UJ	< 0.0046	U		< 0.0046	U		< 0.0078	JB	U	< 0.0078	U		< 0.0046	U		< 0.39	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.35	U		< 0.35	U		< 0.0054	U		< 0.0054	U		< 0.0069	JB	U	< 0.0069	U		< 0.0054	U		< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U		< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	0.021	B		0.016			< 0.38	U	UJ	< 0.38	U	
SB-102	SB102-52-120622	52	12/6/2022	< 0.41	U		< 0.41	U	UJ	< 0.55	U	UJ	2.2		J	< 0.0080	JB	U	0.0091			< 0.55	U	UJ	< 0.41	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.41	U		< 0.41	U		< 0.37	U	UJ	2.4		J	< 0.0081	JB	U	0.0082			< 0.37	U	UJ	< 0.41	U	
SB-102	SB102-55-120622	55	12/6/2022	< 0.38	U		< 0.38	U		< 12	U	UJ	11	J	J	0.012	B		0.032			< 12	U	UJ	< 0.38	U	
SB-102	SB102-72-120622	72	12/6/2022	< 0.34	U		< 0.34	U		< 0.0043	U	UJ	0.12		J	< 0.0069	JB	U	< 0.0069	U		< 0.0043	U	UJ	< 0.34	U	
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.33	U		< 0.33	U		< 0.0054	U		< 0.0054	U		0.031	B		0.0013	J		< 0.0054	U		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.37	U		< 0.37	U		< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0074	U		< 0.0074	U		< 0.0062	U	UJ	< 0.37	U	
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.34	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	0.0023	J		< 0.0068	U		< 0.0051	U	UJ	< 0.34	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.34	U		< 0.34	U		< 0.0057	U		< 0.0057	U		< 0.0075	B	U	< 0.0067	U		< 0.0057	U		< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.34	U		< 0.34	U		< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	JB	U	< 0.0069	U		< 0.0069	U*+	UJ	< 0.34	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.34	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0067	U		< 0.0067	U		< 0.0051	U*+	UJ	< 0.34	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	0.046	J		< 0.41	U		< 0.0060	U		< 0.0060	U		0.0036	J		< 0.0083	U		< 0.0060	U		< 0.41	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.32	U		< 0.32	U		< 0.0052	U		< 0.0052	U		0.0017	J		< 0.0065	U		< 0.0052	U		< 0.32	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.36	U		< 0.36	U		< 0.0055	U		< 0.0055	U		0.0021	J		< 0.0072	U		< 0.0055	U		< 0.36	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.44	U		< 0.44	U		< 0.0053	U		< 0.0053	U		< 0.0088	U		< 0.0088	U		< 0.0053	U		< 0.44	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.33	U		< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0065	U		< 0.0065	U		< 0.0053	U		< 0.33	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.34	U		< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.0067	U		< 0.0067	U		< 0.0058	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.34	U		< 0.34	U		< 0.0054	U		< 0.0054	U		0.0023	J		< 0.0067	U		< 0.0054	U		< 0.34	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.35	U		< 0.35	U		< 0.0053	U		< 0.0053	U		0.0040	J		< 0.0069	U		< 0.0053	U		< 0.35	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.33	U		< 0.33	U		< 0.01	U		< 0.01	U		< 0.0066	U		< 0.0066	U		< 0.01	U		< 0.33	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.34	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0068	U		< 0.0068	U		< 0.0053	U		< 0.34	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.34	U		< 0.34	U		< 0.0054	U		< 0.0054	U		0.0026	J		< 0.0069	U		< 0.0054	U		< 0.34	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.33	U		< 0.33	U		< 0.0081	U		< 0.0081	U		< 0.0067	U		< 0.0067	U		< 0.0081	U		< 0.33	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.36	U		< 0.36	U		< 0.0072	U		< 0.0072	U		0.0019	J		< 0.0071	U		< 0.0072	U		< 0.36	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.36	U		< 0.36	U		< 0.0068	U		< 0.0068	U		0.0039	J		< 0.0071	U		< 0.0068	U		< 0.36	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.41	U		< 0.41	U		< 0.0053	U		< 0.0053	U		0.011			< 0.0083	U		< 0.0053	U		< 0.41	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.34	U		< 0.34	U		< 0.0036	U		< 0.0036	U		0.0030	J		< 0.0068	U		< 0.0036	U		< 0.34	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.34	U		< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.0067	U		< 0.0067	U		< 0.0058	U		< 0.34	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.34	U		< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.0067	JB	U	< 0.0067	U		< 0.0056	U		< 0.34	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.34	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0067	JB	U	< 0.0067	U		< 0.0053	U		< 0.34	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.35	U		< 0.35	U		< 0.0062	U		< 0.0062	U		< 0.0070	U		< 0.0070	U		< 0.0062	U		< 0.35	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.34	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0069	U		< 0.0069	U		< 0.0053	U		< 0.34	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.35	U		< 0.35	U		< 0.0061	U		< 0.0061	U		< 0.0069	U		< 0.0069	U		< 0.0061	U		< 0.35	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.37	U		< 0.37	U		< 0.0059	U		< 0.0059	U		< 0.0074	U		< 0.0074	U		< 0.0059	U		< 0.37	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.35	U		< 0.35	U		< 0.0056	U		< 0.0056	U		< 0.0070	JB	U	< 0.0070	U		< 0.0056	U		< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.33	U		< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.0066	U		< 0.0066	U		< 0.0056	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.33	U		< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0067	U		< 0.0067	U		< 0.0053	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.36	U		< 0.36	U		< 0.0098	U		< 0.0098	U		< 0.0072	U		< 0.0072	U		< 0.0098	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.33	U		< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.0067	U		< 0.0067	U		< 0.0056	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.33	U		< 0.33	U		< 0.0049	U		< 0.0049	U		< 0.0067	JB	U	< 0.0067	U		< 0.0049	U		< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.34	U		< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0068	U		< 0.0068	U		< 0.0053	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.34	U		< 0.34	U		< 0.0062	U		< 0.0062	U		< 0.0069	U		< 0.0069	U		< 0.0062	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.35	U		< 0.35	U		< 0.0055	U		< 0.0055	U		< 0.0071	JB	U	< 0.0071	U		< 0.0055	U		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.33	U		< 0.33	U		< 0.0051	U		< 0.0051	U		< 0.0065	U		< 0.0065	U		< 0.0051	U		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.34	U		< 0.34	U		< 0.0052	U		< 0.0052	U		< 0.0068	U		< 0.0068	U		< 0.0052	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.0054	U		< 0.0054	U		< 0.0067	JB	U	< 0.0067	U		< 0.0054	U		< 0.34	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.0051	U		< 0.0051	U		< 0.0068	U		< 0.0068	U		< 0.0051	U		< 0.34	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.0056	U		< 0.0056	U		< 0.0069	JB	U	< 0.0069	U		< 0.0056	U		< 0.34	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.34	U		< 0.34	U	UJ	< 0.0056	U		< 0.0056	U		< 0.0068	JB	U	< 0.0068	U		< 0.0056	U		< 0.34	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.35	U		< 0.35	U		< 0.0074	U	UJ	< 0.0074	U	UJ	0.0034	J		< 0.0070	U		< 0.0074	U	UJ	< 0.35	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.34	U		< 0.34	U		< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0067	U		< 0.0067	U		< 0.0085	U	UJ	< 0.34	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.34	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0068	U		< 0.0068	U		< 0.0051	U	UJ	< 0.34	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Di-n-butylphthalate			Di-n-octylphthalate			Ethyl methacrylate			Ethylbenzene			Fluoranthene			Fluorene			Freon 11 (Trichlorofluoromethane)			Hexachlorobenzene		
Screening Criteria (mg/kg)				2300			1600						13			3100			560						0.4		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			--			< 0.0577	U		< 0.0577	U		--			--			< 0.144	U		--		
SB-103	SB103-43-051723	43	5/17/2023	--			--			< 0.0487	U		< 0.0487	U		--			--			< 0.122	U		--		
SB-103	SB103-58-051723	58	5/17/2023	--			--			< 0.0020	U		< 0.0020	U		--			--			< 0.0051	U		--		
SB-103	SB103-68-051323	68	5/17/2023	--			--			< 0.534	U		< 0.534	U		--			--			< 1.34	U		--		
SB-103	SB103-77-052423	77	5/24/2023	--			--			< 0.0019	U		0.0020			--			--			< 0.0047	U		--		
SB-104	SB104-42-062023	42	6/20/2023	--			--			< 0.268	U		1.85			--			--			< 0.671	U		--		
SB-104	SB104-57-062023	57	6/20/2023	--			--			< 2.31	U		< 2.31	U		--			--			< 5.78	U		--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			--			< 2.12	U		< 2.12	U		--			--			< 5.31	U		--		
SB-104	SB104-65-062023	65	6/20/2023	--			--			< 0.0601	U		< 0.0601	U		--			--			< 0.15	U		--		
SB-104	SB104-78-062023	78	6/20/2023	--			--			< 0.0608	U	UJ	< 0.0608	U	UJ	--			--			< 0.152	U	UJ	--		
SB-105	SB105-40-062023	40	6/20/2023	--			--			< 0.46	U		< 0.46	U		--			--			< 1.15	U		--		
SB-105	SB105-55-062023	55	6/20/2023	--			--			< 0.0607	U		< 0.0607	U		--			--			< 0.152	U	UJ	--		
SB-105	SB105-67-062023	67	6/20/2023	--			--			< 0.0518	U	UJ	< 0.0518	U	UJ	--			--			< 0.13	U	UJ	--		
SB-105	SB105-73-062023	73	6/20/2023	--			--			< 0.0019	U		< 0.0019	U		--			--			< 0.0048	U		--		
SB-106	SB106-39-061923	39	6/19/2023	--			--			< 0.0581	U		< 0.0581	U		--			--			< 0.145	U		--		
SB-106	SB106-45-061923	45	6/19/2023	--			--			< 0.0616	U	UJ	< 0.0616	U	UJ	--			--			< 0.154	U	UJ	--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			--			< 0.0620	U		< 0.0620	U		--			--			< 0.155	U		--		
SB-106	SB106-58-061923	58	6/19/2023	--			--			< 0.692	U		< 0.692	U		--			--			< 1.73	U	UJ	--		
SB-106	SB106-68-061923	68	6/19/2023	--			--			< 0.0019	U		< 0.0019	U		--			--			< 0.0047	U		--		
SB-106	SB106-77-061923	77	6/19/2023	--			--			< 0.0523	U		< 0.0523	U		--			--			< 0.131	U		--		
SB-107	SB107-15-061723	15	6/17/2023	--			--			< 0.446	U		< 0.446	U		--			--			< 1.12	U		--		
SB-107	SB107-39-061723	39	6/17/2023	--			--			< 0.379	U		< 0.379	U		--			--			< 0.948	U		--		
SB-107	SB107-58-061723	58	6/17/2023	--			--			< 0.125	U		< 0.125	U		--			--			< 0.313	U		--		
SB-107	SB107-67-061723	67	6/17/2023	--			--			< 0.452	U	UJ	< 0.452	U	UJ	--			--			< 1.13	U	UJ	--		
SB-107	SB107-78-061723	78	6/17/2023	--			--			< 0.0481	U		< 0.0481	U		--			--			< 0.12	U		--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			--			< 0.0024	U		0.0033			--			--			< 0.0059	U		--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			--			< 0.498	U		0.953			--			--			< 1.24	U		--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			--			< 2.32	U		< 2.32	U		--			--			< 5.81	U		--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			--			< 0.0029	U		0.0118			--			--			< 0.0072	U		--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			--			< 0.893	U		2.15			--			--			< 2.23	U		--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			--			< 0.42	U		< 0.42	U		--			--			< 1.05	U		--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			--			< 0.535	U		3			--			--			< 1.34	U	UJ	--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			--			< 0.0597	U		4.16			--			--			< 0.149	U	UJ	--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			--			< 0.0021	U		0.183			--			--			< 0.0053	U	UJ	--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			--			< 0.122	U		< 0.122	U		--			--			< 0.304	U		--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			--			< 4.54	U		22.9			--			--			< 11.3	U		--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			--			< 1.12	U		13.6			--			--			< 2.81	U		--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			--			< 0.482	U		0.15	J		--			--			< 1.21	U		--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			--			< 0.449	U		0.18	J		--			--			< 1.12	U		--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			--			< 3.59	U		< 3.59	U		--			--			< 8.97	U		--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			--			< 0.139	U		< 0.139	U		--			--			< 0.347	U		--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			--			< 0.0920	U		0.092	J		--			--			< 0.23	U		--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			--			< 20.3	U		97.9			--			--			< 50.7	U		--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			--			< 0.0658	U		< 0.0658	U		--			--			< 0.165	U		--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			--			< 0.0570	U		0.127			--			--			< 0.142	U		--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			--			< 0.216	U		5.24			--			--			< 0.539	U		--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			--			< 0.0539	U		0.115			--			--			< 0.135	U		--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			--			< 1.05	U		139			--			--			< 2.62	U		--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			--			< 0.0510	U		< 0.0510	U		--			--			< 0.128	U		--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			--			< 0.0516	U		0.175			--			--			< 0.129	U		--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			--			< 1.89	U		3.98			--			--			< 4.71	U		--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			--			< 0.0575	U		< 23	U		--			--			< 0.144	U		--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			--			< 0.126	U		< 0.126	U		--			--			< 0.316	U		--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			--			< 0.0501	U		1.8			--			--			< 0.125	U		--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			--			< 0.0579	U		8.32			--			--			< 0.145	U		--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			--			< 0.0460	U		0.274			--			--			< 0.115	U		--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			--			< 0.447	U		178			--			--			< 1.12	U		--		

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Table 3
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				Di-n-butylphthalate			Di-n-octylphthalate			Ethyl methacrylate			Ethylbenzene			Fluoranthene			Fluorene			Freon 11 (Trichlorofluoromethane)			Hexachlorobenzene		
Screening Criteria (mg/kg)				2300			1600						13			3100			560						0.4		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			--			< 0.0022	U		0.0055			--			--			< 0.0056	U		--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			--			< 0.442	U		< 0.442	U		--			--			< 1.1	U		--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			--			< 0.444	U		0.75			--			--			< 1.11	U		--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			--			< 0.0024	U		0.0662			--			--			< 0.0060	U		--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			--			< 0.377	U		1.83			--			--			< 0.942	U		--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			--			< 21.7	U		39.5			--			--			< 54.2	U		--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			--			< 12.3	U		< 12.3	U		--			--			< 30.7	U		--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			--			< 1.41	U		< 1.41	U		--			--			< 3.52	U		--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			--			< 0.218	U		0.375			--			--			< 0.545	U		--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			--			< 0.0768	U	UJ	< 0.0768	U	UJ	--			--			< 0.192	U	UJ	--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			--			< 0.0519	U		< 0.0519	U		--			--			< 0.13	U		--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			--			< 0.423	U		< 0.423	U		--			--			< 1.06	U		--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			--			< 0.481	U		< 0.481	U		--			--			< 1.2	U		--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			--			< 0.88	U		< 0.88	U		--			--			< 2.2	U		--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			--			< 2.29	U		15.3			--			--			< 5.72	U		--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			--			< 2.33	U		16.4			--			--			< 5.83	U		--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			--			< 0.0581	U		0.0724			--			--			< 0.145	U		--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			--			< 0.474	U		< 0.474	U		--			--			< 1.18	U		--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			--			< 0.443	U		< 0.443	U		--			--			< 1.11	U		--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			--			< 0.453	U		< 0.453	U		--			--			< 1.13	U		--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			--			< 0.421	U		0.913			--			--			< 1.05	U		--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			--			< 0.449	U		0.826			--			--			< 1.12	U		--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			--			< 5.13	U		< 5.13	U		--			--			< 12.8	U		--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			--			< 0.0698	U		< 0.0698	U		--			--			< 0.174	U	UJ	--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			--			< 0.29	U		< 0.29	U		--			--			< 0.725	U		--		
T-AB2	TAB2-48-061523	48	6/15/2023	--			--			< 0.0633	U		< 0.0633	U		--			--			< 0.158	U		--		
T-AB2	TAB2-59-061523	59	6/15/2023	--			--			< 0.836	U		2.1			--			--			< 2.09	U		--		
T-BG2	TBG2-48-071123	48	7/11/2023	--			--			< 0.0023	U		< 0.0023	U		--			--			< 0.0057	U		--		
T-BG2	TBG2-59-071123	59	7/11/2023	--			--			< 0.0020	U		0.0146			--			--			< 0.0051	U	UJ	--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			--			< 0.0022	U		0.0133			--			--			< 0.0054	U	UJ	--		
X-AD2	XAD2-49-052323	49	5/23/2023	--			--			< 0.512	U		< 0.512	U		--			--			< 1.28	U		--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			--			< 0.469	U		< 0.469	U		--			--			< 1.17	U		--		
X-AD2	XAD2-58-052323	58	5/23/2023	--			--			< 0.444	U		< 0.444	U		--			--			< 1.11	U		--		
X-AE4	XAE4-40-030223	40	3/2/2023	--			--			< 12.4	U		3.8	J		--			--			< 30.9	U		--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			--			< 12	U		2.2	J		--			--			< 30	U		--		
X-AE4	XAE4-48-030223	48	3/2/2023	--			--			< 0.0020	U		0.0214			--			--			< 0.0051	U		--		
X-AE4	XAE4-52-030223	52	3/2/2023	--			--			< 0.44	U		7.08			--			--			< 1.1	U		--		
X-AF6	XAF6-40-022723	40	2/27/2023	--			--			< 0.627	U		22.6		J	--			--			< 1.57	U		--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			--			< 2.31	U		10.8		J	--			--			< 5.77	U		--		
X-AF6	XAF6-47-022723	47	2/27/2023	--			--			< 0.0024	U		0.0547			--			--			< 0.0059	U		--		
X-AF6	XAF6-58-022723	58	2/27/2023	--			--			< 0.489	U		3.33			--			--			< 1.22	U		--		
X-AG5	XAG5-40-031823	40	3/18/2023	--			--			< 10.3	U		< 10.3	U		--			--			< 25.9	U		--		
X-AG5	XAG5-49-031823	49	3/18/2023	--			--			< 0.551	U		2.4			--			--			< 1.38	U		--		
X-AG5	XAG5-56-031823	56	3/18/2023	--			--			< 0.0963	U		0.17			--			--			< 0.241	U		--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			--			< 23.8	U		16	J		--			--			< 59.5	U		--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			--			< 0.477	U		0.621			--			--			< 1.19	U		--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			--			< 0.997	U		1.78			--			--			< 2.49	U		--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			--			< 0.0980	U		3.33			--			--			< 0.245	U		--		
X-BB2	XBB2-4-030123	4	3/1/2023	--			--			< 0.0022	U		0.0025			--			--			< 0.0054	U		--		
X-BB2	XBB2-9-030123	9	3/1/2023	--			--			< 0.0023	U		0.0016	J		--			--			< 0.0059	U		--		
X-BB2	XBB2-38-051823	38	5/18/2023	--			--			< 4.57	U		17.9			--			--			< 11.4	U		--		
X-BB2	XBB2-47-051823	47	5/18/2023	--			--			< 9.71	U		< 9.71	U		--			--			< 24.3	U		--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			--			< 24.7	U		< 24.7	U		--			--			< 61.8	U		--		
X-BC3	XBC3-4-022423	4	2/24/2023	--			--			< 0.0018	U		< 0.0018	U		--			--			< 0.0046	U		--		
X-BC3	XBC3-9-022423	9	2/24/2023	--			--			< 0.0021	U		< 0.0021	U		--			--			< 0.0053	U		--		
X-BC3	XBC3-38-062123	38	6/21/2023	--			--			< 0.0689	U		0.622			--			--			< 0.172	U		--		
X-BC3	XBC3-47-062123	47	6/21/2023	--			--			< 4.56	U		< 4.56	U		--			--			< 11.4	U		--		
X-BC3	XBC3-58-062123	58	6/21/2023	--			--			< 1.07	U		< 1.07	U		--			--			< 2.66	U		--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indene			Indeno(1,2,3,c,d)pyrene			Isophorone			Isopropylbenzene (Cumene)			m,p-Xylene		
Screening Criteria (mg/kg)							10			0.5						0.9			8						150		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U*+		< 0.33	UF1	UJ	< 0.33	U		< 0.33	U		< 0.0066	U		< 0.33	UF1	UJ	< 0.0053	U		< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	< 13	U*+		< 0.39	U	UJ	< 0.39	U		< 0.39	U		< 0.0077	U		< 0.39	U		< 13	U		< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 0.4	U	UJ	< 0.4	U		< 0.4	U		< 0.0080	U		< 0.4	U		< 3.6	U		< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.39	U	UJ	< 0.39	U		< 0.39	U		< 0.0078	U		< 0.39	U	UJ	< 0.0046	U		0.0016	J	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U*+		< 0.35	U	UJ	< 0.35	U		< 0.35	U		< 0.0069	U		< 0.35	U		< 0.0054	U		< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U*+	UJ	< 0.38	U		< 0.38	U		< 0.38	U		< 0.0076	U		< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.55	U	UJ	< 0.41	U		< 0.41	U		< 0.41	U		< 0.0080	U		< 0.41	U		0.077	J	J	4.3		J
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.37	U*+	UJ	< 0.41	U		< 0.41	U		< 0.41	U		< 0.0081	U		< 0.41	U		0.12	J	J	4.8		J
SB-102	SB102-55-120622	55	12/6/2022	< 12	U*+	UJ	< 0.38	U		< 0.38	U		< 0.38	U		< 0.0076	U		< 0.38	U		< 12	U	UJ	20		J
SB-102	SB102-72-120622	72	12/6/2022	< 0.0043	U*+	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.34	U		0.0091		J	0.23		J
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U*+		< 0.33	U	UJ	< 0.33	U		< 0.33	U		0.042			< 0.33	U		< 0.0054	U		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.37	UF1*1	UJ	< 0.37	U		< 0.37	U		< 0.0074	U		< 0.37	UF1	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.34	U*1	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U*+		< 0.34	U	UJ	< 0.34	U		< 0.34	U		0.0024	J		< 0.34	U		< 0.0057	U		< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0069	U	UJ	< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.41	U*1	UJ	< 0.41	U		< 0.41	U		< 0.0083	U		< 0.41	U	UJ	< 0.0060	U		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.32	U*1	UJ	< 0.32	U		< 0.32	U		< 0.0065	U		< 0.32	U	UJ	< 0.0052	U		0.0015	J	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.36	U*1	UJ	< 0.36	U		< 0.36	U		< 0.0072	U		< 0.36	U	UJ	< 0.0055	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.44	U*1	UJ	< 0.44	U		< 0.44	U		< 0.0088	U		< 0.44	U	UJ	< 0.0053	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.33	U*1	UJ	< 0.33	U		< 0.33	U		< 0.0065	U		< 0.33	U	UJ	< 0.0053	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.34	U*1		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0058	U		0.0021	J	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U	UJ	< 0.0054	U		< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.35	U	UJ	< 0.35	U		< 0.35	U		< 0.0069	U		< 0.35	U	UJ	< 0.0053	U		< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.33	U	UJ	< 0.33	U		< 0.33	U		< 0.0066	U		< 0.33	U	UJ	< 0.01	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.34	U*1	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U	UJ	< 0.0053	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.34	U*1	UJ	< 0.34	U		< 0.34	U		< 0.0069	U		< 0.34	U	UJ	< 0.0054	U		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.33	U*1	UJ	< 0.33	U		< 0.33	U		< 0.0067	U		< 0.33	U	UJ	< 0.0081	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.36	U*1	UJ	< 0.36	U		< 0.36	U		< 0.0071	U		< 0.36	U	UJ	< 0.0072	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.36	U*1	UJ	< 0.36	U		< 0.36	U		< 0.0071	U		< 0.36	U	UJ	< 0.0068	U		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.41	U*1	UJ	< 0.41	U		< 0.41	U		< 0.0083	U		< 0.41	U	UJ	< 0.0053	U		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.34	U*1	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U	UJ	< 0.0036	U		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0058	U		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0056	U		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0053	U		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.0070	U		< 0.35	U		< 0.0062	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0053	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.0069	U		< 0.35	U		< 0.0061	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.37	U		< 0.37	U		< 0.37	U		< 0.0074	U		< 0.37	U		< 0.0059	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.0070	U		< 0.35	U		< 0.0056	U		< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.0066	U		< 0.33	U		< 0.0056	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.0053	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.36	U		< 0.36	U		< 0.36	U		< 0.0072	U		< 0.36	U		< 0.0098	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.0056	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.0067	U		< 0.33	U		< 0.0049	U		< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0053	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0069	U		< 0.34	U		< 0.0062	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.0071	U		< 0.35	U		< 0.0055	U		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.0065	U		< 0.33	U		< 0.0051	U		< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0052	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U*+		< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U	UJ	< 0.0054	U		< 0.0054	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U*+		< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U	UJ	< 0.0051	U		< 0.0051	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U*+		< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0069	U		< 0.34	U	UJ	< 0.0056	U		< 0.0056	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U*+		< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U	UJ	< 0.0056	U		< 0.0056	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.35	U		< 0.35	U		< 0.35	U		< 0.0070	U		< 0.35	U		< 0.0074	U	UJ	< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.0067	U		< 0.34	U		< 0.0085	U	UJ	< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.0068	U		< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indene			Indeno(1,2,3,c,d)pyrene			Isophorone			Isopropylbenzene (Cumene)			m,p-Xylene		
Screening Criteria (mg/kg)							10			0.5						0.9			8						150		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		--			--			--			--			--			< 0.0577	U		< 0.115	U	
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		--			--			--			--			--			< 0.0487	U		< 0.0974	U	
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		--			--			--			--			--			< 0.0020	U		< 0.0041	U	
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		--			--			--			--			--			< 0.534	U		< 1.07	U	
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		--			--			--			--			--			< 0.0019	U		< 0.0038	U	
SB-104	SB104-42-062023	42	6/20/2023	< 0.268	U		--			--			--			--			--			0.661			4.64		
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		--			--			--			--			--			< 2.31	U		< 4.63	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		--			--			--			--			--			< 2.12	U		< 4.25	U	
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		--			--			--			--			--			< 0.0601	U		0.26		
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	--			--			--			--			--			< 0.0608	U	UJ	< 0.122	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		--			--			--			--			--			2.65			< 0.92	U	
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		--			--			--			--			--			0.203			< 0.121	U	
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	--			--			--			--			--			< 0.0518	U	UJ	< 0.104	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		--			--			--			--			--			< 0.0019	U		< 0.0038	U	
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		--			--			--			--			--			< 0.0581	U		< 0.116	U	
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	--			--			--			--			--			< 0.0616	U	UJ	< 0.123	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		--			--			--			--			--			< 0.0620	U		< 0.124	U	
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		--			--			--			--			--			1.5			1.45		
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		--			--			--			--			--			< 0.0019	U		< 0.0037	U	
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		--			--			--			--			--			< 0.0523	U		< 0.105	U	
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		--			--			--			--			--			< 0.446	U		< 0.893	U	
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		--			--			--			--			--			1.17			< 0.759	U	
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		--			--			--			--			--			< 0.125	U		< 0.251	U	
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	--			--			--			--			--			< 0.452	U	UJ	< 0.904	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		--			--			--			--			--			< 0.0481	U		< 0.0962	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		--			--			--			--			--			< 0.0024	U		< 0.0047	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		--			--			--			--			--			< 0.498	U		1.44		
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		--			--			--			--			--			< 2.32	U		< 4.65	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		--			--			--			--			--			< 0.0029	U		0.0215		
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		--			--			--			--			--			< 0.893	U		< 1.79	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		--			--			--			--			--			< 0.42	U		< 0.841	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		--			--			--			--			--			< 0.535	U		2.72		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 0.0597	U		--			--			--			--			--			0.357			3.36		
SI-AB0	SIAB0-56-061323	56	6/13/2023	< 0.0021	U		--			--			--			--			--			0.0085			0.319		
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		--			--			--			--			--			< 0.122	U		< 0.243	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 4.54	U		--			--			--			--			--			2.3	J		32.8		
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 1.12	U		--			--			--			--			--			1.2			35.8		
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		--			--			--			--			--			< 0.482	U		< 0.965	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		--			--			--			--			--			< 0.449	U		0.36	J	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		--			--			--			--			--			< 3.59	U		< 7.18	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		--			--			--			--			--			< 0.139	U		< 0.278	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		--			--			--			--			--			< 0.0920	U		0.12	J	
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 20.3	U		--			--			--			--			--			6.8	J		270		
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		--			--			--			--			--			< 0.0658	U		< 0.132	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		--			--			--			--			--			< 0.0570	U		0.264		
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 0.216	U		--			--			--			--			--			0.442			14.8		
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 0.0539	U		--			--			--			--			--			< 0.0539	U		0.172		
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 1.05	U		--			--			--			--			--			13.2			364		
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		--			--			--			--			--			< 0.0510	U		< 0.102	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 0.0516	U		--			--			--			--			--			0.14			0.244		
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 1.89	U		--			--			--			--			--			3.02			8.36		
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 0.0575	U		--			--			--			--			--			1.25			< 46	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		--			--			--			--			--			< 0.126	U		< 0.253	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 0.0501	U		--			--			--			--			--			0.541			1.76		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 0.0579	U		--			--			--			--			--			0.553			22.3		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		--			--			--			--			--			0.02	J		0.418		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 0.447	U		--			--			--			--			--			14.2			455		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Hexachlorobutadiene			Hexachlorocyclopentadiene			Hexachloroethane			Indene			Indeno(1,2,3,c,d)pyrene			Isophorone			Isopropylbenzene (Cumene)			m,p-Xylene		
Screening Criteria (mg/kg)							10			0.5						0.9			8						150		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		--			--			--			--			--			< 0.0022	U		< 0.0044	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		--			--			--			--			--			< 0.442	U		< 0.883	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 0.444	U		--			--			--			--			--			0.661		J	1.45		
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0024	U		--			--			--			--			--			0.0081			0.145		
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 0.377	U		--			--			--			--			--			0.18	J		14.8		
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 21.7	U		--			--			--			--			--			9.2	J		101		
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		--			--			--			--			--			< 12.3	U		< 24.6	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 1.41	U		--			--			--			--			--			2.4			< 2.82	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 0.218	U		--			--			--			--			--			0.891			< 0.436	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	--			--			--			--			--			< 0.0768	U	UJ	< 0.154	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		--			--			--			--			--			< 0.0519	U		< 0.104	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		--			--			--			--			--			0.36	J		< 0.846	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		--			--			--			--			--			< 0.481	U		< 0.963	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		--			--			--			--			--			< 0.88	U		< 1.76	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 2.29	U		--			--			--			--			--			< 2.29	U		65.6		
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 2.33	U		--			--			--			--			--			4.62			13.7		
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		--			--			--			--			--			< 0.0581	U		0.122		
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U		--			--			--			--			--			< 0.474	U		< 0.948	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 0.443	U		--			--			--			--			--			0.591			< 0.885	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		--			--			--			--			--			< 0.453	U		< 0.907	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 0.421	U		--			--			--			--			--			< 0.421	U		1.74		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 0.449	U		--			--			--			--			--			< 0.449	U		1.64		
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		--			--			--			--			--			< 5.13	U		< 10.3	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		--			--			--			--			--			< 0.0698	U		< 0.14	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		--			--			--			--			--			< 0.29	U		< 0.58	U	
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		--			--			--			--			--			< 0.0633	U		< 0.127	U	
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		--			--			--			--			--			< 0.836	U		5		
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		--			--			--			--			--			< 0.0023	U		< 0.0045	U	
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0020	U		--			--			--			--			--			< 0.0020	U		0.0342		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0022	U		--			--			--			--			--			< 0.0022	U		0.0311		
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		--			--			--			--			--			< 0.512	U		< 1.02	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		--			--			--			--			--			< 0.469	U		< 0.939	U	
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		--			--			--			--			--			< 0.444	U		< 0.887	U	
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		--			--			--			--			--			< 12.4	U		10	J	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		--			--			--			--			--			< 12	U		< 24	U	
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0020	U		--			--			--			--			--			0.0030		J	0.0360		
X-AE4	XAE4-52-030223	52	3/2/2023	< 0.44	U		--			--			--			--			--			0.543			16.5		
X-AF6	XAF6-40-022723	40	2/27/2023	< 0.627	U		--			--			--			--			--			1.65			50.5		J
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 2.31	U		--			--			--			--			--			0.86	J		24.6		J
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0024	U		--			--			--			--			--			0.0058			0.0712		
X-AF6	XAF6-58-022723	58	2/27/2023	< 0.489	U		--			--			--			--			--			0.29	J		9.1		
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		--			--			--			--			--			< 10.3	U		< 20.7	U	
X-AG5	XAG5-49-031823	49	3/18/2023	< 0.551	U		--			--			--			--			--			< 0.551	U		4.99		
X-AG5	XAG5-56-031823	56	3/18/2023	< 0.0963	U		--			--			--			--			--			0.063	J		0.429		
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		--			--			--			--			--			< 23.8	U		46	J	
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		--			--			--			--			--			< 0.477	U		1.07		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		--			--			--			--			--			< 0.997	U		3.02		
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 0.0980	U		--			--			--			--			--			0.228			6.29		
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		--			--			--			--			--			< 0.0022	U		< 0.0044	U	
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		--			--			--			--			--			< 0.0023	U		< 0.0047	U	
X-BB2	XBB2-38-051823	38	5/18/2023	< 4.57	U		--			--			--			--			--			6.43			20.8		
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		--			--			--			--			--			< 9.71	U		< 19.4	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		--			--			--			--			--			< 24.7	U		< 49.4	U	
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		--			--			--			--			--			< 0.0018	U		< 0.0037	U	
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		--			--			--			--			--			< 0.0021	U		< 0.0042	U	
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0689	U		--			--			--			--			--			0.15			2.7		
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		--			--			--			--			--			< 4.56	U		< 9.13	U	
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		--			--			--			--			--			< 1.07	U		< 2.13	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Methyl Tert-butyl Ether (MTBE)			Dichloromethane (Methylene chloride)			Naphthalene			n-Butylbenzene			Nitrobenzene			N-Nitrosodimethylamine			N-Nitrosodiphenylamine			N-Nitrosodipropylamine		
Screening Criteria (mg/kg)							0.02			12						0.1						1			0.00005		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U*+		< 0.33	UF1	UJ	< 0.33	U		< 0.33	U		< 0.33	U	
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 40	U		< 13	U		< 13	U*+		< 0.39	U		< 0.39	U		< 0.39	U		< 0.39	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 11	U		< 3.6	U		< 3.6	U		< 0.4	U		< 0.4	U		< 0.4	U		< 0.4	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.014	U		< 0.0046	U		< 0.0046	U		< 0.39	U	UJ	< 0.39	U		< 0.39	U	UJ	< 0.39	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.016	U		< 0.0054	U		< 0.0054	U*+		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 1.1	U	UJ	< 0.38	U	UJ	< 0.38	U*+	UJ	< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U	
SB-102	SB102-52-120622	52	12/6/2022	< 0.55	U	UJ	< 1.6	U	UJ	0.37	J	J	0.16	J	J	< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.37	U	UJ	< 1.1	U	UJ	0.62		J	0.26	J*+	J	< 0.41	U		< 0.41	U		< 0.41	U		< 0.41	U	
SB-102	SB102-55-120622	55	12/6/2022	< 12	U	UJ	< 35	U	UJ	< 12	U	UJ	< 12	U*+	UJ	< 0.38	U		< 0.38	U		< 0.38	U		< 0.38	U	
SB-102	SB102-72-120622	72	12/6/2022	< 0.0043	U	UJ	< 0.013	U	UJ	0.022		J	< 0.26	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.016	U		< 0.0054	U		< 0.0054	U*+		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.019	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.37	UF1	UJ	< 0.37	U		< 0.37	U	UJ	< 0.37	U	
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.015	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.017	U		< 0.0057	U		< 0.0057	U*+		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.021	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.015	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.018	U		< 0.0060	U		< 0.0060	U		< 0.41	U	UJ	< 0.41	U		< 0.41	U	UJ	< 0.41	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.015	U		< 0.0052	U		< 0.0052	U		< 0.32	U	UJ	< 0.32	U		< 0.32	U	UJ	< 0.32	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.016	U		< 0.0055	U		< 0.0055	U		< 0.36	U	UJ	< 0.36	U		< 0.36	U	UJ	< 0.36	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.44	U	UJ	< 0.44	U		< 0.44	U	UJ	< 0.44	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.33	U	UJ	< 0.33	U		< 0.33	U	UJ	< 0.33	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.017	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.016	U		< 0.0054	U		< 0.0054	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.35	U	UJ	< 0.35	U		< 0.35	U		< 0.35	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.03	U		< 0.01	U		< 0.01	U		< 0.33	U	UJ	< 0.33	U		< 0.33	U		< 0.33	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.016	U		< 0.0054	U		< 0.0054	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.024	U		< 0.0081	U		< 0.0081	U		< 0.33	U	UJ	< 0.33	U		< 0.33	U	UJ	< 0.33	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.021	U		< 0.0072	U		< 0.0072	U		< 0.36	U	UJ	< 0.36	U		< 0.36	U	UJ	< 0.36	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.021	U		< 0.0068	U		< 0.0068	U		< 0.36	U	UJ	< 0.36	U		< 0.36	U	UJ	< 0.36	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.41	U	UJ	< 0.41	U		< 0.41	U	UJ	< 0.41	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.011	U		< 0.0036	U		< 0.0036	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.017	U		< 0.0058	U		< 0.0058	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.017	U		< 0.0056	U		< 0.0056	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	UJ
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	UJ
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.019	U		< 0.0062	U		< 0.0062	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.018	U		< 0.0061	U		< 0.0061	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.018	U		< 0.0059	U		< 0.0059	U		< 0.37	U		< 0.37	U		< 0.37	U		< 0.37	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.017	U		< 0.0056	U		< 0.0056	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.017	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.029	U		< 0.0098	U		< 0.0098	U		< 0.36	U		< 0.36	U		< 0.36	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.017	U		< 0.0056	U		< 0.0056	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.015	U		< 0.0049	U		< 0.0049	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.016	U		< 0.0053	U		< 0.0053	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.019	U		< 0.0062	U		< 0.0062	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.016	U		< 0.0055	U		< 0.0055	U		< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.015	U		< 0.0051	U		< 0.0051	U		< 0.33	U		< 0.33	U		< 0.33	U		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.016	U		< 0.0052	U		< 0.0052	U		< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.016	U		< 0.0054	U		< 0.0054	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.015	U		< 0.0051	U		< 0.0051	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.017	U		< 0.0056	U		< 0.0056	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.017	U		< 0.0056	U		< 0.0056	U		< 0.34	U	UJ	< 0.34	U		< 0.34	U	UJ	< 0.34	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.022	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.35	U		< 0.35	U		< 0.35	U		< 0.35	U	
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.026	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.015	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.34	U		< 0.34	U		< 0.34	U		< 0.34	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Methyl Tert-butyl Ether (MTBE)			Dichloromethane (Methylene chloride)			Naphthalene			n-Butylbenzene			Nitrobenzene			N-Nitrosodimethylamine			N-Nitrosodiphenylamine			N-Nitrosodipropylamine		
Screening Criteria (mg/kg)							0.02			12						0.1						1			0.00005		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		< 0.288	U		< 0.144	U		< 0.0577	U		--			--			--			--		
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		< 0.244	U		< 0.122	U		< 0.0487	U		--			--			--			--		
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		< 0.0102	U		< 0.0051	U		< 0.0020	U		--			--			--			--		
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		< 2.67	U		< 1.34	U		< 0.534	U		--			--			--			--		
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		< 0.0094	U		< 0.0047	U		< 0.0019	U		--			--			--			--		
SB-104	SB104-42-062023	42	6/20/2023	< 0.268	U		1.45			< 0.671	U		< 0.268	U		--			--			--			--		
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		< 11.6	U		< 5.78	U		< 2.31	U		--			--			--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		< 10.6	U		< 5.31	U		< 2.12	U		--			--			--			--		
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		< 0.3	U		< 0.15	U		< 0.0601	U		--			--			--			--		
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	< 0.304	U	UJ	< 0.152	U	UJ	< 0.0608	U	UJ	--			--			--			--		
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		< 2.3	U		< 1.15	U		1.83			--			--			--			--		
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		< 0.304	U		< 0.152	U		< 0.0607	U		--			--			--			--		
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	< 0.259	U	UJ	< 0.13	U	UJ	< 0.0518	U	UJ	--			--			--			--		
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		< 0.0095	U		< 0.0048	U		< 0.0019	U		--			--			--			--		
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		0.399			< 0.145	U		< 0.0581	U		--			--			--			--		
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	< 0.308	U	UJ	< 0.154	U	UJ	< 0.0616	U	UJ	--			--			--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		< 0.31	U		< 0.155	U		< 0.0620	U		--			--			--			--		
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		< 3.46	U		< 1.73	U		< 0.692	U		--			--			--			--		
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		< 0.0093	U		< 0.0047	U		< 0.0019	U		--			--			--			--		
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		< 0.261	U		< 0.131	U		< 0.0523	U		--			--			--			--		
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		< 2.23	U		< 1.12	U		0.69			--			--			--			--		
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		< 1.9	U		< 0.948	U		0.85			--			--			--			--		
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		0.65			< 0.313	U		< 0.125	U		--			--			--			--		
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	< 2.26	U	UJ	< 1.13	U	UJ	< 0.452	U	UJ	--			--			--			--		
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		0.322			< 0.12	U		< 0.0481	U		--			--			--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		< 0.0118	U		< 0.0059	U		< 0.0024	U		--			--			--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		< 2.49	U		< 1.24	U		< 0.498	U		--			--			--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		< 11.6	U		< 5.81	U		< 2.32	U		--			--			--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		< 0.0143	U		< 0.0072	U		< 0.0029	U		--			--			--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		< 4.46	U	UJ	< 2.23	U		< 0.893	U		--			--			--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		< 2.1	U	UJ	< 1.05	U		< 0.42	U		--			--			--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		< 2.67	U		< 1.34	U		< 0.535	U		--			--			--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 0.0597	U		< 0.298	U		0.709		J	0.211			--			--			--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	0.0051			< 0.0106	U		0.0555		J	0.0050			--			--			--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		< 0.609	U		< 0.304	U		< 0.122	U		--			--			--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 4.54	U		< 22.7	U	UJ	3.2	J		1.9	J		--			--			--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 1.12	U		< 5.61	U		2.85			3.59			--			--			--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		< 2.41	U	UJ	< 1.21	U		< 0.482	U		--			--			--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		< 2.24	U	UJ	< 1.12	U		< 0.449	U		--			--			--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		< 17.9	U	UJ	< 8.97	U		< 3.59	U		--			--			--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		< 0.694	U		< 0.347	U		< 0.139	U		--			--			--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		< 0.46	U		< 0.23	U		< 0.0920	U		--			--			--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 20.3	U		< 101	U		16	J		16	J		--			--			--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		< 0.329	U	UJ	< 0.165	U	UJ	< 0.0658	U		--			--			--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		< 0.285	U	UJ	< 0.142	U	UJ	< 0.0570	U		--			--			--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 0.216	U		< 1.08	U		0.947			0.401			--			--			--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 0.0539	U		< 0.269	U		0.018	J		< 0.0539	U		--			--			--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 1.05	U		< 5.24	U		27.6			15.8			--			--			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		< 0.255	U		< 0.128	U		< 0.0510	U		--			--			--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 0.0516	U		< 0.258	U		0.11	J		0.128		J	--			--			--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 1.89	U		< 9.43	U		1.1	J		9.66		J	--			--			--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 0.0575	U		< 0.287	U		3.52			1.8		J	--			--			--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		< 0.631	U		< 0.316	U		< 0.126	U		--			--			--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 0.0501	U		< 0.25	U		0.522			1.22		J	--			--			--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 0.0579	U		< 0.29	U		1.15			1.22			--			--			--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		< 0.23	U		0.185			0.018	J		--			--			--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 0.447	U		< 2.23	U		32.4			18.3			--			--			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				Methyl Tert-butyl Ether (MTBE)			Dichloromethane (Methylene chloride)			Naphthalene			n-Butylbenzene			Nitrobenzene			N-Nitrosodimethylamine			N-Nitrosodiphenylamine			N-Nitrosodipropylamine		
Screening Criteria (mg/kg)							0.02			12						0.1						1			0.00005		
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		< 0.0111	U		< 0.0056	U		< 0.0022	U		--			--			--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		< 2.21	U		< 1.1	U		< 0.442	U		--			--			--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 0.444	U		< 2.22	U		< 1.11	U		0.475		J	--			--			--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0024	U		< 0.0121	U		0.0511			< 0.0024	U		--			--			--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 0.377	U		< 1.88	U		0.5	J		< 0.377	U		--			--			--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 21.7	U		< 108	U		14	J		16	J		--			--			--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		< 61.4	U		< 30.7	U		< 12.3	U		--			--			--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 1.41	U		< 7.04	U		< 3.52	U		4.58		J	--			--			--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 0.218	U		< 1.09	U		< 0.545	U		1.28		J	--			--			--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	< 0.384	U	UJ	< 0.192	U	UJ	< 0.0768	U	UJ	--			--			--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		< 0.26	U		< 0.13	U		< 0.0519	U		--			--			--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		< 2.11	U		1.45			0.27	J		--			--			--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		< 2.41	U		< 1.2	U		< 0.481	U		--			--			--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		< 4.4	U		< 2.2	U		< 0.88	U		--			--			--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 2.29	U		< 11.4	U		< 5.72	U		2.84			--			--			--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 2.33	U		< 11.7	U		7.87			7.24			--			--			--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		0.409			< 0.145	U		0.0616			--			--			--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U		< 2.37	U		< 1.18	U		< 0.474	U		--			--			--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 0.443	U		< 2.21	U		< 1.11	U		< 0.443	U		--			--			--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		< 2.27	U		< 1.13	U		< 0.453	U		--			--			--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 0.421	U		< 2.11	U		< 1.05	U		0.514			--			--			--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 0.449	U		< 2.25	U		< 1.12	U		< 0.449	U		--			--			--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		< 25.6	U		< 12.8	U		< 5.13	U		--			--			--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		< 0.349	U		< 0.174	U		< 0.0698	U	UJ	--			--			--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		< 1.45	U		< 0.725	U		< 0.29	U	UJ	--			--			--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		< 0.316	U		< 0.158	U		< 0.0633	U		--			--			--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		< 4.18	U		< 2.09	U		< 0.836	U		--			--			--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		< 0.0113	U		< 0.0057	U		< 0.0023	U		--			--			--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0020	U		< 0.0101	U		0.0180			0.0029			--			--			--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0022	U		< 0.0108	U		0.0189			0.0030			--			--			--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		< 2.56	U	UJ	< 1.28	U		< 0.512	U		--			--			--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		< 2.35	U		< 1.17	U		< 0.469	U		--			--			--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		< 2.22	U		< 1.11	U		< 0.444	U		--			--			--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		< 61.8	U		< 30.9	U		< 12.4	U		--			--			--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		< 60.1	U		< 30	U		< 12	U		--			--			--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0020	U		< 0.0101	U		0.0142			0.0054		J	--			--			--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	< 0.44	U		< 2.2	U		1.12			1.4			--			--			--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	< 0.627	U		< 3.14	U		3.81			2.71			--			--			--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 2.31	U		< 11.5	U		2.2	J		0.95	J		--			--			--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0024	U		< 0.0118	U		0.0264			0.0110			--			--			--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	< 0.489	U		< 2.44	U		0.93	J		0.46	J		--			--			--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		< 51.7	U		< 25.9	U		< 10.3	U		--			--			--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	< 0.551	U		< 2.75	U		0.85	J		< 0.551	U		--			--			--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	< 0.0963	U		< 0.482	U		0.11	J		0.078	J		--			--			--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		< 119	U		< 59.5	U		< 23.8	U		--			--			--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		< 2.39	U		0.39	J		< 0.477	U		--			--			--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		< 4.98	U		0.86	J		< 0.997	U		--			--			--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 0.0980	U		< 0.49	U		0.858			0.49			--			--			--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		< 0.0109	U		< 0.0054	U		< 0.0022	U		--			--			--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		< 0.0117	U		< 0.0059	U		< 0.0023	U		--			--			--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	< 4.57	U		< 22.9	U		14.1			8.37		J	--			--			--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		< 48.5	U		< 24.3	U		< 9.71	U		--			--			--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		< 124	U		< 61.8	U		< 24.7	U		--			--			--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		< 0.0092	U		< 0.0046	U		< 0.0018	U		--			--			--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		< 0.0106	U		< 0.0053	U		< 0.0021	U		--			--			--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0689	U		< 0.345	U		0.627			0.727			--			--			--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		< 22.8	U		< 11.4	U		< 4.56	U		--			--			--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		< 5.33	U		< 2.66	U		< 1.07	U		--			--			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				n-Propylbenzene			o-Xylene			Pentachlorophenol			Phenanthrene			Phenol			p-Isopropyltoluene			Pyrene			Pyridine		
Screening Criteria (mg/kg)							190			0.03						100						2300					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.0053	U		< 0.66	U		< 0.0066	U		< 0.33	U		< 0.0053	U		0.0013	J		< 0.33	UF1	UJ
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 13	U		< 0.77	U		0.0034	J		0.31	J		< 13	U		0.0042	J		< 0.39	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 3.6	U		< 0.8	U		0.0020	J		0.69			< 3.6	U		0.0047	J		< 0.4	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.0046	U		< 0.78	U		< 0.0078	U		< 0.39	U		< 0.0046	U		0.0015	J		< 0.39	U	UJ
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.69	U		< 0.0069	U		< 0.35	U		< 0.0054	U		< 0.0069	JB	U	< 0.35	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 0.38	U	UJ	< 0.76	U		0.044			0.17	J		< 0.38	U	UJ	0.016			< 0.38	U	
SB-102	SB102-52-120622	52	12/6/2022	0.29	J	J	1.2		J	< 0.82	U		0.0066	J		< 0.41	U		< 0.55	U	UJ	0.0015	J		< 0.41	U	
SB-102	SB102-52-120622-DUP	52	12/6/2022	0.41		J	1.1		J	< 0.83	U		0.0053	J		< 0.41	U		< 0.37	U	UJ	< 0.0081	U		< 0.41	U	
SB-102	SB102-55-120622	55	12/6/2022	4	J	J	6.1	J	J	< 0.76	U		0.062			1.3			< 12	U	UJ	0.011			< 0.38	U	
SB-102	SB102-72-120622	72	12/6/2022	0.045		J	0.038		J	< 0.69	U		0.0013	J		0.074	J		0.0035	J	J	0.0019	J		< 0.34	U	
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.0054	U		< 0.66	U		0.0067	B		< 0.33	U		< 0.0054	U		0.024	B		< 0.33	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.74	UF2		< 0.0074	U		< 0.37	U		< 0.0062	U	UJ	< 0.0074	U		< 0.37	UF1	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.68	U		0.0011	J		< 0.34	U		< 0.0051	U	UJ	0.0017	J		< 0.34	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.0057	U		< 0.67	U		< 0.0067	JB	U	< 0.34	U		< 0.0057	U		< 0.0067	JB	U	< 0.34	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.69	U		< 0.0069	U		< 0.34	U		< 0.0069	U	UJ	< 0.0069	U		< 0.34	U	
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.67	U		< 0.0067	U		< 0.34	U		< 0.0051	U	UJ	< 0.0067	U		< 0.34	U	
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.0060	U		< 0.83	U		0.0018	J		< 0.41	U		< 0.0060	U		0.0026	J		< 0.41	U	UJ
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.0052	U		< 0.65	U		< 0.0065	U		< 0.32	U		< 0.0052	U		< 0.0065	U		< 0.32	U	UJ
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.0055	U		< 0.72	U		< 0.0072	U		< 0.36	U		< 0.0055	U		0.0012	J		< 0.36	U	UJ
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.88	U		< 0.0088	U		< 0.44	U		< 0.0053	U		< 0.0088	U		< 0.44	U	UJ
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.0053	U		< 0.65	U		< 0.0065	U		< 0.33	U		< 0.0053	U		< 0.0065	U		< 0.33	U	UJ
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.0058	U		< 0.67	U		< 0.0067	U		< 0.34	U		< 0.0058	U		< 0.0067	U		< 0.34	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.0054	U		< 0.67	U	UJ	< 0.0067	U		< 0.34	U		< 0.0054	U		0.0012	J		< 0.34	U	UJ
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.0053	U		< 0.69	U	UJ	0.0024	J		< 0.35	U		< 0.0053	U		0.0036	J		< 0.35	U	UJ
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.01	U		< 0.66	U	UJ	< 0.0066	U		< 0.33	U		< 0.01	U		< 0.0066	U		< 0.33	U	UJ
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.68	U		< 0.0068	U		< 0.34	U		< 0.0053	U		< 0.0068	U		< 0.34	U	UJ
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.0054	U		< 0.69	U		0.0010	J		< 0.34	U		< 0.0054	U		0.0018	J		< 0.34	U	UJ
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.0081	U		< 0.67	U		< 0.0067	U		< 0.33	U		< 0.0081	U		< 0.0067	U		< 0.33	U	UJ
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.0072	U		< 0.71	U		< 0.0071	U		< 0.36	U		< 0.0072	U		0.0011	J		< 0.36	U	UJ
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.0068	U		< 0.71	U		< 0.0071	U		< 0.36	U		< 0.0068	U		0.0034	J		< 0.36	U	UJ
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.0053	U		< 0.83	U		0.0025	J		< 0.41	U		< 0.0053	U		0.0091			< 0.41	U	UJ
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.0036	U		< 0.68	U		0.0010	J		< 0.34	U		< 0.0036	U		0.0021	J		< 0.34	U	UJ
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.0058	U		< 0.67	U		< 0.0067	U		< 0.34	U		< 0.0058	U		< 0.0067	U		< 0.34	UF1	UJ
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.0056	U		< 0.67	U		< 0.0067	U		< 0.34	U		< 0.0056	U		< 0.0067	JB	U	< 0.34	UF1	UJ
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.0053	U		< 0.67	U		0.0024	J		< 0.34	U		< 0.0053	U		< 0.0067	JB	U	< 0.34	U	UJ
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.0062	U		< 0.7	U		< 0.0070	U		< 0.35	U		< 0.0062	U		< 0.0070	U		< 0.35	U	UJ
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.0053	U		< 0.69	U		< 0.0069	U		< 0.34	U		< 0.0053	U		< 0.0069	U		< 0.34	U	UJ
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.0061	U		< 0.69	U		< 0.0069	U		< 0.35	U		< 0.0061	U		< 0.0069	U		< 0.35	U	UJ
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.0059	U		< 0.74	U		< 0.0074	U		< 0.37	U		< 0.0059	U		< 0.0074	U		< 0.37	U	UJ
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.7	U		< 0.0070	U		< 0.35	U		< 0.0056	U		< 0.0070	JB	U	< 0.35	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.0056	U		< 0.66	U		< 0.0066	U		< 0.33	U		< 0.0056	U		< 0.0066	U		< 0.33	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.0053	U		< 0.67	U		< 0.0067	U		< 0.33	U		< 0.0053	U		< 0.0067	U		< 0.33	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.0098	U		< 0.72	U		< 0.0072	U		< 0.36	U		< 0.0098	U		< 0.0072	U		< 0.36	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.0056	U		< 0.67	U		< 0.0067	U		< 0.33	U		< 0.0056	U		< 0.0067	U		< 0.33	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.0049	U		< 0.67	U		< 0.0067	U		< 0.33	U		< 0.0049	U		< 0.0067	JB	U	< 0.33	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.0053	U		< 0.68	U		< 0.0068	U		< 0.34	U		< 0.0053	U		< 0.0068	U		< 0.34	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.0062	U		< 0.69	U		< 0.0069	U		< 0.34	U		< 0.0062	U		< 0.0069	U		< 0.34	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.0055	U		< 0.71	U		< 0.0071	U		< 0.35	U		< 0.0055	U		< 0.0071	U		< 0.35	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.0051	U		0.12	J		< 0.0065	U		< 0.33	U		< 0.0051	U		< 0.0065	U		< 0.33	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.0052	U		< 0.68	U		< 0.0068	U		< 0.34	U		< 0.0052	U		< 0.0068	U		< 0.34	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.0054	U		< 0.67	U	UJ	< 0.0067	U		< 0.34	U	UJ	< 0.0054	U		0.0015	J		< 0.34	U	UJ
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.0051	U		< 0.68	U	UJ	< 0.0068	U		< 0.34	U	UJ	< 0.0051	U		< 0.0068	U		< 0.34	U	UJ
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.69	U	UJ	< 0.0069	U		< 0.34	U	UJ	< 0.0056	U		< 0.0069	U		< 0.34	U	UJ
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.0056	U		< 0.68	U	UJ	< 0.0068	U		< 0.34	U	UJ	< 0.0056	U		< 0.0068	U		< 0.34	U	UJ
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.7	U		0.0030	J		< 0.35	U		< 0.0074	U	UJ	0.0041	J		< 0.35	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.67	U		< 0.0067	U		< 0.34	U		< 0.0085	U	UJ	< 0.0067	U		< 0.34	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.68	U		< 0.0068	U		< 0.34	U		< 0.0051	U	UJ	< 0.0068	U		< 0.34	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				n-Propylbenzene			o-Xylene			Pentachlorophenol			Phenanthrene			Phenol			p-Isopropyltoluene			Pyrene			Pyridine		
Screening Criteria (mg/kg)							**190**			**0.03**						**100**						**2300**					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		< 0.115	U		--			--			--			< 0.0577	U		--			--		
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		< 0.0974	U		--			--			--			< 0.0487	U		--			--		
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		< 0.0041	U		--			--			--			< 0.0020	U		--			--		
SB-103	SB103-68-051323	68	5/17/2023	**1.19**			< 1.07	U		--			--			--			< 0.534	U		--			--		
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		< 0.0038	U		--			--			--			< 0.0019	U		--			--		
SB-104	SB104-42-062023	42	6/20/2023	**1.02**			**1.36**			--			--			--			< 0.268	U		--			--		
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		< 4.63	U		--			--			--			< 2.31	U		--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		< 4.25	U		--			--			--			< 2.12	U		--			--		
SB-104	SB104-65-062023	65	6/20/2023	**0.0997**			< 0.12	U		--			--			--			< 0.0601	U		--			--		
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	< 0.122	U	UJ	--			--			--			< 0.0608	U	UJ	--			--		
SB-105	SB105-40-062023	40	6/20/2023	**6.11**			< 0.92	U		--			--			--			< 0.46	U		--			--		
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		< 0.121	U		--			--			--			< 0.0607	U		--			--		
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	< 0.104	U	UJ	--			--			--			< 0.0518	U	UJ	--			--		
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		< 0.0038	U		--			--			--			< 0.0019	U		--			--		
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		< 0.116	U		--			--			--			< 0.0581	U		--			--		
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	< 0.123	U	UJ	--			--			--			< 0.0616	U	UJ	--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		< 0.124	U		--			--			--			< 0.0620	U		--			--		
SB-106	SB106-58-061923	58	6/19/2023	**5.53**			< 1.38	U		--			--			--			< 0.692	U		--			--		
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		< 0.0037	U		--			--			--			< 0.0019	U		--			--		
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		< 0.105	U		--			--			--			< 0.0523	U		--			--		
SB-107	SB107-15-061723	15	6/17/2023	**0.487**			< 0.893	U		--			--			--			< 0.446	U		--			--		
SB-107	SB107-39-061723	39	6/17/2023	**2.4**			< 0.759	U		--			--			--			< 0.379	U		--			--		
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		< 0.251	U		--			--			--			< 0.125	U		--			--		
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	< 0.904	U	UJ	--			--			--			< 0.452	U	UJ	--			--		
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		< 0.0962	U		--			--			--			< 0.0481	U		--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		< 0.0047	U		--			--			--			< 0.0024	U		--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		< 0.995	U		--			--			--			< 0.498	U		--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		< 4.65	U		--			--			--			< 2.32	U		--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	**0.0059**			**0.0057**			--			--			--			< 0.0029	U		--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	**1.74**			< 1.79	U		--			--			--			< 0.893	U		--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		< 0.841	U		--			--			--			< 0.42	U		--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	**0.605**			< 1.07	U		--			--			--			< 0.535	U		--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	**0.691**			**1.09**			--			--			--			< 0.0597	U		--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	**0.0248**			**0.0873**			--			--			--			< 0.0021	U		--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		< 0.243	U		--			--			--			< 0.122	U		--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	**5.6**			**8.2**	J		--			--			--			< 4.54	U		--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	**4.7**			**12.5**			--			--			--			< 1.12	U		--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		< 0.965	U		--			--			--			< 0.482	U		--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		< 0.898	U		--			--			--			< 0.449	U		--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		< 7.18	U		--			--			--			< 3.59	U		--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		< 0.278	U		--			--			--			< 0.139	U		--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		**0.036**	J		--			--			--			< 0.0920	U		--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	**26.9**			**98.2**			--			--			--			< 20.3	U		--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		< 0.132	U		--			--			--			< 0.0658	U		--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		**0.189**			--			--			--			< 0.0570	U		--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	**1.34**			**5.61**			--			--			--			< 0.216	U		--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	**0.012**	J		**0.05**	J		--			--			--			< 0.0539	U		--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	**44.8**			**29.7**			--			--			--			**2.52**			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		< 0.102	U		--			--			--			< 0.0510	U		--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	**0.267**			**0.051**	J		--			--			--			**0.03**	J		--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	**10.5**			**1.4**	J		--			--			--			< 1.89	U		--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	**4.29**			< 46	U		--			--			--			**0.225**			--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	U		< 0.253	U		--			--			--			< 0.126	U		--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	**2.1**			< 0.1	U		--			--			--			**0.126**			--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	**1.68**			**5**	J		--			--			--			< 0.0579	U		--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	**0.0762**			**0.047**	J		--			--			--			< 0.0460	U		--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	**42.7**			**96.1**			--			--			--			**3.8**			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				n-Propylbenzene			o-Xylene			Pentachlorophenol			Phenanthrene			Phenol			p-Isopropyltoluene			Pyrene			Pyridine		
Screening Criteria (mg/kg)							190			0.03						100						2300					
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SI-BC1	SIBC1-40-051323	40	5/13/2023	**0.0024**			< 0.0044	U		--			--			--			< 0.0022	U		--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		< 0.883	U		--			--			--			< 0.442	U		--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	**1.41**			< 0.887	U		--			--			--			< 0.444	U		--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	**0.0156**			**0.0634**			--			--			--			< 0.0024	U		--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	**0.582**			**5.43**			--			--			--			< 0.377	U		--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	**19**	J		**21**	J		--			--			--			< 21.7	U		--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	U		< 24.6	U		--			--			--			< 12.3	U		--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	**7.37**		J	< 2.82	U		--			--			--			**4.96**		J	--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	**2.66**		J	< 0.436	U		--			--			--			**1.87**		J	--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	< 0.154	U	UJ	--			--			--			< 0.0768	U	UJ	--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		< 0.104	U		--			--			--			< 0.0519	U		--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	**0.837**			< 0.846	U		--			--			--			**0.26**	J		--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		< 0.963	U		--			--			--			< 0.481	U		--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		< 1.76	U		--			--			--			< 0.88	U		--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	**7.77**			**19**			--			--			--			< 2.29	U		--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	**9**			< 4.66	U		--			--			--			**4.72**			--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		< 0.116	U		--			--			--			< 0.0581	U		--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	**0.969**			< 0.948	U		--			--			--			< 0.474	U		--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	**1.29**			< 0.885	U		--			--			--			< 0.443	U		--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		< 0.907	U		--			--			--			< 0.453	U		--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	**0.563**			< 0.843	U		--			--			--			< 0.421	U		--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	**0.46**			< 0.898	U		--			--			--			< 0.449	U		--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		< 10.3	U		--			--			--			< 5.13	U		--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		< 0.14	U		--			--			--			< 0.0698	U		--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		< 0.58	U		--			--			--			< 0.29	U		--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		< 0.127	U		--			--			--			< 0.0633	U		--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		< 1.67	U		--			--			--			< 0.836	U		--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		< 0.0045	U		--			--			--			< 0.0023	U		--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	**0.0045**			**0.0079**			--			--			--			< 0.0020	U		--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	**0.0043**			**0.0074**			--			--			--			< 0.0022	U		--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		< 1.02	U		--			--			--			< 0.512	U		--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		< 0.939	U		--			--			--			< 0.469	U		--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		< 0.887	U		--			--			--			< 0.444	U		--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		**3.8**	J		--			--			--			< 12.4	U		--			--		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		**2**	J		--			--			--			< 12	U		--			--		
X-AE4	XAE4-48-030223	48	3/2/2023	**0.0105**		J	**0.0062**			--			--			--			**0.0007**	J	J	--			--		
X-AE4	XAE4-52-030223	52	3/2/2023	**2.16**			**1.73**			--			--			--			**0.14**	J		--			--		
X-AF6	XAF6-40-022723	40	2/27/2023	**5.2**			**16.3**		J	--			--			--			< 0.627	U		--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	**2.91**			**8.04**		J	--			--			--			< 2.31	U		--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	**0.0202**			**0.0159**			--			--			--			< 0.0024	U		--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	**1.24**			**2.97**			--			--			--			< 0.489	U		--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		< 20.7	U		--			--			--			< 10.3	U		--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	**0.42**	J		**0.64**	J		--			--			--			< 0.551	U		--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	**0.24**			**0.034**	J		--			--			--			< 0.0963	U		--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		**17**	J		--			--			--			< 23.8	U		--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		**0.081**	J		--			--			--			< 0.477	U		--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		**0.23**	J		--			--			--			< 0.997	U		--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	**0.798**			**0.324**			--			--			--			< 0.0980	U		--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		**0.0005**	J		--			--			--			< 0.0022	U		--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		< 0.0047	U		--			--			--			< 0.0023	U		--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	**14.4**			< 9.15	U		--			--			--			< 4.57	U		--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		< 19.4	U		--			--			--			< 9.71	U		--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		< 49.4	U		--			--			--			< 24.7	U		--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		< 0.0037	U		--			--			--			< 0.0018	U		--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		< 0.0042	U		--			--			--			< 0.0021	U		--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	**0.574**			**0.488**			--			--			--			< 0.0689	U		--			--		
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		< 9.13	U		--			--			--			< 4.56	U		--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		< 2.13	U		--			--			--			< 1.07	U		--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Quinoline			sec-Butylbenzene			Styrene			tert-Butylbenzene			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			trans-1,3-Dichloropropene		
Screening Criteria (mg/kg)										4						0.06			12			0.7					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	< 0.33	U		< 0.0053	U		< 0.0053	UF1		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SB-101	SB101-48-120722	48	12/7/2022	< 0.39	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U		< 13	U	
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 0.4	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U		< 3.6	U	
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.39	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		< 0.0046	U		0.0017	J		< 0.0046	U		< 0.0046	U	
SB-102	SB102-10-120522	10	12/5/2022	< 0.35	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U		< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ	< 0.38	U	UJ
SB-102	SB102-52-120622	52	12/6/2022	< 0.41	U		< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	< 0.55	U	UJ	0.87		J	< 0.55	U	UJ	< 0.55	U	UJ
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.41	U		< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	< 0.37	U	UJ	0.94		J	< 0.37	U	UJ	< 0.37	U	UJ
SB-102	SB102-55-120622	55	12/6/2022	< 0.38	U		< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	< 12	U	UJ	13		J	< 12	U	UJ	< 12	U	UJ
SB-102	SB102-72-120622	72	12/6/2022	< 0.34	U		0.0066		J	< 0.0043	U	UJ	0.0030	J	J	< 0.0043	U	UJ	0.1		J	< 0.0043	U	UJ	< 0.0043	U	UJ
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.33	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.37	U		< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ	< 0.0062	U	UJ
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.34	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U		< 0.0057	U	
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.34	U		< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ	< 0.0069	U	UJ
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.41	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U		< 0.0060	U	
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.32	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		0.0017	J		< 0.0052	U		< 0.0052	U	
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.36	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U	
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.44	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		0.0022	J		< 0.0058	U		< 0.0058	U	
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.34	U	UJ	< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.35	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.33	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U		< 0.01	U	
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.33	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U		< 0.0081	U	
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.36	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U		< 0.0072	U	
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.36	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U		< 0.0068	U	
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.41	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.34	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U		< 0.0036	U	
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.34	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U		< 0.0058	U	
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.34	UF1	UJ	< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.35	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U	
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.35	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U		< 0.0061	U	
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.37	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U		< 0.0059	U	
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.35	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.33	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.36	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U		< 0.0098	U	
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.33	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.33	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U		< 0.0049	U	
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.34	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U		< 0.0053	U	
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.34	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U		< 0.0062	U	
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.35	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U		< 0.0055	U	
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.33	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U	
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.34	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U		< 0.0052	U	
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.34	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U		< 0.0054	U	
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.34	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U		< 0.0051	U	
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.34	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U		< 0.0056	U	
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.35	U		< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ	< 0.0074	U	UJ
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.34	U		< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ	< 0.0085	U	UJ
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.34	U		< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ	< 0.0051	U	UJ

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Table 3
Pre-SEE Soil Analytical Results

				Quinoline			sec-Butylbenzene			Styrene			tert-Butylbenzene			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			trans-1,3-Dichloropropene		
Screening Criteria (mg/kg)										4						0.06			12			0.7					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U		< 0.0577	U	
SB-103	SB103-43-051723	43	5/17/2023	--			< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U		< 0.0487	U	
SB-103	SB103-58-051723	58	5/17/2023	--			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		0.0039			< 0.0020	U		< 0.0020	U	
SB-103	SB103-68-051323	68	5/17/2023	--			< 0.534	U		< 0.534	U		< 0.534	U		< 0.534	U		< 0.534	U		< 0.534	U		< 0.534	U	
SB-103	SB103-77-052423	77	5/24/2023	--			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U	UJ	< 0.0019	U		< 0.0019	U	
SB-104	SB104-42-062023	42	6/20/2023	--			< 0.268	U		< 0.268	U		< 0.268	U		< 0.268	U		< 0.268	U		< 0.268	U		< 0.268	U	
SB-104	SB104-57-062023	57	6/20/2023	--			< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U		< 2.12	U	
SB-104	SB104-65-062023	65	6/20/2023	--			< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U		< 0.0601	U	
SB-104	SB104-78-062023	78	6/20/2023	--			< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ	< 0.0608	U	UJ
SB-105	SB105-40-062023	40	6/20/2023	--			1.3			< 0.46	U		< 0.46	U		< 0.46	U		< 0.46	U		< 0.46	U		< 0.46	U	
SB-105	SB105-55-062023	55	6/20/2023	--			< 0.0607	U		< 0.0607	U		< 0.0607	U		< 0.0607	U		< 0.0607	U		< 0.0607	U		< 0.0607	U	
SB-105	SB105-67-062023	67	6/20/2023	--			< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ	< 0.0518	U	UJ
SB-105	SB105-73-062023	73	6/20/2023	--			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		0.0026			< 0.0019	U		< 0.0019	U	
SB-106	SB106-39-061923	39	6/19/2023	--			< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U	
SB-106	SB106-45-061923	45	6/19/2023	--			< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ	< 0.0616	U	UJ
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U		< 0.0620	U	
SB-106	SB106-58-061923	58	6/19/2023	--			< 0.692	U		< 0.692	U		< 0.692	U		< 0.692	U		< 0.692	U		< 0.692	U		< 0.692	U	
SB-106	SB106-68-061923	68	6/19/2023	--			< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U		< 0.0019	U	
SB-106	SB106-77-061923	77	6/19/2023	--			< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U		< 0.0523	U	
SB-107	SB107-15-061723	15	6/17/2023	--			< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U		< 0.446	U	
SB-107	SB107-39-061723	39	6/17/2023	--			0.817			< 0.379	U		< 0.379	U		< 0.379	U		< 0.379	U		< 0.379	U		< 0.379	U	
SB-107	SB107-58-061723	58	6/17/2023	--			< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U		< 0.125	U	
SB-107	SB107-67-061723	67	6/17/2023	--			< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ	< 0.452	U	UJ
SB-107	SB107-78-061723	78	6/17/2023	--			< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U		< 0.0481	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0024	U		0.0034			< 0.0024	U		< 0.0024	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			< 0.498	U		< 0.498	U		< 0.498	U		< 0.498	U		< 0.498	U		< 0.498	U		< 0.498	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U		< 2.32	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			< 0.0029	U		< 0.0029	U		< 0.0029	U		< 0.0029	U		0.0170			< 0.0029	U		< 0.0029	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			< 0.893	U		< 0.893	U		< 0.893	U		< 0.893	U		< 0.893	U		< 0.893	U		< 0.893	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U		< 0.42	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			< 0.535	U		< 0.535	U		< 0.535	U		< 0.535	U		1.84			< 0.535	U		< 0.535	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			0.126			< 0.0597	U		< 0.0597	U		< 0.0597	U		2.78			< 0.0597	U		< 0.0597	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		0.0560			< 0.0021	U		< 0.0021	U	
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U		< 0.122	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			< 4.54	U		< 4.54	U		< 4.54	U		< 4.54	U		5.49			< 4.54	U		< 4.54	U	
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			0.62	J		< 1.12	U		< 1.12	U		< 1.12	U		7.81			< 1.12	U		< 1.12	U	
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			< 0.482	U		< 0.482	U		< 0.482	U		< 0.482	U		0.2	J		< 0.482	U		< 0.482	U	
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		0.17	J		< 0.449	U		< 0.449	U	
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U		< 3.59	U	
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U		< 0.139	U	
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			< 0.0920	U		< 0.0920	U		< 0.0920	U		< 0.0920	U		0.039	J		< 0.0920	U		< 0.0920	U	
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			< 20.3	U		< 20.3	U		< 20.3	U		< 20.3	U		27.6			< 20.3	U		< 20.3	U	
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.0658	U		< 0.0658	U	UJ	< 0.0658	U		< 0.0658	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			< 0.0570	U		< 0.0570	U		< 0.0570	U		< 0.0570	U		0.45		J	< 0.0570	U		< 0.0570	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			0.18	J		< 0.216	U		< 0.216	U		< 0.216	U		33			< 0.216	U		< 0.216	U	
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			< 0.0539	U		< 0.0539	U		< 0.0539	U		< 0.0539	U		0.0902			< 0.0539	U		< 0.0539	U	
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			5.14			< 1.05	U		< 1.05	U		< 1.05	U		7.14			< 1.05	U		< 1.05	U	
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			0.017	J		< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U		< 0.0510	U	
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			0.138			< 0.0516	U		< 0.0516	U		< 0.0516	U		0.029	J		< 0.0516	U		< 0.0516	U	
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			1.98			< 1.89	U		< 1.89	U		< 1.89	U		< 1.89	U		< 1.89	U		< 1.89	U	
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			0.692			< 0.0575	U		< 0.0575	U		< 0.0575	U		< 23	U	UJ	< 0.0575	U		< 0.0575	U	
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			< 0.126	U		< 0.126	U		< 0.126	U		< 0.126	U		< 0.126	RU	UJ	< 0.126	U		< 0.126	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			0.296			< 0.0501	U		< 0.0501	U		< 0.0501	U		< 0.0501	U		< 0.0501	U		< 0.0501	U	
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			0.268			< 0.0579	U		< 0.0579	U		< 0.0579	U		3.49			< 0.0579	U		< 0.0579	U	
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			< 0.0460	U		< 0.0460	U		< 0.0460	U		< 0.0460	U		0.0532			< 0.0460	U		< 0.0460	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			5.66			2.98			3.62			< 0.447	U		15.9			< 0.447	U		< 0.447	U	

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Table 3
Pre-SEE Soil Analytical Results

				Quinoline			sec-Butylbenzene			Styrene			tert-Butylbenzene			Tetrachloroethene			Toluene			trans-1,2-Dichloroethene			trans-1,3-Dichloropropene		
Screening Criteria (mg/kg)										4						0.06			12			0.7					
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			< 0.442	U		< 0.442	U		< 0.442	U		< 0.442	U		< 0.442	U		< 0.442	U		< 0.442	U	
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			**0.721**		J	< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U	
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			< 0.0024	U		< 0.0024	U		< 0.0024	U		< 0.0024	U		**0.109**			< 0.0024	U		< 0.0024	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			< 0.377	U		< 0.377	U		< 0.377	U		< 0.377	U		**7.89**			< 0.377	U		< 0.377	U	
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			< 21.7	U		< 21.7	U		< 21.7	U		< 21.7	U		**7.4**	J		< 21.7	U		< 21.7	U	
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U		< 12.3	U	
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			**5.23**		J	< 1.41	U		**5.02**		J	< 1.41	U		< 1.41	U		< 1.41	U		< 1.41	U	
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			**2**		J	< 0.218	U		**1.92**		J	< 0.218	U		< 0.218	U		< 0.218	U		< 0.218	U	
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ	< 0.0768	U	UJ
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U		< 0.0519	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			**0.26**	J		< 0.423	U		**0.31**	J		< 0.423	U		< 0.423	U		< 0.423	U		< 0.423	U	
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U		< 0.481	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			< 0.88	U		< 0.88	U		< 0.88	U		< 0.88	U		**0.2**	J		< 0.88	U		< 0.88	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			< 2.29	U		< 2.29	U		< 2.29	U		< 2.29	U		< 2.29	U		< 2.29	U		< 2.29	U	
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			**4.22**			< 2.33	U		**4.92**			< 2.33	U		< 2.33	U		< 2.33	U		< 2.33	U	
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U		< 0.0581	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			< 0.474	U		< 0.474	U		< 0.474	U		< 0.474	U		< 0.474	U		< 0.474	U		< 0.474	U	
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			< 0.443	U		< 0.443	U		< 0.443	U		< 0.443	U		< 0.443	U		< 0.443	U		< 0.443	U	
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U		< 0.453	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			< 0.421	U		< 0.421	U		< 0.421	U		< 0.421	U		< 0.421	U		< 0.421	U		< 0.421	U	
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U		< 0.449	U	
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U		< 5.13	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			< 0.0698	U		< 0.0698	U		< 0.0698	U		< 0.0698	U		< 0.0698	U		< 0.0698	U		< 0.0698	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U		< 0.29	U	
T-AB2	TAB2-48-061523	48	6/15/2023	--			< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U		< 0.0633	U	
T-AB2	TAB2-59-061523	59	6/15/2023	--			< 0.836	U		< 0.836	U		< 0.836	U		< 0.836	U		< 0.836	U		< 0.836	U		< 0.836	U	
T-BG2	TBG2-48-071123	48	7/11/2023	--			< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U	
T-BG2	TBG2-59-071123	59	7/11/2023	--			< 0.0020	U		< 0.0020	U		< 0.0020	U		< 0.0020	U		**0.0117**			< 0.0020	U		< 0.0020	U	
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		**0.0108**			< 0.0022	U		< 0.0022	U	
X-AD2	XAD2-49-052323	49	5/23/2023	--			< 0.512	U		< 0.512	U		< 0.512	U		< 0.512	U		**1.29**		J	< 0.512	U		< 0.512	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			< 0.469	U		< 0.469	U		< 0.469	U		< 0.469	U		**2.78**		J	< 0.469	U		< 0.469	U	
X-AD2	XAD2-58-052323	58	5/23/2023	--			< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U		< 0.444	U	UJ	< 0.444	U		< 0.444	U	
X-AE4	XAE4-40-030223	40	3/2/2023	--			< 12.4	U		< 12.4	U		< 12.4	U		< 12.4	U		**7.2**	J		< 12.4	U		< 12.4	U	
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			< 12	U		< 12	U		< 12	U		< 12	U		**3**	J		< 12	U		< 12	U	
X-AE4	XAE4-48-030223	48	3/2/2023	--			**0.0017**	J	J	< 0.0020	U		< 0.0020	U		< 0.0020	U		**0.0099**			< 0.0020	U		< 0.0020	U	
X-AE4	XAE4-52-030223	52	3/2/2023	--			**0.26**	J		< 0.44	U		< 0.44	U		< 0.44	U		**0.21**	J		< 0.44	U		< 0.44	U	
X-AF6	XAF6-40-022723	40	2/27/2023	--			**0.938**			< 0.627	U		< 0.627	U		< 0.627	U		**7.35**		J	< 0.627	U		< 0.627	U	
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			< 2.31	U		< 2.31	U		< 2.31	U		< 2.31	U		**3.46**		J	< 2.31	U		< 2.31	U	
X-AF6	XAF6-47-022723	47	2/27/2023	--			**0.0026**			< 0.0024	U		< 0.0024	U		< 0.0024	U		**0.0168**			< 0.0024	U		< 0.0024	U	
X-AF6	XAF6-58-022723	58	2/27/2023	--			**0.15**	J		< 0.489	U		< 0.489	U		< 0.489	U		**0.49**	J		< 0.489	U		< 0.489	U	
X-AG5	XAG5-40-031823	40	3/18/2023	--			< 10.3	U		< 10.3	U		< 10.3	U		< 10.3	U		**2.6**	J		< 10.3	U		< 10.3	U	
X-AG5	XAG5-49-031823	49	3/18/2023	--			< 0.551	U		< 0.551	U		< 0.551	U		< 0.551	U		**0.39**	J		< 0.551	U		< 0.551	U	
X-AG5	XAG5-56-031823	56	3/18/2023	--			< 0.0963	U		< 0.0963	U		< 0.0963	U		< 0.0963	U		**0.071**	J		< 0.0963	U		< 0.0963	U	
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			< 23.8	U		< 23.8	U		< 23.8	U		< 23.8	U		**26.1**			< 23.8	U		< 23.8	U	
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			< 0.477	U		< 0.477	U		< 0.477	U		< 0.477	U		**0.22**	J		< 0.477	U		< 0.477	U	
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			< 0.997	U		< 0.997	U		< 0.997	U		< 0.997	U		**0.63**	J		< 0.997	U		< 0.997	U	
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			**0.1**			< 0.0980	U		< 0.0980	U		< 0.0980	U		**0.153**	B		< 0.0980	U		< 0.0980	U	
X-BB2	XBB2-4-030123	4	3/1/2023	--			< 0.0022	U		< 0.0022	U		< 0.0022	U		< 0.0022	U		**0.0031**			< 0.0022	U		< 0.0022	U	
X-BB2	XBB2-9-030123	9	3/1/2023	--			< 0.0023	U		< 0.0023	U		< 0.0023	U		< 0.0023	U		**0.0023**	J		< 0.0023	U		< 0.0023	U	
X-BB2	XBB2-38-051823	38	5/18/2023	--			< 4.57	U		< 4.57	U		< 4.57	U		< 4.57	U		< 4.57	U		< 4.57	U		< 4.57	U	
X-BB2	XBB2-47-051823	47	5/18/2023	--			< 9.71	U		< 9.71	U		< 9.71	U		< 9.71	U		< 9.71	U		< 9.71	U		< 9.71	U	
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			< 24.7	U		< 24.7	U		< 24.7	U		< 24.7	U		< 24.7	U		< 24.7	U		< 24.7	U	
X-BC3	XBC3-4-022423	4	2/24/2023	--			< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U		< 0.0018	U	
X-BC3	XBC3-9-022423	9	2/24/2023	--			< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U		< 0.0021	U	
X-BC3	XBC3-38-062123	38	6/21/2023	--			**0.193**			< 0.0689	U		< 0.0689	U		< 0.0689	U		< 0.0689	U		< 0.0689	U		< 0.0689	U	
X-BC3	XBC3-47-062123	47	6/21/2023	--			< 4.56	U		< 4.56	U		< 4.56	U		< 4.56	U		< 4.56	U		< 4.56	U		< 4.56	U	
X-BC3	XBC3-58-062123	58	6/21/2023	--			< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U		< 1.07	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Trichloroethene			Vinyl Acetate			Vinyl Chloride			Xylenes, Total			Gasoline Range Organics (C6 - C10)			Gasoline Range Organics (C6 - C12)			Total Petroluem Hydrocarbons (Method 8015B OA-2)			Diesel Range Organics (C10 - C21)		
Screening Criteria (mg/kg)							170			0.01			150														
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-101	SB101-20-120722	20	12/7/2022	< 0.0053	U		< 0.027	U		< 0.0053	U		< 0.011	U		--			2.7	J		--			--		
SB-101	SB101-48-120722	48	12/7/2022	< 13	U		< 66	U		< 13	U		< 27	U		--			630			--			--		
SB-101	SB101-51.5-120722	51.5	12/7/2022	< 3.6	U		< 18	U		< 3.6	U*+		< 7.2	U		--			470			--			--		
SB-101A	SB101A-67-121922	67	12/19/2022	< 0.0046	U		< 0.023	U		< 0.0046	U		0.0020	J		--			3.4	J		--			--		
SB-102	SB102-10-120522	10	12/5/2022	< 0.0054	U		< 0.027	U		< 0.0054	U		< 0.011	U		--			--			--			--		
SB-102	SB102-42-120622	42	12/6/2022	< 0.38	U	UJ	< 1.9	U	UJ	< 0.38	U	UJ	< 0.75	U	UJ	--			12		J	--			--		
SB-102	SB102-52-120622	52	12/6/2022	< 0.55	U	UJ	< 2.7	U	UJ	< 0.55	U	UJ	5.4		J	--			100		J	--			--		
SB-102	SB102-52-120622-DUP	52	12/6/2022	< 0.37	U	UJ	< 1.9	U	UJ	< 0.37	U	UJ	5.9		J	--			110		J	--			--		
SB-102	SB102-55-120622	55	12/6/2022	< 12	U	UJ	< 58	U	UJ	< 12	U	UJ	26		J	--			110		J	--			--		
SB-102	SB102-72-120622	72	12/6/2022	< 0.0043	U	UJ	< 0.022	U	UJ	< 0.0043	U	UJ	0.26		J	--			2.5	J	J	--			--		
SVP-01-10	SVP01-10-120522	10	12/5/2022	< 0.0054	U		< 0.027	U		< 0.0054	U		< 0.011	U		--			--			--			--		
SVP-01-20	SVP01-20-120922	20	12/9/2022	< 0.0062	U	UJ	< 0.031	U	UJ	< 0.0062	U	UJ	< 0.012	U	UJ	--			--			--			--		
SVP-01-30	SVP01-30-120922	30	12/9/2022	< 0.0051	U	UJ	< 0.026	U	UJ	< 0.0051	U	UJ	< 0.01	U	UJ	--			--			--			--		
SVP-02-10	SVP02-10-120522	10	12/5/2022	< 0.0057	U		< 0.028	U		< 0.0057	U		< 0.011	U		--			--			--			--		
SVP-02-20	SVP02-20-120622	20	12/6/2022	< 0.0069	U	UJ	< 0.034	U	UJ	< 0.0069	U*+	UJ	< 0.014	U	UJ	--			--			--			--		
SVP-02-30	SVP02-30-120622	30	12/6/2022	< 0.0051	U	UJ	< 0.026	U	UJ	< 0.0051	U*+	UJ	< 0.01	U	UJ	--			--			--			--		
SVP-03-10	SVP03-10-121222	10	12/12/2022	< 0.0060	U		< 0.03	U		< 0.0060	U		< 0.012	U		--			--			--			--		
SVP-03-20	SVP03-20-121222	20	12/12/2022	< 0.0052	U		< 0.026	U		< 0.0052	U		< 0.01	U		--			--			--			--		
SVP-03-30	SVP03-30-121222	30	12/12/2022	< 0.0055	U		< 0.027	U		< 0.0055	U		< 0.011	U		--			--			--			--		
SVP-04-10	SVP04-10-121222	10	12/12/2022	< 0.0053	U		< 0.027	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-04-20	SVP04-20-121222	20	12/12/2022	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-04-30	SVP04-30-121222	30	12/12/2022	< 0.0058	U		< 0.029	U		< 0.0058	U		0.0027	J		--			--			--			--		
SVP-05-10	SVP05-10-121322	10	12/13/2022	< 0.0054	U		< 0.027	U		< 0.0054	U		< 0.011	U		--			--			--			--		
SVP-05-20	SVP05-20-121322	20	12/13/2022	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-05-30	SVP05-30-121322	30	12/13/2022	< 0.01	U		< 0.051	U		< 0.01	U		< 0.02	U		--			--			--			--		
SVP-06-10	SVP06-10-121422	10	12/14/2022	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-06-20	SVP06-20-121422	20	12/14/2022	< 0.0054	U		< 0.027	U		< 0.0054	U		< 0.011	U		--			--			--			--		
SVP-06-30	SVP06-30-121422	30	12/14/2022	< 0.0081	U		< 0.04	U		< 0.0081	U		< 0.016	U		--			--			--			--		
SVP-07-10	SVP07-10-121422	10	12/14/2022	< 0.0072	U		< 0.036	U		< 0.0072	U		< 0.014	U		--			--			--			--		
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	< 0.0068	U		< 0.034	U		< 0.0068	U		< 0.014	U		--			--			--			--		
SVP-07-20	SVP07-20-121422	20	12/14/2022	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-07-30	SVP07-30-121422	30	12/14/2022	< 0.0036	U		< 0.018	U		< 0.0036	U		< 0.0072	U		--			--			--			--		
SVP-08-10	SVP08-10-010623	10	1/6/2023	< 0.0058	U		< 0.029	U		< 0.0058	U		< 0.012	U		--			--			--			--		
SVP-08-20	SVP08-20-010923	20	1/9/2023	< 0.0056	U		< 0.028	U		< 0.0056	U		< 0.011	U		--			--			--			--		
SVP-08-30	SVP08-30-010923	30	1/9/2023	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-09-10	SVP09-10-010623	10	1/6/2023	< 0.0062	U		< 0.031	U		< 0.0062	U		< 0.012	U		--			--			--			--		
SVP-09-20	SVP09-20-010623	20	1/6/2023	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	< 0.0061	U		< 0.03	U		< 0.0061	U		< 0.012	U		--			--			--			--		
SVP-09-30	SVP09-30-010623	30	1/6/2023	< 0.0059	U		< 0.03	U		< 0.0059	U		< 0.012	U		--			--			--			--		
SVP-10-10	SVP10-10-010423	10	1/4/2023	< 0.0056	U		< 0.028	U		< 0.0056	U		< 0.011	U		--			--			--			--		
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	< 0.0056	U		< 0.028	U		< 0.0056	U		< 0.011	U		--			--			--			--		
SVP-10-20	SVP10-20-010423	20	1/4/2023	< 0.0053	U		< 0.027	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-10-30	SVP10-30-010423	30	1/4/2023	< 0.0098	U		< 0.049	U		< 0.0098	U		< 0.02	U		--			--			--			--		
SVP-11-10	SVP11-10-010323	10	1/3/2023	< 0.0056	U		< 0.028	U		< 0.0056	U		< 0.011	U		--			--			--			--		
SVP-11-20	SVP11-20-010323	20	1/3/2023	< 0.0049	U		< 0.024	U		< 0.0049	U		< 0.0098	U		--			--			--			--		
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	< 0.0053	U		< 0.026	U		< 0.0053	U		< 0.011	U		--			--			--			--		
SVP-11-30	SVP11-30-010323	30	1/3/2023	< 0.0062	U		< 0.031	U		< 0.0062	U		< 0.012	U		--			--			--			--		
SVP-12-10	SVP12-10-010323	10	1/3/2023	< 0.0055	U		< 0.027	U		< 0.0055	U		< 0.011	U		--			--			--			--		
SVP-12-20	SVP12-20-010323	20	1/3/2023	< 0.0051	U		< 0.025	U		< 0.0051	U		< 0.01	U		--			--			--			--		
SVP-12-30	SVP12-30-010323	30	1/3/2023	< 0.0052	U		< 0.026	U		< 0.0052	U		< 0.01	U		--			--			--			--		
SVP-13-10	SVP13-10-121622	10	12/16/2022	< 0.0054	U		< 0.027	U		< 0.0054	U		< 0.011	U		--			--			--			--		
SVP-13-20	SVP13-20-121622	20	12/16/2022	< 0.0051	U		< 0.025	U		< 0.0051	U		< 0.01	U		--			--			--			--		
SVP-13-30	SVP13-30-121622	30	12/16/2022	< 0.0056	U		< 0.028	U		< 0.0056	U		< 0.011	U		--			--			--			--		
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	< 0.0056	U		< 0.028	U		< 0.0056	U		< 0.011	U		--			--			--			--		
SVP-14-10	SVP14-10-010523	10	1/5/2023	< 0.0074	U	UJ	< 0.037	U	UJ	< 0.0074	U	UJ	< 0.015	U	UJ	--			--			--			--		
SVP-14-20	SVP14-20-010523	20	1/5/2023	< 0.0085	U	UJ	< 0.043	U	UJ	< 0.0085	U	UJ	< 0.017	U	UJ	--			--			--			--		
SVP-14-30	SVP14-30-010523	30	1/5/2023	< 0.0051	U	UJ	< 0.026	U	UJ	< 0.0051	U	UJ	< 0.01	U	UJ	--			--			--			--		

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Table 3
Pre-SEE Soil Analytical Results

				Trichloroethene			Vinyl Acetate			Vinyl Chloride			Xylenes, Total			Gasoline Range Organics (C6 - C10)			Gasoline Range Organics (C6 - C12)			Total Petroluem Hydrocarbons (Method 8015B OA-2)			Diesel Range Organics (C10 - C21)		
Screening Criteria (mg/kg)							170			0.01			150														
Location	**Sample ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**	**Result (mg/kg)**	**Lab Quals**	**AECOM Quals**
SB-103	SB103-38-051723	38	5/17/2023	< 0.0577	U		< 1.44	U		< 0.0577	U		< 0.231	U		45			--			< 83.3	U	UJ	789		
SB-103	SB103-43-051723	43	5/17/2023	< 0.0487	U		< 1.22	U		< 0.0487	U		< 0.195	U		15.4			--			< 84.3	U	UJ	86.2		
SB-103	SB103-58-051723	58	5/17/2023	< 0.0020	U		< 0.0508	U		< 0.0020	U		< 0.0081	U		< 0.508	U		--			< 5.72	U		< 13.4	U	
SB-103	SB103-68-051323	68	5/17/2023	< 0.534	U		< 13.4	U		< 0.534	U		< 2.14	U		789			--			< 20.7	U	UJ	29.5		
SB-103	SB103-77-052423	77	5/24/2023	< 0.0019	U		< 0.0469	U		< 0.0019	U		< 0.0075	U		< 0.469	U		--			< 11.7	U		< 27.3	U	
SB-104	SB104-42-062023	42	6/20/2023	< 0.268	U		< 6.71	U		< 0.268	U		6			108			--			< 6.28	U		17.1		
SB-104	SB104-57-062023	57	6/20/2023	< 2.31	U		< 57.8	U		< 2.31	U		< 9.25	U		< 578	U		--			7.02	#		< 14.9	U	
SB-104	SB104-57-062023-DUP	57	6/20/2023	< 2.12	U		< 53.1	U		< 2.12	U		< 8.5	U		< 531	U		--			16.8	#		20.6		
SB-104	SB104-65-062023	65	6/20/2023	< 0.0601	U		< 1.5	U		< 0.0601	U		0.29			< 15	U		--			< 5.78	U		< 14.4	U	
SB-104	SB104-78-062023	78	6/20/2023	< 0.0608	U	UJ	< 1.52	U	UJ	< 0.0608	U	UJ	< 0.243	U	UJ	< 15.2	U	UJ	--			< 5.42	U		< 13.0	U	
SB-105	SB105-40-062023	40	6/20/2023	< 0.46	U		< 11.5	U		< 0.46	U		< 1.84	U		185			--			206	#		206		
SB-105	SB105-55-062023	55	6/20/2023	< 0.0607	U		< 1.52	U		< 0.0607	U		< 0.243	U		209			--			< 6.69	U		< 15.1	U	
SB-105	SB105-67-062023	67	6/20/2023	< 0.0518	U	UJ	< 1.3	U	UJ	< 0.0518	U	UJ	< 0.207	U	UJ	< 13	U	UJ	--			< 10.8	U		< 14.3	U	
SB-105	SB105-73-062023	73	6/20/2023	< 0.0019	U		< 0.0477	U		< 0.0019	U		< 0.0076	U		< 0.477	U		--			< 5.66	U		< 13.9	U	
SB-106	SB106-39-061923	39	6/19/2023	< 0.0581	U		< 1.45	U		< 0.0581	U		< 0.232	U		< 14.5	U		--			< 6.31	U		< 15.6	U	
SB-106	SB106-45-061923	45	6/19/2023	< 0.0616	U	UJ	< 1.54	U	UJ	< 0.0616	U	UJ	< 0.246	U	UJ	< 15.4	U	UJ	--			< 154	U	UJ	46.1		
SB-106	SB106-45-061923-DUP	45	6/19/2023	< 0.0620	U		< 1.55	U		< 0.0620	U		< 0.248	U		19			--			< 146	U	UJ	47.8		
SB-106	SB106-58-061923	58	6/19/2023	< 0.692	U		< 17.3	U		< 0.692	U		< 2.77	U		1120			--			< 188	U	UJ	< 17.0	U	
SB-106	SB106-68-061923	68	6/19/2023	< 0.0019	U		< 0.0466	U		< 0.0019	U		< 0.0075	U		< 0.466	U		--			< 5.80	U		< 12.2	U	
SB-106	SB106-77-061923	77	6/19/2023	< 0.0523	U		< 1.31	U		< 0.0523	U		< 0.209	U		< 13.1	U		--			< 5.69	U		< 12.9	U	
SB-107	SB107-15-061723	15	6/17/2023	< 0.446	U		< 11.2	U		< 0.446	U		< 1.79	U		< 112	U		--			< 164	U	UJ	5040		
SB-107	SB107-39-061723	39	6/17/2023	< 0.379	U		< 9.48	U		< 0.379	U		< 1.52	U		122			--			1240	#		519		
SB-107	SB107-58-061723	58	6/17/2023	< 0.125	U		< 3.13	U		< 0.125	U		< 0.501	U		< 31.3	U		--			< 6.64	U		< 16.5	U	
SB-107	SB107-67-061723	67	6/17/2023	< 0.452	U	UJ	< 11.3	U	UJ	< 0.452	U	UJ	< 1.81	U	UJ	< 113	U	UJ	--			< 6.48	U		< 15.5	U	
SB-107	SB107-78-061723	78	6/17/2023	< 0.0481	U		< 1.2	U		< 0.0481	U		< 0.192	U		< 12	U		--			< 5.93	U		< 13.2	U	
SI-AA1	SIAA1-45-051123	45	5/11/2023	< 0.0024	U		< 0.0588	U		< 0.0024	U		< 0.0094	U		< 0.588	U		--			< 5.64	U		< 13.6	U	
SI-AA1	SIAA1-50-051123	50	5/11/2023	< 0.498	U		< 12.4	U		< 0.498	U		< 1.99	U		603			--			< 12.4	U	UJ	< 14.2	U	
SI-AA1	SIAA1-56-051123	56	5/11/2023	< 2.32	U		< 58.1	U		< 2.32	U		< 9.29	U		< 581	U		--			< 5.76	U		< 14.0	U	
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	< 0.0029	U		< 0.0715	U		< 0.0029	U		0.0272			< 960	U		--			< 5.68	U		< 13.9	U	
SI-AA3	SIAA3-45-051023	45	5/10/2023	< 0.893	U		< 22.3	U		< 0.893	U		< 3.57	U		549			--			< 103	U	UJ	< 115	U	
SI-AA3	SIAA3-56-051023	56	5/10/2023	< 0.42	U		< 10.5	U		< 0.42	U		< 1.68	U		225			--			< 6.05	U		< 14.0	U	
SI-AB0	SIAB0-48-061323	48	6/13/2023	< 0.535	U		< 13.4	U		< 0.535	U		3.57			1280			--			< 26.7	U		< 73.2	U	
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	< 0.0597	U		< 1.49	U		< 0.0597	U		4.45			< 11900	U		--			< 308	U	UJ	< 69.2	U	
SI-AB0	SIAB0-56-061323	56	6/13/2023	< 0.0021	U		< 0.0530	U		< 0.0021	U		0.406			< 11600	U		--			< 11.5	U		< 24.3	U	
SI-AC4	SIAC4-41-042523	41	4/25/2023	< 0.122	U		< 3.04	U		< 0.122	U		< 0.487	U		< 30.4	U		--			--			< 14.8	U	
SI-AC4	SIAC4-48-042523	48	4/25/2023	< 4.54	U		< 113	U		< 4.54	U		40.9			4150			--			--			41.6		
SI-AC4	SIAC4-56-042523	56	4/25/2023	< 1.12	U		< 28.1	U		< 1.12	U		48.3			851			--			--			24.7		
SI-AD3	SIAD3-47-042623	47	4/26/2023	< 0.482	U		< 12.1	U		< 0.482	U		< 1.93	U		--			--			--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	< 0.449	U		< 11.2	U		< 0.449	U		0.36	J		--			--			--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	< 3.59	U		< 89.7	U		< 3.59	U		< 14.4	U		--			--			--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	< 0.139	U		< 3.47	U		< 0.139	U		< 0.555	U		--			--			--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	< 0.0920	U		< 2.3	U		< 0.0920	U		0.15	J		--			--			--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	< 20.3	U		< 507	U		< 20.3	U		368			--			--			--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	< 0.0658	U		< 1.65	U		< 0.0658	U		< 0.263	U		< 16.5	U		--			< 11.6	U		< 26.5	U	
SI-AF2	SIAF2-49-051623	49	5/16/2023	< 0.0570	U		< 1.42	U		< 0.0570	U		0.453			39.6			--			< 5.80	U		< 14.2	U	
SI-AF3	SIAF3-41-031423	41	3/14/2023	< 0.216	U		< 5.39	U		< 0.216	U		20.4			--			--			--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	< 0.0539	U		< 1.35	U		< 0.0539	U		0.223			--			--			--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	< 1.05	U		< 26.2	U		< 1.05	U		394			--			--			--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	< 0.0510	U		< 1.28	U		< 0.0510	U		< 0.204	U		< 12.8	U		--			--			131		
SI-AG7	SIAG7-43-022023	43	2/20/2023	< 0.0516	U		< 1.29	U		< 0.0516	U		0.295			123			--			--			211		
SI-AG7	SIAG7-55-022123	55	2/21/2023	< 1.89	U		< 47.1	U		< 1.89	U		9.77			2160			--			--			431	S	J
SI-AI7	SIAI7-38-052023	38	5/20/2023	< 0.0575	U		< 1.44	U		< 0.0575	U		< 92	U		< 5750	U		--			< 11.4	U	UJ	353		
SI-AI7	SIAI7-48-052023	48	5/20/2023	< 0.126	SRU	UJ	< 3.16	U		< 0.126	U		< 0.505	U		< 31.6	U		--			< 11.1	U		< 28.1	U	
SI-AI7	SIAI7-55-052023	55	5/20/2023	< 0.0501	U		< 1.25	U		< 0.0501	U		1.81			264			--			< 5.74	U		15.2		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	< 0.0579	U		< 1.45	U		< 0.0579	U		27.4			870	J		--			--			63.7		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	< 0.0460	U		< 1.15	U		< 0.0460	U		0.465			19.9			--			--			< 13.0	U	
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	< 0.447	U		< 11.2	U		< 0.447	U		551			8650			--			--			390		

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Table 3
Pre-SEE Soil Analytical Results

				Trichloroethene			Vinyl Acetate			Vinyl Chloride			Xylenes, Total			Gasoline Range Organics (C6 - C10)			Gasoline Range Organics (C6 - C12)			Total Petroluem Hydrocarbons (Method 8015B OA-2)			Diesel Range Organics (C10 - C21)		
Screening Criteria (mg/kg)							170			0.01			150														
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	< 0.0022	U		< 0.0555	U		< 0.0022	U		< 0.0089	U		0.893			--			< 6.14	U		< 14.6	U	
SI-BC1	SIBC1-49-051323	49	5/13/2023	< 0.442	U		< 11	U		< 0.442	U		< 1.77	U		< 110	U		--			< 27.4	U	UJ	247		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	< 0.444	U		< 11.1	U		< 0.444	U		1.86			196			--			< 27.9	U	UJ	517		
SI-BC1	SIBC1-56-051323	56	5/13/2023	< 0.0024	U		< 0.0603	U		< 0.0024	U		0.209			377			--			< 12.3	U		< 26.5	U	
SI-BD2	SIBD2-46-032723	46	3/27/2023	< 0.377	U		< 9.42	U		< 0.377	U		20.2			--			--			--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	< 21.7	U		< 542	U		< 21.7	U		122			--			--			--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	< 12.3	BU		< 307	U		< 12.3	U		< 49.1	U		--			--			--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	< 1.41	U		< 35.2	U		< 1.41	U		< 5.63	U		1280		J	--			153	#		188		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	< 0.218	U		< 5.45	U		< 0.218	U		< 0.872	U		532		J	--			192	#		129		
SI-BD3	SIBD3-30-62223	30	6/22/2023	< 0.0768	U	UJ	< 1.92	U	UJ	< 0.0768	U	UJ	< 0.307	U	UJ	< 19.2	U	UJ	--			< 14.1	U	UJ	< 16.8	U	
SI-BD3	SIBD3-57-062223	57	6/22/2023	< 0.0519	U		< 1.3	U		< 0.0519	U		< 0.208	U		< 13	U		--			< 11.6	U	UJ	< 14.4	U	
SI-BE2	SIBE2-47-032923	47	3/29/2023	< 0.423	U		< 10.6	U		< 0.423	U		< 1.69	U		< 106	U		--			--			24.3		
SI-BE2	SIBE2-53-032923	53	3/29/2023	< 0.481	U		< 12	U		< 0.481	U		< 1.93	U		64	J		--			--			< 13.7	U	
SI-BE2	SIBE2-56-032923	56	3/29/2023	< 0.88	U		< 22	U		< 0.88	U		< 3.52	U		389			--			--			< 14.7	U	
SI-BE4	SIBE4-39-061523	39	6/15/2023	< 2.29	U		< 57.2	U		< 2.29	U		84.6			887			--			< 54.2	U	UJ	1200		
SI-BE4	SIBE4-49-061523	49	6/15/2023	< 2.33	U		< 58.3	U		< 2.33	U		13.7			941			--			2050	#		1400		
SI-BE4	SIBE4-55-061523	55	6/15/2023	< 0.0581	U		< 1.45	U		< 0.0581	U		< 0.233	U		< 14.5	U		--			< 11.2	U		< 26.5	U	
SI-BF1	SIBF1-48-051223	48	5/12/2023	< 0.474	U		< 11.8	U		< 0.474	U		< 1.9	U		< 118	U		--			< 24.4	U	UJ	105		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	< 0.443	U		< 11.1	U		< 0.443	U		< 1.77	U		< 111	U		--			< 10.9	U	UJ	106		
SI-BF1	SIBF1-56-051223	56	5/12/2023	< 0.453	U		< 11.3	U		< 0.453	U		< 1.81	U		230			--			< 6.01	U		< 28.7	U	
SI-BF3	SIBF3-48-062923	48	6/29/2023	< 0.421	U		< 10.5	U		< 0.421	U		2.04			--			--			--			148		J
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	< 0.449	U		< 11.2	U		< 0.449	U		1.93			--			--			--			40.1		J
SI-BF3	SIBF3-56-062923	56	6/29/2023	< 5.13	U		< 128	U		< 5.13	U		< 20.5	U		--			--			--			< 28.4	U	
SI-BH3	SIBH3-48-071423	48	7/14/2023	< 0.0698	U		< 1.74	U		< 0.0698	U		< 0.279	U		< 17.4	U		--			< 6.17	U		< 14.9	U	
SI-BH3	SIBH3-56-071123	56	7/14/2023	< 0.29	U		< 7.25	U		< 0.29	U		< 1.16	U		< 72.5	U		--			< 12.8	U		< 13.8	U	
T-AB2	TAB2-48-061523	48	6/15/2023	< 0.0633	U		< 1.58	U		< 0.0633	U		< 0.253	U		< 15.8	U		--			< 150	U	UJ	< 13.8	U	
T-AB2	TAB2-59-061523	59	6/15/2023	< 0.836	U		< 20.9	U		< 0.836	U		5.27			374			--			< 154	U	UJ	< 28.3	U	
T-BG2	TBG2-48-071123	48	7/11/2023	< 0.0023	U		< 0.0565	U		< 0.0023	U		< 0.0090	U		< 0.565	U		--			< 5.66	U		< 25.8	U	
T-BG2	TBG2-59-071123	59	7/11/2023	< 0.0020	U		< 0.0507	U		< 0.0020	U		0.0421			< 1020	U		--			< 5.78	U		< 13.2	U	
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	< 0.0022	U		< 0.0538	U		< 0.0022	U		0.0385			< 1070	U		--			< 5.80	U		< 13.3	U	
X-AD2	XAD2-49-052323	49	5/23/2023	< 0.512	U		< 12.8	U		< 0.512	U		< 2.05	U		443		J	--			< 4.90	U		< 25.2	U	
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	< 0.469	U		< 11.7	U		< 0.469	U		< 1.88	U		801		J	--			< 4.98	U		< 12.7	U	
X-AD2	XAD2-58-052323	58	5/23/2023	< 0.444	U		< 11.1	U		< 0.444	U		< 1.77	U		195			--			< 11.3	U		< 14.2	U	
X-AE4	XAE4-40-030223	40	3/2/2023	< 12.4	U		< 309	U		< 12.4	U		14	J		9420			--			--			45.2		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	< 12	U		< 300	U		< 12	U		< 48	U		5330			--			--			40.3		
X-AE4	XAE4-48-030223	48	3/2/2023	< 0.0020	U		< 0.0507	U		< 0.0020	U		0.0422			< 556	U		--			--			< 13.5	U	
X-AE4	XAE4-52-030223	52	3/2/2023	< 0.44	U		< 11	U		< 0.44	U		18.2			402			--			--			14.6		
X-AF6	XAF6-40-022723	40	2/27/2023	< 0.627	U		< 15.7	U		< 0.627	U		66.7		J	--			--			--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	< 2.31	U		< 57.7	U		< 2.31	U		32.7		J	--			--			--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	< 0.0024	U		< 0.0588	U		< 0.0024	U		0.0870			--			--			--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	< 0.489	U		< 12.2	U		< 0.489	U		12.1			--			--			--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	< 10.3	U		< 259	U		< 10.3	U		< 41.4	U		--			--			--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	< 0.551	U		< 13.8	U		< 0.551	U		5.62			--			--			--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	< 0.0963	U		< 2.41	U		< 0.0963	U		0.463			--			--			--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	< 23.8	U		< 595	U		< 23.8	U		63	J		--			--			--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	< 0.477	U		< 11.9	U		< 0.477	U		1.2	J		--			--			--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	< 0.997	U		< 24.9	U		< 0.997	U		3.2	J		--			--			--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	< 0.0980	U		< 2.45	U		< 0.0980	U		6.62			--			--			--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	< 0.0022	U		< 0.0545	U		< 0.0022	U		< 0.0087	U		< 0.545	U		--			--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	< 0.0023	U		< 0.0585	U		< 0.0023	U		< 0.0094	U		< 0.585	U		--			--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	< 4.57	U		< 114	U		< 4.57	U		21.6			1360			--			< 84.9	U	UJ	2090		
X-BB2	XBB2-47-051823	47	5/18/2023	< 9.71	U		< 243	U		< 9.71	U		< 38.8	U		< 2430	U		--			< 92.4	U	UJ	737		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	< 24.7	U		< 618	U		< 24.7	U		< 98.8	U		< 6180	U		--			< 174	U	UJ	1240		
X-BC3	XBC3-4-022423	4	2/24/2023	< 0.0018	U		< 0.0460	U		< 0.0018	U		< 0.0074	U		< 0.46	U		--			--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	< 0.0021	U		< 0.0528	U		< 0.0021	U		< 0.0084	U		< 0.528	U		--			--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	< 0.0689	U		< 1.72	U		< 0.0689	U		3.19			106			--			< 20.8	U	UJ	39.5		
X-BC3	XBC3-47-062123	47	6/21/2023	< 4.56	U		< 114	U		< 4.56	U		< 18.3	U		1630			--			500	#		481		J
X-BC3	XBC3-58-062123	58	6/21/2023	< 1.07	U		< 26.6	U		< 1.07	U		< 4.26	U		< 266	U		--			< 5.92	U		< 14.8	U	

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Diesel Range Organics (C10 - C28)			Oil Range Organics (C21 - C35)		
Screening Criteria (mg/kg)									
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-101	SB101-20-120722	20	12/7/2022	**4.6**	**J**		--		
SB-101	SB101-48-120722	48	12/7/2022	< 5.8	**U**		--		
SB-101	SB101-51.5-120722	51.5	12/7/2022	**3.1**	**J**		--		
SB-101A	SB101A-67-121922	67	12/19/2022	< 5.8	**U**		--		
SB-102	SB102-10-120522	10	12/5/2022	--			--		
SB-102	SB102-42-120622	42	12/6/2022	**13**			--		
SB-102	SB102-52-120622	52	12/6/2022	**30**			--		
SB-102	SB102-52-120622-DUP	52	12/6/2022	**47**			--		
SB-102	SB102-55-120622	55	12/6/2022	**600**			--		
SB-102	SB102-72-120622	72	12/6/2022	**3.3**	**J**		--		
SVP-01-10	SVP01-10-120522	10	12/5/2022	--			--		
SVP-01-20	SVP01-20-120922	20	12/9/2022	--			--		
SVP-01-30	SVP01-30-120922	30	12/9/2022	--			--		
SVP-02-10	SVP02-10-120522	10	12/5/2022	--			--		
SVP-02-20	SVP02-20-120622	20	12/6/2022	--			--		
SVP-02-30	SVP02-30-120622	30	12/6/2022	--			--		
SVP-03-10	SVP03-10-121222	10	12/12/2022	--			--		
SVP-03-20	SVP03-20-121222	20	12/12/2022	--			--		
SVP-03-30	SVP03-30-121222	30	12/12/2022	--			--		
SVP-04-10	SVP04-10-121222	10	12/12/2022	--			--		
SVP-04-20	SVP04-20-121222	20	12/12/2022	--			--		
SVP-04-30	SVP04-30-121222	30	12/12/2022	--			--		
SVP-05-10	SVP05-10-121322	10	12/13/2022	--			--		
SVP-05-20	SVP05-20-121322	20	12/13/2022	--			--		
SVP-05-30	SVP05-30-121322	30	12/13/2022	--			--		
SVP-06-10	SVP06-10-121422	10	12/14/2022	--			--		
SVP-06-20	SVP06-20-121422	20	12/14/2022	--			--		
SVP-06-30	SVP06-30-121422	30	12/14/2022	--			--		
SVP-07-10	SVP07-10-121422	10	12/14/2022	--			--		
SVP-07-10	SVP07-10-121422-DUP	10	12/14/2022	--			--		
SVP-07-20	SVP07-20-121422	20	12/14/2022	--			--		
SVP-07-30	SVP07-30-121422	30	12/14/2022	--			--		
SVP-08-10	SVP08-10-010623	10	1/6/2023	--			--		
SVP-08-20	SVP08-20-010923	20	1/9/2023	--			--		
SVP-08-30	SVP08-30-010923	30	1/9/2023	--			--		
SVP-09-10	SVP09-10-010623	10	1/6/2023	--			--		
SVP-09-20	SVP09-20-010623	20	1/6/2023	--			--		
SVP-09-20	SVP09-20-010623-DUP	20	1/6/2023	--			--		
SVP-09-30	SVP09-30-010623	30	1/6/2023	--			--		
SVP-10-10	SVP10-10-010423	10	1/4/2023	--			--		
SVP-10-10	SVP10-10-010423-DUP	10	1/4/2023	--			--		
SVP-10-20	SVP10-20-010423	20	1/4/2023	--			--		
SVP-10-30	SVP10-30-010423	30	1/4/2023	--			--		
SVP-11-10	SVP11-10-010323	10	1/3/2023	--			--		
SVP-11-20	SVP11-20-010323	20	1/3/2023	--			--		
SVP-11-20	SVP11-20-010323-DUP	20	1/3/2023	--			--		
SVP-11-30	SVP11-30-010323	30	1/3/2023	--			--		
SVP-12-10	SVP12-10-010323	10	1/3/2023	--			--		
SVP-12-20	SVP12-20-010323	20	1/3/2023	--			--		
SVP-12-30	SVP12-30-010323	30	1/3/2023	--			--		
SVP-13-10	SVP13-10-121622	10	12/16/2022	--			--		
SVP-13-20	SVP13-20-121622	20	12/16/2022	--			--		
SVP-13-30	SVP13-30-121622	30	12/16/2022	--			--		
SVP-13-30	SVP13-30-121622-DUP	30	12/16/2022	--			--		
SVP-14-10	SVP14-10-010523	10	1/5/2023	--			--		
SVP-14-20	SVP14-20-010523	20	1/5/2023	--			--		
SVP-14-30	SVP14-30-010523	30	1/5/2023	--			--		

SEE LAST PAGE OF TABLE FOR NOTES

Table 3
Pre-SEE Soil Analytical Results

				Diesel Range Organics (C10 - C28)			Oil Range Organics (C21 - C35)		
Screening Criteria (mg/kg)									
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SB-103	SB103-38-051723	38	5/17/2023	--			--		
SB-103	SB103-43-051723	43	5/17/2023	--			--		
SB-103	SB103-58-051723	58	5/17/2023	--			--		
SB-103	SB103-68-051323	68	5/17/2023	--			--		
SB-103	SB103-77-052423	77	5/24/2023	--			--		
SB-104	SB104-42-062023	42	6/20/2023	--			--		
SB-104	SB104-57-062023	57	6/20/2023	--			--		
SB-104	SB104-57-062023-DUP	57	6/20/2023	--			--		
SB-104	SB104-65-062023	65	6/20/2023	--			--		
SB-104	SB104-78-062023	78	6/20/2023	--			--		
SB-105	SB105-40-062023	40	6/20/2023	--			--		
SB-105	SB105-55-062023	55	6/20/2023	--			--		
SB-105	SB105-67-062023	67	6/20/2023	--			--		
SB-105	SB105-73-062023	73	6/20/2023	--			--		
SB-106	SB106-39-061923	39	6/19/2023	--			--		
SB-106	SB106-45-061923	45	6/19/2023	--			--		
SB-106	SB106-45-061923-DUP	45	6/19/2023	--			--		
SB-106	SB106-58-061923	58	6/19/2023	--			--		
SB-106	SB106-68-061923	68	6/19/2023	--			--		
SB-106	SB106-77-061923	77	6/19/2023	--			--		
SB-107	SB107-15-061723	15	6/17/2023	--			--		
SB-107	SB107-39-061723	39	6/17/2023	--			--		
SB-107	SB107-58-061723	58	6/17/2023	--			--		
SB-107	SB107-67-061723	67	6/17/2023	--			--		
SB-107	SB107-78-061723	78	6/17/2023	--			--		
SI-AA1	SIAA1-45-051123	45	5/11/2023	--			--		
SI-AA1	SIAA1-50-051123	50	5/11/2023	--			--		
SI-AA1	SIAA1-56-051123	56	5/11/2023	--			--		
SI-AA1	SIAA1-56-051123-DUP	56	5/11/2023	--			--		
SI-AA3	SIAA3-45-051023	45	5/10/2023	--			--		
SI-AA3	SIAA3-56-051023	56	5/10/2023	--			--		
SI-AB0	SIAB0-48-061323	48	6/13/2023	--			--		
SI-AB0	SIAB0-48-061323-DUP	48	6/13/2023	--			--		
SI-AB0	SIAB0-56-061323	56	6/13/2023	--			--		
SI-AC4	SIAC4-41-042523	41	4/25/2023	--			--		
SI-AC4	SIAC4-48-042523	48	4/25/2023	--			--		
SI-AC4	SIAC4-56-042523	56	4/25/2023	--			--		
SI-AD3	SIAD3-47-042623	47	4/26/2023	--			--		
SI-AD3	SIAD3-56-042623	56	4/26/2023	--			--		
SI-AD3	SIAD3-56-042623-DUP	56	4/26/2023	--			--		
SI-AD6	SIAD6-39-032323	39	3/23/2023	--			--		
SI-AD6	SIAD6-49 032323	49	3/23/2023	--			--		
SI-AD6	SIAD6-55-032323	55	3/23/2023	--			--		
SI-AF2	SIAF2-44-051623	44	5/16/2023	--			--		
SI-AF2	SIAF2-49-051623	49	5/16/2023	--			--		
SI-AF3	SIAF3-41-031423	41	3/14/2023	--			--		
SI-AF3	SIAF3-47-031423	47	3/14/2023	--			--		
SI-AF3	SIAF3-55-031423	55	3/14/2023	--			--		
SI-AG7	SIAG7-39-022023	39	2/20/2023	--			--		
SI-AG7	SIAG7-43-022023	43	2/20/2023	--			--		
SI-AG7	SIAG7-55-022123	55	2/21/2023	--			--		
SI-AI7	SIAI7-38-052023	38	5/20/2023	--			--		
SI-AI7	SIAI7-48-052023	48	5/20/2023	--			--		
SI-AI7	SIAI7-55-052023	55	5/20/2023	--			--		
SI-AJ6	SIAJ6-40-032123	40	3/21/2023	--			--		
SI-AJ6	SIAJ6-48-032123	48	3/21/2023	--			--		
SI-AJ6	SIAJ6-56-032123	56	3/21/2023	--			--		

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Table 3
Pre-SEE Soil Analytical Results

				Diesel Range Organics (C10 - C28)			Oil Range Organics (C21 - C35)		
Screening Criteria (mg/kg)									
Location	Sample ID	Depth (ft bgs)	Sample Date	Result (mg/kg)	Lab Quals	AECOM Quals	Result (mg/kg)	Lab Quals	AECOM Quals
SI-BC1	SIBC1-40-051323	40	5/13/2023	--			--		
SI-BC1	SIBC1-49-051323	49	5/13/2023	--			--		
SI-BC1	SIBC1-49-051323-DUP	49	5/13/2023	--			--		
SI-BC1	SIBC1-56-051323	56	5/13/2023	--			--		
SI-BD2	SIBD2-46-032723	46	3/27/2023	--			--		
SI-BD2	SIBD2-53-032723	53	3/27/2023	--			--		
SI-BD2	SIBD2-56-032723	56	3/27/2023	--			--		
SI-BD3	SIBD3-48-062223	48	6/22/2023	--			--		
SI-BD3	SIBD3-48-062223-DUP	48	6/22/2023	--			--		
SI-BD3	SIBD3-30-62223	30	6/22/2023	--			--		
SI-BD3	SIBD3-57-062223	57	6/22/2023	--			--		
SI-BE2	SIBE2-47-032923	47	3/29/2023	--			--		
SI-BE2	SIBE2-53-032923	53	3/29/2023	--			--		
SI-BE2	SIBE2-56-032923	56	3/29/2023	--			--		
SI-BE4	SIBE4-39-061523	39	6/15/2023	--			--		
SI-BE4	SIBE4-49-061523	49	6/15/2023	--			--		
SI-BE4	SIBE4-55-061523	55	6/15/2023	--			--		
SI-BF1	SIBF1-48-051223	48	5/12/2023	--			--		
SI-BF1	SIBF1-48-051223-DUP	48	5/12/2023	--			--		
SI-BF1	SIBF1-56-051223	56	5/12/2023	--			--		
SI-BF3	SIBF3-48-062923	48	6/29/2023	--			--		
SI-BF3	SIBF3-48-062923-DUP	48	6/29/2023	--			--		
SI-BF3	SIBF3-56-062923	56	6/29/2023	--			--		
SI-BH3	SIBH3-48-071423	48	7/14/2023	--			--		
SI-BH3	SIBH3-56-071123	56	7/14/2023	--			--		
T-AB2	TAB2-48-061523	48	6/15/2023	--			--		
T-AB2	TAB2-59-061523	59	6/15/2023	--			--		
T-BG2	TBG2-48-071123	48	7/11/2023	--			--		
T-BG2	TBG2-59-071123	59	7/11/2023	--			--		
T-BG2	TBG2-59-071123-DUP	59	7/11/2023	--			--		
X-AD2	XAD2-49-052323	49	5/23/2023	--			--		
X-AD2	XAD2-49-052323-DUP	49	5/23/2023	--			--		
X-AD2	XAD2-58-052323	58	5/23/2023	--			--		
X-AE4	XAE4-40-030223	40	3/2/2023	--			**22.2**		
X-AE4	XAE4-40-030223-DUP	40	3/2/2023	--			**19.7**		
X-AE4	XAE4-48-030223	48	3/2/2023	--			**< 13.5**	**U**	
X-AE4	XAE4-52-030223	52	3/2/2023	--			**< 13.2**	**U**	
X-AF6	XAF6-40-022723	40	2/27/2023	--			--		
X-AF6	XAF6-40-022723-DUP	40	2/27/2023	--			--		
X-AF6	XAF6-47-022723	47	2/27/2023	--			--		
X-AF6	XAF6-58-022723	58	2/27/2023	--			--		
X-AG5	XAG5-40-031823	40	3/18/2023	--			--		
X-AG5	XAG5-49-031823	49	3/18/2023	--			--		
X-AG5	XAG5-56-031823	56	3/18/2023	--			--		
X-AJ8	XAJ8-38-042223	38	4/22/2023	--			--		
X-AJ8	XAJ8-46-042223	46	4/22/2023	--			--		
X-AJ8	XAJ8-46-042223-DUP	46	4/22/2023	--			--		
X-AJ8	XAJ8-57-042223	57	4/22/2023	--			--		
X-BB2	XBB2-4-030123	4	3/1/2023	--			--		
X-BB2	XBB2-9-030123	9	3/1/2023	--			--		
X-BB2	XBB2-38-051823	38	5/18/2023	--			--		
X-BB2	XBB2-47-051823	47	5/18/2023	--			--		
X-BB2	XBB2-47-051823-DUP	47	5/18/2023	--			--		
X-BC3	XBC3-4-022423	4	2/24/2023	--			--		
X-BC3	XBC3-9-022423	9	2/24/2023	--			--		
X-BC3	XBC3-38-062123	38	6/21/2023	--			**< 13.1**	**U**	
X-BC3	XBC3-47-062123	47	6/21/2023	--			--		
X-BC3	XBC3-58-062123	58	6/21/2023	--			--		

Notes

Screening criteria are from 35 I A.C 742 (TACO) Appendix B, Table A - Tier 1 Soil Remediation Objectives for Residential Properties. The lowest applicable value was selected for each analyte.

Blank screening criteria cell indicates analyte does not have a screening criterion.

Analyses performed on Pre-SEE soil samples varied over the course of construction/installation efforts. See Section 5.2 (Pre-SEE Soil Samples) for further explanation.

Method 8015B OA-2 does not analyze for a specific carbon range in the same manner as GRO or DRO. OA-2 is based on pattern recognition. Kerosene and diesel fuel can be difficult to distinguish.

Indicates an exceedance of screening criteria.

-- Empty cell without a value indicates result was rejected or the analyte was not analyzed.

Bold results are detections above the reporting limit (RL), or estimated detections between the method detection limit (MDL) and RL.

< # ## Gray text indicates the analyte was not detected above the given reporting limit.

LABORATORY QUALIFIERS

U = The analyte was not detected above the reportling limit.

J = The analyte was detected below the reporting limit. Result is estimated.

B = Target analyte was identified in the method blank, indicating possible lab contamination.

H = Analyzed or extracted out of holding time criteria.

F1 = Indicates matrix spike/matrix spike duplicate (MS/MSD) is outside acceptance limit.

F2 = Indicates MS/MSD RPD exceeds control limits

S = Spike recovery outside recovery limits

= Unknown hydrocarbon

*+ = Indicates laboratory control spike (LCS) and/or LCS duplicate (LCSD) is outside acceptance limit, high biased

*1 = LCS/LCSD relative percent difference (RPD) is outside contol limit

AECOM QUALIFIERS

J = The result is estimated.

UJ = Estimated non-detect.

U = Result is non-detect.

R = RPD outside accepted recovery limits

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	Benzene			Bromodichloromethane			Bromoform			Bromomethane			1,3-Butadiene			Butane			Carbon Tetrachloride			Chlorobenzene		
				0.37			450000			11			6.9									0.21			69		
				Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	**0.0021**	**J**		< 0.0075	**U**		< 0.012	**U**		< 0.043	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0070	**U**		< 0.0052	**U**	
SVP-01	20	SVP-01-20-020623	2/6/2023	**0.00083**	**J**		< 0.0075	**U**		< 0.012	**U**		< 0.043	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0070	**U**		< 0.0052	**U**	
SVP-01	30	SVP-01-30-020623	2/6/2023	< 0.0039	**U**		< 0.0082	**U**		< 0.013	**U**		< 0.048	**U**		< 0.0027	**U**		< 0.012	**U**		< 0.0077	**U**		< 0.0057	**U**	
SVP-02	10	SVP-02-10-020623	2/6/2023	< 0.0037	**U**		< 0.0078	**U**		< 0.012	**U**		< 0.045	**U**		< 0.0026	**U**		< 0.011	**U**		< 0.0074	**U**		< 0.0054	**U**	
SVP-02	20	SVP-02-20-020623	2/6/2023	< 0.0038	**U**		< 0.0080	**U**		< 0.012	**U**		< 0.047	**U**		< 0.0026	**U**		< 0.011	**U**		< 0.0076	**U**		< 0.0055	**U**	
SVP-02	30	SVP-02-30-020623	2/6/2023	< 0.0036	**U**		< 0.0077	**U**		< 0.012	**U**		< 0.044	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0072	**U**		< 0.0053	**U**	
SVP-03	10	SVP-03-10-020323	2/3/2023	< 0.0032	**U**		< 0.0068	**U**		< 0.01	**U**		< 0.039	**U**		< 0.0022	**U**		< 0.0096	**U**		< 0.0064	**U**		< 0.0046	**U**	
SVP-03	20	SVP-03-20-020323	2/3/2023	< 0.0032	**U**		< 0.0068	**U**		< 0.01	**U**		< 0.039	**U**		< 0.0022	**U**		< 0.0096	**U**		< 0.0064	**U**		< 0.0046	**U**	
SVP-03	30	SVP-03-30-020323	2/3/2023	< 0.0035	**U**		< 0.0073	**U**		< 0.011	**U**		< 0.042	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0069	**U**		< 0.0050	**U**	
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	< 0.0036	**U**		< 0.0075	**U**		< 0.012	**U**		< 0.043	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0070	**U**		< 0.0052	**U**	
SVP-04	10	SVP-04-10-020223	2/2/2023	< 0.0033	**U**		< 0.0069	**U**		< 0.01	**U**		< 0.04	**U**		< 0.0023	**U**		< 0.0097	**U**		< 0.0064	**U**		< 0.0047	**U**	
SVP-04	20	SVP-04-20-020223	2/2/2023	< 0.0032	**U**		< 0.0067	**U**		< 0.01	**U**		< 0.039	**U**		< 0.0022	**U**		< 0.0095	**U**		< 0.0063	**U**		< 0.0046	**U**	
SVP-04	30	SVP-04-30-020223	2/2/2023	< 0.0032	**U**		< 0.0066	**U**		< 0.01	**U**		< 0.038	**U**		< 0.0022	**U**		< 0.0094	**U**		< 0.0062	**U**		< 0.0046	**U**	
SVP-05	10	SVP-05-10-020223	2/2/2023	< 0.0037	**U**		< 0.0078	**U**		< 0.012	**U**		< 0.045	**U**		< 0.0026	**U**		< 0.011	**U**		< 0.0073	**U**		< 0.0053	**U**	
SVP-05	20	SVP-05-20-020223	2/2/2023	< 0.0034	**U**		< 0.0071	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0067	**U**		< 0.0049	**U**	
SVP-05	30	SVP-05-30-020223	2/2/2023	< 0.0034	**U**		< 0.0071	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	< 0.0034	**U**		< 0.0071	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-06	10	SVP-06-10-020223	2/2/2023	< 0.0033	**U**		< 0.0070	**U**		< 0.011	**U**		< 0.04	**U**		< 0.0023	**U**		< 0.0099	**U**		< 0.0065	**U**		< 0.0048	**U**	
SVP-06	20	SVP-06-20-020223	2/2/2023	< 0.0033	**U**		< 0.0069	**U**		< 0.01	**U**		< 0.04	**U**		< 0.0023	**U**		< 0.0097	**U**		< 0.0064	**U**		< 0.0047	**U**	
SVP-06	30	SVP-06-30-020223	2/2/2023	< 0.0034	**U**		< 0.0072	**U**		< 0.011	**U**		< 0.042	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0067	**U**		< 0.0049	**U**	
SVP-07	10	SVP-07-10-020223	2/2/2023	< 0.0031	**U**		< 0.0065	**U**		< 0.01	**U**		< 0.037	**U**		< 0.0021	**U**		< 0.0092	**U**		< 0.0061	**U**		< 0.0044	**U**	
SVP-07	20	SVP-07-20-020223	2/2/2023	< 0.0036	**U**		< 0.0075	**U**		< 0.012	**U**		< 0.044	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0071	**U**		< 0.0052	**U**	
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	< 0.0036	**U**		< 0.0076	**U**		< 0.012	**U**		< 0.044	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0071	**U**		< 0.0052	**U**	
SVP-07	30	SVP-07-30-020223	2/2/2023	< 0.0034	**U**		**0.0015**	**J**		< 0.011	**U**		< 0.041	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0067	**U**		< 0.0049	**U**	
SVP-08	10	SVP-08-10-020623	2/6/2023	< 0.0034	**U**		< 0.0070	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-08	20	SVP-08-20-020623	2/6/2023	< 0.0034	**U**		< 0.0070	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-08	30	SVP-08-30-020623	2/6/2023	**0.0014**	**J**		< 0.0077	**U**		< 0.012	**U**		< 0.044	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0072	**U**		< 0.0053	**U**	
SVP-09	10	SVP-09-10-020623	2/6/2023	< 0.0034	**U**		< 0.0072	**U**		< 0.011	**U**		< 0.042	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0067	**U**		< 0.0049	**U**	
SVP-09	20	SVP-09-20-020623	2/6/2023	< 0.0036	**U**		< 0.0075	**U**		< 0.012	**U**		< 0.043	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0070	**U**		< 0.0052	**U**	
SVP-09	30	SVP-09-30-020623	2/6/2023	< 0.0035	**U**		< 0.0073	**U**		< 0.011	**U**		< 0.042	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0069	**U**		< 0.0050	**U**	
SVP-10	10	SVP-10-10-020323	2/3/2023	< 0.0031	**U**		< 0.0065	**U**		< 0.01	**U**		< 0.038	**U**		< 0.0021	**U**		< 0.0092	**U**		< 0.0061	**U**		< 0.0045	**U**	
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	< 0.0030	**U**		< 0.0064	**U**		< 0.0098	**U**		< 0.037	**U**		< 0.0021	**U**		< 0.0090	**U**		< 0.0060	**U**		< 0.0044	**U**	
SVP-10	20	SVP-10-20-020323	2/3/2023	< 0.0034	**U**		< 0.0070	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-10	30	SVP-10-30-020323	2/3/2023	**0.0038**			< 0.0068	**U**		< 0.01	**U**		< 0.039	**U**		< 0.0022	**U**		< 0.0096	**U**		< 0.0064	**U**		< 0.0046	**U**	
SVP-11	10	SVP-11-10-020323	2/3/2023	< 0.0034	**U**		< 0.0070	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-11	20	SVP-11-20-020323	2/3/2023	< 0.0033	**U**		< 0.0069	**U**		< 0.011	**U**		< 0.04	**U**		< 0.0023	**U**		< 0.0098	**U**		< 0.0065	**U**		< 0.0047	**U**	
SVP-11	30	SVP-11-30-020323	2/3/2023	**0.0091**			< 0.0070	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0066	**U**		< 0.0048	**U**	
SVP-12	10	SVP-12-10-020223	2/2/2023	< 0.0036	**U**		< 0.0076	**U**		< 0.012	**U**		< 0.044	**U**		< 0.0025	**U**		< 0.011	**U**		< 0.0072	**U**		< 0.0052	**U**	
SVP-12	20	SVP-12-20-020223	2/2/2023	**0.0028**	**J**		< 0.0073	**U**		< 0.011	**U**		< 0.042	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0068	**U**		< 0.0050	**U**	
SVP-12	30	SVP-12-30-020223	2/2/2023	< 0.0035	**U**		< 0.0074	**U**		< 0.011	**U**		< 0.043	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0070	**U**		< 0.0051	**U**	
SVP-13	10	SVP-13-10-020223	2/2/2023	**0.0024**	**J**		< 0.0070	**U**		< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		**0.015**			< 0.0066	**U**		< 0.0048	**U**	
SVP-13	20	SVP-13-20-020223	2/2/2023	**0.0025**	**J**		**0.013**			< 0.011	**U**		< 0.043	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0070	**U**		< 0.0051	**U**	
SVP-13	30	SVP-13-30-020223	2/2/2023	< 0.0034	**U**		**0.0089**			< 0.011	**U**		< 0.041	**U**		< 0.0024	**U**		< 0.01	**U**		< 0.0067	**U**		< 0.0049	**U**	
SVP-14	10	SVP-14-10-020223	2/2/2023	< 0.0030	**U**		**0.3**			< 0.0097	**U**		< 0.036	**U**		< 0.0021	**U**		< 0.0089	**U**		**0.0084**			< 0.0043	**U**	
SVP-14	20	SVP-14-20-020223	2/2/2023	< 0.0031	**U**		**0.24**			< 0.01	**U**		< 0.037	**U**		< 0.0021	**U**		< 0.0092	**U**		**0.0037**	**J**		< 0.0044	**U**	
SVP-14	30	SVP-14-30-020223	2/2/2023	< 0.0034	**U**		**0.029**			< 0.011	**U**		< 0.041	**U**		< 0.0023	**U**		< 0.01	**U**		< 0.0067	**U**		< 0.0049	**U**	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	Chloroform			Chloromethane			alpha-Chlorotoluene			1,2-Dibromoethane (EDB)			1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,2-Dichloroethane		
				0.11									0.0078						1200			270			0.099		
				Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	< 0.0055	U		< 0.023	U		< 0.0058	U		< 0.0086	U		< 0.0067	U		< 0.0067	U		0.0030	J		< 0.0045	U	
SVP-01	20	SVP-01-20-020623	2/6/2023	< 0.0055	U		< 0.023	U		< 0.0058	U		< 0.0086	U		< 0.0067	U		< 0.0067	U		0.0029	J		< 0.0045	U	
SVP-01	30	SVP-01-30-020623	2/6/2023	< 0.0060	U		< 0.025	U		< 0.0064	U		< 0.0094	U		< 0.0074	U		< 0.0074	U		0.0028	J		< 0.0050	U	
SVP-02	10	SVP-02-10-020623	2/6/2023	< 0.0057	U		< 0.024	U		< 0.0060	U		< 0.0090	U		< 0.0070	U		< 0.0070	U		0.0028	J		< 0.0047	U	
SVP-02	20	SVP-02-20-020623	2/6/2023	< 0.0058	U		< 0.025	U		< 0.0062	U		< 0.0092	U		< 0.0072	U		< 0.0072	U		0.0031	J		< 0.0048	U	
SVP-02	30	SVP-02-30-020623	2/6/2023	< 0.0056	U		< 0.024	U		< 0.0059	U		< 0.0088	U		< 0.0069	U		< 0.0069	U		0.0029	J		< 0.0046	U	
SVP-03	10	SVP-03-10-020323	2/3/2023	< 0.0049	U		< 0.021	U		< 0.0052	U		< 0.0078	U		< 0.0061	U		< 0.0061	U		0.0028	J		< 0.0041	U	
SVP-03	20	SVP-03-20-020323	2/3/2023	< 0.0049	U		< 0.021	U		< 0.0052	U		< 0.0078	U		< 0.0061	U		< 0.0061	U		0.0031	J		< 0.0041	U	
SVP-03	30	SVP-03-30-020323	2/3/2023	< 0.0053	U		< 0.023	U		< 0.0057	U		< 0.0084	U		< 0.0066	U		< 0.0066	U		0.0029	J		< 0.0044	U	
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	< 0.0055	U		< 0.023	U		< 0.0058	U		< 0.0086	U		< 0.0067	U		< 0.0067	U		0.0029	J		< 0.0045	U	
SVP-04	10	SVP-04-10-020223	2/2/2023	< 0.0050	U		< 0.021	U		< 0.0053	U		< 0.0079	U		< 0.0062	U		< 0.0062	U		0.0027	J		< 0.0041	U	
SVP-04	20	SVP-04-20-020223	2/2/2023	< 0.0048	U		< 0.02	U		< 0.0052	U		< 0.0076	U		< 0.0060	U		< 0.0060	U		0.0032	J		< 0.0040	U	
SVP-04	30	SVP-04-30-020223	2/2/2023	< 0.0048	U		< 0.02	U		< 0.0051	U		< 0.0076	U		< 0.0060	U		< 0.0060	U		0.0031	J		< 0.0040	U	
SVP-05	10	SVP-05-10-020223	2/2/2023	< 0.0057	U		< 0.024	U		< 0.0060	U		< 0.0089	U		< 0.0070	U		< 0.0070	U		< 0.0057	U		< 0.0047	U	
SVP-05	20	SVP-05-20-020223	2/2/2023	< 0.0052	U		< 0.022	U		< 0.0055	U		< 0.0082	U		< 0.0064	U		< 0.0064	U		0.0028	J		< 0.0043	U	
SVP-05	30	SVP-05-30-020223	2/2/2023	< 0.0052	U		< 0.022	U		< 0.0055	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0024	J		< 0.0043	U	
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	< 0.0052	U		< 0.022	U		< 0.0055	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0029	J		< 0.0043	U	
SVP-06	10	SVP-06-10-020223	2/2/2023	< 0.0051	U		< 0.021	U		< 0.0054	U		< 0.0080	U		< 0.0062	U		< 0.0062	U		0.0029	J		< 0.0042	U	
SVP-06	20	SVP-06-20-020223	2/2/2023	0.0092			< 0.021	U		< 0.0053	U		< 0.0079	U		< 0.0062	U		< 0.0062	U		< 0.0051	U		< 0.0041	U	
SVP-06	30	SVP-06-30-020223	2/2/2023	0.0028	J		< 0.022	U		< 0.0055	U		< 0.0082	U		< 0.0064	U		< 0.0064	U		< 0.0053	U		< 0.0043	U	
SVP-07	10	SVP-07-10-020223	2/2/2023	0.0012	J		< 0.02	U		< 0.0050	U		< 0.0074	U		< 0.0058	U		< 0.0058	U		0.0021	J		< 0.0039	U	
SVP-07	20	SVP-07-20-020223	2/2/2023	0.014			< 0.023	U		< 0.0058	U		< 0.0086	U		< 0.0068	U		< 0.0068	U		0.0030	J		< 0.0046	U	
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	0.013			< 0.023	U		< 0.0058	U		< 0.0087	U		< 0.0068	U		< 0.0068	U		0.0026	J		< 0.0046	U	
SVP-07	30	SVP-07-30-020223	2/2/2023	0.014			< 0.022	U		< 0.0055	U		< 0.0082	U		< 0.0064	U		< 0.0064	U		0.0031	J		< 0.0043	U	
SVP-08	10	SVP-08-10-020623	2/6/2023	< 0.0051	U		< 0.022	U		< 0.0054	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0027	J		< 0.0042	U	
SVP-08	20	SVP-08-20-020623	2/6/2023	< 0.0051	U		< 0.022	U		< 0.0054	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0030	J		< 0.0042	U	
SVP-08	30	SVP-08-30-020623	2/6/2023	< 0.0056	U		< 0.024	U		< 0.0059	U		< 0.0088	U		< 0.0069	U		< 0.0069	U		0.0025	J		< 0.0046	U	
SVP-09	10	SVP-09-10-020623	2/6/2023	< 0.0052	U		< 0.022	U		< 0.0055	U		< 0.0082	U		< 0.0064	U		< 0.0064	U		0.0033	J		< 0.0043	U	
SVP-09	20	SVP-09-20-020623	2/6/2023	< 0.0055	U		< 0.023	U		< 0.0058	U		< 0.0086	U		< 0.0067	U		< 0.0067	U		0.0029	J		< 0.0045	U	
SVP-09	30	SVP-09-30-020623	2/6/2023	< 0.0053	U		< 0.023	U		< 0.0057	U		< 0.0084	U		< 0.0066	U		< 0.0066	U		0.0030	J		< 0.0044	U	
SVP-10	10	SVP-10-10-020323	2/3/2023	< 0.0047	U		< 0.02	U		< 0.0050	U		< 0.0074	U		< 0.0058	U		< 0.0058	U		0.0024	J		< 0.0039	U	
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	< 0.0046	U		< 0.02	U		< 0.0049	U		< 0.0073	U		< 0.0057	U		< 0.0057	U		0.0021	J		< 0.0038	U	
SVP-10	20	SVP-10-20-020323	2/3/2023	< 0.0051	U		< 0.022	U		< 0.0054	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		< 0.0052	U		< 0.0042	U	
SVP-10	30	SVP-10-30-020323	2/3/2023	< 0.0049	U		< 0.021	U		< 0.0052	U		< 0.0078	U		< 0.0061	U		< 0.0061	U		< 0.0050	U		< 0.0041	U	
SVP-11	10	SVP-11-10-020323	2/3/2023	< 0.0051	U		< 0.022	U		< 0.0054	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0023	J		< 0.0042	U	
SVP-11	20	SVP-11-20-020323	2/3/2023	< 0.0050	U		< 0.021	U		< 0.0053	U		< 0.0079	U		< 0.0062	U		< 0.0062	U		0.0022	J		< 0.0042	U	
SVP-11	30	SVP-11-30-020323	2/3/2023	< 0.0051	U		< 0.022	U		< 0.0054	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0023	J		< 0.0042	U	
SVP-12	10	SVP-12-10-020223	2/2/2023	< 0.0056	U		< 0.024	U		< 0.0059	U		< 0.0088	U		< 0.0068	U		< 0.0068	U		0.0023	J		< 0.0046	U	
SVP-12	20	SVP-12-20-020223	2/2/2023	< 0.0053	U		< 0.022	U		< 0.0056	U		< 0.0084	U		< 0.0066	U		< 0.0066	U		0.0026	J		< 0.0044	U	
SVP-12	30	SVP-12-30-020223	2/2/2023	< 0.0054	U		< 0.023	U		< 0.0057	U		< 0.0085	U		< 0.0067	U		< 0.0067	U		0.0024	J		< 0.0045	U	
SVP-13	10	SVP-13-10-020223	2/2/2023	0.0030	J		< 0.022	U		< 0.0054	U		< 0.0081	U		< 0.0063	U		< 0.0063	U		0.0021	J		< 0.0042	U	
SVP-13	20	SVP-13-20-020223	2/2/2023	0.092			< 0.023	U		< 0.0057	U		< 0.0085	U		< 0.0067	U		< 0.0067	U		0.0024	J		< 0.0045	U	
SVP-13	30	SVP-13-30-020223	2/2/2023	0.044			< 0.022	U		< 0.0055	U		< 0.0082	U		< 0.0064	U		< 0.0064	U		0.0022	J		< 0.0043	U	
SVP-14	10	SVP-14-10-020223	2/2/2023	1.4			< 0.019	U		< 0.0049	U		< 0.0072	U		< 0.0056	U		< 0.0056	U		0.0025	J		< 0.0038	U	
SVP-14	20	SVP-14-20-020223	2/2/2023	1.1			< 0.02	U		< 0.0050	U		< 0.0074	U		< 0.0058	U		< 0.0058	U		< 0.0048	U		< 0.0039	U	
SVP-14	30	SVP-14-30-020223	2/2/2023	0.16			< 0.022	U		< 0.0055	U		< 0.0081	U		< 0.0064	U		< 0.0064	U		0.0021	J		< 0.0043	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	Dichloromethane (Methylene Chloride)			1,2-Dichloropropane			cis-1,3-Dichloropropene			trans-1,3-Dichloropropene			1,4-Dioxane			Ethanol			Ethylbenzene			4-Ethyltoluene		
				5.6			0.31									0.22						1.3					
				Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	< 0.039	U		< 0.0052	U		< 0.0051	U		< 0.0051	U		< 0.016	U		< 0.021	U		0.0059			< 0.0055	U	
SVP-01	20	SVP-01-20-020623	2/6/2023	< 0.039	U		< 0.0052	U		< 0.0051	U		< 0.0051	U		< 0.016	U		< 0.021	U		0.0011	J		< 0.0055	U	
SVP-01	30	SVP-01-30-020623	2/6/2023	< 0.043	U		< 0.0057	U		< 0.0056	U		< 0.0056	U		< 0.018	U		< 0.023	U		< 0.0053	U		< 0.0060	U	
SVP-02	10	SVP-02-10-020623	2/6/2023	< 0.041	U		< 0.0054	U		< 0.0053	U		< 0.0053	U		< 0.017	U		< 0.022	U		< 0.0051	U		< 0.0058	U	
SVP-02	20	SVP-02-20-020623	2/6/2023	< 0.042	U		< 0.0055	U		< 0.0054	U		< 0.0054	U		< 0.017	U		< 0.023	U		< 0.0052	U		< 0.0059	U	
SVP-02	30	SVP-02-30-020623	2/6/2023	< 0.04	U		< 0.0053	U		< 0.0052	U		< 0.0052	U		< 0.016	U		< 0.022	U		< 0.0050	U		< 0.0056	U	
SVP-03	10	SVP-03-10-020323	2/3/2023	< 0.035	U		< 0.0047	U		< 0.0046	U		< 0.0046	U		< 0.014	U		< 0.019	U		< 0.0044	U		< 0.0050	U	
SVP-03	20	SVP-03-20-020323	2/3/2023	< 0.035	U		< 0.0047	U		< 0.0046	U		< 0.0046	U		< 0.014	U		< 0.019	U		< 0.0044	U		< 0.0050	U	
SVP-03	30	SVP-03-30-020323	2/3/2023	< 0.038	U		< 0.0051	U		< 0.0050	U		< 0.0050	U		< 0.016	U		< 0.021	U		< 0.0048	U		< 0.0054	U	
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	< 0.039	U		< 0.0052	U		< 0.0051	U		< 0.0051	U		< 0.016	U		< 0.021	U		< 0.0049	U		< 0.0055	U	
SVP-04	10	SVP-04-10-020223	2/2/2023	< 0.036	U		< 0.0047	U		< 0.0046	U		< 0.0046	U		< 0.015	U		< 0.019	U		< 0.0044	U		< 0.0050	U	
SVP-04	20	SVP-04-20-020223	2/2/2023	< 0.034	U		< 0.0046	U		< 0.0045	U		< 0.0045	U		< 0.014	U		< 0.019	U		< 0.0043	U		< 0.0049	U	
SVP-04	30	SVP-04-30-020223	2/2/2023	< 0.034	U		< 0.0046	U		< 0.0045	U		< 0.0045	U		< 0.014	U		< 0.019	U		< 0.0043	U		< 0.0049	U	
SVP-05	10	SVP-05-10-020223	2/2/2023	< 0.04	U		< 0.0054	U		< 0.0053	U		< 0.0053	U		< 0.017	U		< 0.022	U		< 0.0050	U		< 0.0057	U	
SVP-05	20	SVP-05-20-020223	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-05	30	SVP-05-30-020223	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-06	10	SVP-06-10-020223	2/2/2023	< 0.036	U		< 0.0048	U		< 0.0047	U		< 0.0047	U		< 0.015	U		< 0.02	U		< 0.0045	U		< 0.0051	U	
SVP-06	20	SVP-06-20-020223	2/2/2023	< 0.036	U		< 0.0047	U		< 0.0046	U		< 0.0046	U		< 0.015	U		< 0.019	U		< 0.0044	U		< 0.0050	U	
SVP-06	30	SVP-06-30-020223	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0053	U	
SVP-07	10	SVP-07-10-020223	2/2/2023	< 0.034	U		< 0.0044	U		< 0.0044	U		< 0.0044	U		< 0.014	U		< 0.018	U		< 0.0042	U		< 0.0047	U	
SVP-07	20	SVP-07-20-020223	2/2/2023	< 0.039	U		< 0.0052	U		< 0.0051	U		< 0.0051	U		< 0.016	U		< 0.021	U		< 0.0049	U		< 0.0055	U	
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	< 0.039	U		< 0.0052	U		< 0.0051	U		< 0.0051	U		< 0.016	U		< 0.021	U		< 0.0049	U		< 0.0056	U	
SVP-07	30	SVP-07-30-020223	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-08	10	SVP-08-10-020623	2/6/2023	< 0.036	U		< 0.0048	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-08	20	SVP-08-20-020623	2/6/2023	< 0.036	U		< 0.0048	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		0.0012	J		< 0.0052	U	
SVP-08	30	SVP-08-30-020623	2/6/2023	< 0.04	U		< 0.0053	U		< 0.0052	U		< 0.0052	U		< 0.016	U		< 0.022	U		0.0019	J		< 0.0056	U	
SVP-09	10	SVP-09-10-020623	2/6/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0053	U	
SVP-09	20	SVP-09-20-020623	2/6/2023	< 0.039	U		< 0.0052	U		< 0.0051	U		< 0.0051	U		< 0.016	U		< 0.021	U		< 0.0049	U		< 0.0055	U	
SVP-09	30	SVP-09-30-020623	2/6/2023	< 0.038	U		< 0.0051	U		< 0.0050	U		< 0.0050	U		< 0.016	U		< 0.021	U		< 0.0048	U		< 0.0054	U	
SVP-10	10	SVP-10-10-020323	2/3/2023	< 0.034	U		< 0.0045	U		< 0.0044	U		< 0.0044	U		< 0.014	U		< 0.018	U		< 0.0042	U		< 0.0048	U	
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	< 0.033	U		< 0.0044	U		< 0.0043	U		< 0.0043	U		< 0.014	U		< 0.018	U		< 0.0041	U		< 0.0047	U	
SVP-10	20	SVP-10-20-020323	2/3/2023	< 0.036	U		< 0.0048	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-10	30	SVP-10-30-020323	2/3/2023	< 0.035	U		< 0.0047	U		< 0.0046	U		< 0.0046	U		< 0.014	U		< 0.019	U		0.012			< 0.0050	U	
SVP-11	10	SVP-11-10-020323	2/3/2023	< 0.036	U		< 0.0048	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	
SVP-11	20	SVP-11-20-020323	2/3/2023	< 0.036	U		< 0.0048	U		< 0.0047	U		< 0.0047	U		< 0.015	U		< 0.019	U		< 0.0045	U		< 0.0051	U	
SVP-11	30	SVP-11-30-020323	2/3/2023	< 0.036	U		< 0.0048	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		0.033			0.011		
SVP-12	10	SVP-12-10-020223	2/2/2023	< 0.04	U		< 0.0053	U		< 0.0052	U		< 0.0052	U		< 0.016	U		< 0.021	U		< 0.0049	U		< 0.0056	U	
SVP-12	20	SVP-12-20-020223	2/2/2023	< 0.038	U		< 0.0050	U		< 0.0049	U		< 0.0049	U		< 0.016	U		< 0.02	U		0.0077			< 0.0054	U	
SVP-12	30	SVP-12-30-020223	2/2/2023	< 0.038	U		< 0.0051	U		< 0.0050	U		< 0.0050	U		< 0.016	U		< 0.021	U		0.0013	J		< 0.0054	U	
SVP-13	10	SVP-13-10-020223	2/2/2023	< 0.036	U		< 0.0048	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		0.0064			< 0.0052	U	
SVP-13	20	SVP-13-20-020223	2/2/2023	< 0.038	U		< 0.0051	U		< 0.0050	U		< 0.0050	U		< 0.016	U		< 0.021	U		0.0031	J		< 0.0054	U	
SVP-13	30	SVP-13-30-020223	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		0.0017	J		< 0.0052	U	
SVP-14	10	SVP-14-10-020223	2/2/2023	0.0028	J		< 0.0043	U		< 0.0043	U		< 0.0043	U		< 0.014	U		< 0.018	U		< 0.0041	U		< 0.0046	U	
SVP-14	20	SVP-14-20-020223	2/2/2023	0.0040	J		< 0.0044	U		< 0.0044	U		< 0.0044	U		< 0.014	U		< 0.018	U		< 0.0042	U		< 0.0047	U	
SVP-14	30	SVP-14-30-020223	2/2/2023	< 0.037	U		< 0.0049	U		< 0.0048	U		< 0.0048	U		< 0.015	U		< 0.02	U		< 0.0046	U		< 0.0052	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	Freon 114 (Dichlorotetrafluoroethane)			Heptane			Hexachlorobutadiene			Hexane			2-Hexanone (Methyl N-Butyl Ketone)			Isopentane			2-Propanol			1,1,2,2-Tetrachloroethane		
				Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	< 0.0078	U		0.014			< 0.048	U		0.029			< 0.018	U		0.02			0.0047	J	J	< 0.0077	U	
SVP-01	20	SVP-01-20-020623	2/6/2023	< 0.0078	U		0.0015	J		< 0.048	U		0.0034	J		< 0.018	U		< 0.013	U		0.0049	J	J	< 0.0077	U	
SVP-01	30	SVP-01-30-020623	2/6/2023	< 0.0086	U		< 0.0050	U		< 0.052	U		< 0.0043	U		< 0.02	U		< 0.014	U		0.0063	J	J	< 0.0084	U	
SVP-02	10	SVP-02-10-020623	2/6/2023	< 0.0082	U		< 0.0048	U		< 0.05	U		< 0.0041	U		< 0.019	U		< 0.014	U		0.0052	J	J	< 0.0080	U	
SVP-02	20	SVP-02-20-020623	2/6/2023	< 0.0084	U		< 0.0049	U		< 0.051	U		< 0.0042	U		< 0.02	U		< 0.014	U		0.0047	J	J	< 0.0082	U	
SVP-02	30	SVP-02-30-020623	2/6/2023	< 0.0080	U		< 0.0047	U		< 0.049	U		< 0.0040	U		< 0.019	U		< 0.014	U		0.0045	J	J	< 0.0079	U	
SVP-03	10	SVP-03-10-020323	2/3/2023	< 0.0071	U		< 0.0041	U		< 0.043	U		< 0.0036	U		< 0.016	U		< 0.012	U		< 0.0099	U		< 0.0069	U	
SVP-03	20	SVP-03-20-020323	2/3/2023	< 0.0071	U		< 0.0041	U		< 0.043	U		< 0.0036	U		< 0.016	U		< 0.012	U		< 0.0099	U		< 0.0069	U	
SVP-03	30	SVP-03-30-020323	2/3/2023	< 0.0076	U		< 0.0045	U		< 0.047	U		< 0.0038	U		< 0.018	U		< 0.013	U		< 0.011	U		< 0.0075	U	
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	< 0.0078	U		< 0.0046	U		< 0.048	U		< 0.0039	U		< 0.018	U		< 0.013	U		< 0.011	U		< 0.0077	U	
SVP-04	10	SVP-04-10-020223	2/2/2023	< 0.0072	U		< 0.0042	U		< 0.044	U		< 0.0036	U		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0070	U	
SVP-04	20	SVP-04-20-020223	2/2/2023	< 0.0070	U		< 0.0041	U		< 0.042	U		< 0.0035	U		< 0.016	U		< 0.012	U		< 0.0098	U		< 0.0068	U	
SVP-04	30	SVP-04-30-020223	2/2/2023	< 0.0069	U		< 0.0040	U		< 0.042	U		< 0.0035	U		< 0.016	U		< 0.012	U		< 0.0097	U		< 0.0068	U	
SVP-05	10	SVP-05-10-020223	2/2/2023	< 0.0081	U		< 0.0048	U		< 0.049	U		< 0.0041	U		< 0.019	U		< 0.014	U		< 0.011	U		< 0.0080	U	
SVP-05	20	SVP-05-20-020223	2/2/2023	< 0.0074	U		< 0.0044	U		< 0.045	U		< 0.0038	U		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0073	U	
SVP-05	30	SVP-05-30-020223	2/2/2023	< 0.0074	U		< 0.0043	U		< 0.045	U		< 0.0037	U		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0072	U	
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	< 0.0074	U		< 0.0043	U		< 0.045	U		< 0.0037	U		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0072	U	
SVP-06	10	SVP-06-10-020223	2/2/2023	< 0.0073	U		< 0.0043	U		< 0.044	U		< 0.0037	U		< 0.017	U		< 0.012	U		0.0060	J		< 0.0071	U	
SVP-06	20	SVP-06-20-020223	2/2/2023	< 0.0072	U		< 0.0042	U		< 0.044	U		< 0.0036	U		< 0.017	U		< 0.012	U		0.0046	J		< 0.0070	U	
SVP-06	30	SVP-06-30-020223	2/2/2023	< 0.0075	U		< 0.0044	U		< 0.046	U		< 0.0038	U		< 0.018	U		< 0.013	U		< 0.01	U		< 0.0073	U	
SVP-07	10	SVP-07-10-020223	2/2/2023	< 0.0067	U		< 0.0040	U		< 0.041	U		< 0.0034	U		< 0.016	U		< 0.011	U		< 0.0095	U		< 0.0066	U	
SVP-07	20	SVP-07-20-020223	2/2/2023	< 0.0079	U		< 0.0046	U		< 0.048	U		< 0.0040	U		< 0.018	U		< 0.013	U		< 0.011	U		< 0.0077	U	
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	< 0.0079	U		< 0.0046	U		< 0.048	U		< 0.0040	U		< 0.018	U		< 0.013	U		< 0.011	U		< 0.0078	U	
SVP-07	30	SVP-07-30-020223	2/2/2023	< 0.0074	U		< 0.0044	U		< 0.045	U		< 0.0038	U		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0073	U	
SVP-08	10	SVP-08-10-020623	2/6/2023	< 0.0073	U		< 0.0043	U		< 0.045	U		< 0.0037	U		< 0.017	U		< 0.012	U		0.0039	J	J	< 0.0072	U	
SVP-08	20	SVP-08-20-020623	2/6/2023	< 0.0073	U		< 0.0043	U		< 0.045	U		< 0.0037	U		< 0.017	U		< 0.012	U		0.0046	J	J	< 0.0072	U	
SVP-08	30	SVP-08-30-020623	2/6/2023	< 0.0080	U		0.0035	J		< 0.049	U		0.0074			< 0.019	U		< 0.014	U		0.0095	J	J	< 0.0079	U	
SVP-09	10	SVP-09-10-020623	2/6/2023	< 0.0075	U		< 0.0044	U		< 0.046	U		< 0.0038	U		< 0.018	U		< 0.013	U		0.0074	J	J	< 0.0073	U	
SVP-09	20	SVP-09-20-020623	2/6/2023	< 0.0078	U		< 0.0046	U		< 0.048	U		< 0.0039	U		< 0.018	U		0.016			0.0077	J	J	< 0.0077	U	
SVP-09	30	SVP-09-30-020623	2/6/2023	< 0.0076	U		< 0.0045	U		< 0.047	U		< 0.0038	U		< 0.018	U		< 0.013	U		0.0048	J	J	< 0.0075	U	
SVP-10	10	SVP-10-10-020323	2/3/2023	< 0.0068	U		< 0.0040	U		< 0.041	U		< 0.0034	U		< 0.016	U		< 0.011	U		< 0.0095	U		< 0.0066	U	
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	< 0.0066	U		< 0.0039	U		< 0.04	U		< 0.0033	U		< 0.016	U		< 0.011	U		< 0.0093	U		< 0.0065	U	
SVP-10	20	SVP-10-20-020323	2/3/2023	< 0.0073	U		< 0.0043	U		< 0.045	U		< 0.0037	U		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0072	U	
SVP-10	30	SVP-10-30-020323	2/3/2023	< 0.0071	U		0.013			< 0.043	U		0.018			< 0.016	U		0.022			< 0.0099	U		< 0.0069	U	
SVP-11	10	SVP-11-10-020323	2/3/2023	< 0.0073	U		0.0016	J		< 0.045	U		0.0053			< 0.017	U		< 0.012	U		0.0034	J		< 0.0072	U	
SVP-11	20	SVP-11-20-020323	2/3/2023	< 0.0072	U		< 0.0042	U		< 0.044	U		0.0013	J		< 0.017	U		0.028			< 0.01	U		< 0.0071	U	
SVP-11	30	SVP-11-30-020323	2/3/2023	< 0.0073	U		0.0025	J		< 0.045	U		0.0050			< 0.017	U		< 0.012	U		0.0035	J		< 0.0072	U	
SVP-12	10	SVP-12-10-020223	2/2/2023	< 0.0080	U		< 0.0047	U		< 0.049	U		< 0.0040	U		< 0.019	U		< 0.013	U		0.0036	J		< 0.0078	U	
SVP-12	20	SVP-12-20-020223	2/2/2023	< 0.0076	U		0.016			< 0.046	U		0.038			< 0.018	U		0.056			0.0066	J		< 0.0075	U	
SVP-12	30	SVP-12-30-020223	2/2/2023	< 0.0078	U		< 0.0045	U		< 0.047	U		< 0.0039	U		< 0.018	U		< 0.013	U		0.0042	J		< 0.0076	U	
SVP-13	10	SVP-13-10-020223	2/2/2023	< 0.0073	U		0.016			< 0.045	U		0.041			< 0.017	U		0.082			< 0.01	U		< 0.0072	U	
SVP-13	20	SVP-13-20-020223	2/2/2023	< 0.0078	U		0.0071			< 0.047	U		0.015			< 0.018	U		0.027			0.0047	J		< 0.0076	U	
SVP-13	30	SVP-13-30-020223	2/2/2023	< 0.0074	U		< 0.0044	U		< 0.045	U		0.0012	J		< 0.017	U		< 0.012	U		< 0.01	U		< 0.0073	U	
SVP-14	10	SVP-14-10-020223	2/2/2023	< 0.0066	U		< 0.0038	U		< 0.04	U		< 0.0033	U		< 0.015	U		< 0.011	U		0.0049	J		< 0.0064	U	
SVP-14	20	SVP-14-20-020223	2/2/2023	< 0.0067	U		< 0.0040	U		< 0.041	U		< 0.0034	U		< 0.016	U		< 0.011	U		< 0.0095	U		< 0.0066	U	
SVP-14	30	SVP-14-30-020223	2/2/2023	< 0.0074	U		< 0.0043	U		< 0.045	U		< 0.0037	U		< 0.017	U		< 0.012	U		0.0036	J		< 0.0073	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	Tetrachloroethene			1,2,4-Trichlorobenzene			1,1,2-Trichloroethane			Trichloroethene			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			2,2,4-Trimethylpentane			Vinyl Chloride		
				0.55			5.4			170000			1.5												0.29		
				Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	< 0.0076	U		< 0.033	U		< 0.0061	U		< 0.0060	U		< 0.0055	U		< 0.0055	U		0.039			< 0.0029	U	
SVP-01	20	SVP-01-20-020623	2/6/2023	< 0.0076	U		< 0.033	U		< 0.0061	U		< 0.0060	U		< 0.0055	U		< 0.0055	U		0.0089			< 0.0029	U	
SVP-01	30	SVP-01-30-020623	2/6/2023	< 0.0083	U		< 0.036	U		< 0.0067	U		< 0.0066	U		< 0.0060	U		< 0.0060	U		< 0.0057	U		< 0.0031	U	
SVP-02	10	SVP-02-10-020623	2/6/2023	< 0.0079	U		< 0.035	U		< 0.0064	U		< 0.0063	U		< 0.0058	U		< 0.0058	U		< 0.0055	U		< 0.0030	U	
SVP-02	20	SVP-02-20-020623	2/6/2023	< 0.0081	U		< 0.036	U		< 0.0065	U		< 0.0064	U		< 0.0059	U		< 0.0059	U		< 0.0056	U		< 0.0031	U	
SVP-02	30	SVP-02-30-020623	2/6/2023	< 0.0078	U		< 0.034	U		< 0.0062	U		< 0.0062	U		< 0.0056	U		< 0.0056	U		< 0.0053	U		< 0.0029	U	
SVP-03	10	SVP-03-10-020323	2/3/2023	< 0.0068	U		< 0.03	U		< 0.0055	U		< 0.0054	U		< 0.0050	U		< 0.0050	U		< 0.0047	U		< 0.0026	U	
SVP-03	20	SVP-03-20-020323	2/3/2023	< 0.0068	U		< 0.03	U		< 0.0055	U		< 0.0054	U		< 0.0050	U		< 0.0050	U		< 0.0047	U		< 0.0026	U	
SVP-03	30	SVP-03-30-020323	2/3/2023	< 0.0074	U		< 0.032	U		< 0.0060	U		0.0014	J		< 0.0054	U		< 0.0054	U		< 0.0051	U		< 0.0028	U	
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	< 0.0076	U		< 0.033	U		< 0.0061	U		< 0.0060	U		< 0.0055	U		< 0.0055	U		< 0.0052	U		< 0.0029	U	
SVP-04	10	SVP-04-10-020223	2/2/2023	< 0.0070	U		< 0.03	U		< 0.0056	U		< 0.0055	U		< 0.0050	U		< 0.0050	U		< 0.0048	U		< 0.0026	U	
SVP-04	20	SVP-04-20-020223	2/2/2023	< 0.0067	U		< 0.03	U		< 0.0054	U		< 0.0053	U		< 0.0049	U		< 0.0049	U		< 0.0046	U		< 0.0025	U	
SVP-04	30	SVP-04-30-020223	2/2/2023	< 0.0067	U		< 0.029	U		< 0.0054	U		< 0.0053	U		< 0.0049	U		< 0.0049	U		< 0.0046	U		< 0.0025	U	
SVP-05	10	SVP-05-10-020223	2/2/2023	< 0.0079	U		< 0.034	U		< 0.0063	U		< 0.0062	U		< 0.0057	U		< 0.0057	U		< 0.0054	U		< 0.0030	U	
SVP-05	20	SVP-05-20-020223	2/2/2023	< 0.0072	U		< 0.032	U		< 0.0058	U		< 0.0057	U		< 0.0052	U		< 0.0052	U		< 0.0050	U		< 0.0027	U	
SVP-05	30	SVP-05-30-020223	2/2/2023	< 0.0072	U		< 0.031	U		< 0.0058	U		< 0.0057	U		< 0.0052	U		< 0.0052	U		< 0.0049	U		< 0.0027	U	
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	< 0.0072	U		< 0.031	U		< 0.0058	U		< 0.0057	U		< 0.0052	U		< 0.0052	U		< 0.0049	U		< 0.0027	U	
SVP-06	10	SVP-06-10-020223	2/2/2023	< 0.0070	U		< 0.031	U		< 0.0057	U		< 0.0056	U		< 0.0051	U		< 0.0051	U		0.0015	J		< 0.0026	U	
SVP-06	20	SVP-06-20-020223	2/2/2023	< 0.0070	U		< 0.03	U		< 0.0056	U		< 0.0055	U		< 0.0050	U		< 0.0050	U		0.0027	J		< 0.0026	U	
SVP-06	30	SVP-06-30-020223	2/2/2023	< 0.0072	U		< 0.032	U		< 0.0058	U		< 0.0058	U		< 0.0052	U		< 0.0053	U		< 0.0050	U		< 0.0027	U	
SVP-07	10	SVP-07-10-020223	2/2/2023	< 0.0065	U		< 0.029	U		< 0.0053	U		< 0.0052	U		< 0.0047	U		< 0.0047	U		< 0.0045	U		< 0.0025	U	
SVP-07	20	SVP-07-20-020223	2/2/2023	< 0.0076	U		< 0.033	U		< 0.0061	U		< 0.0060	U		< 0.0055	U		< 0.0055	U		< 0.0052	U		< 0.0029	U	
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	< 0.0077	U		< 0.034	U		< 0.0062	U		< 0.0061	U		< 0.0056	U		< 0.0056	U		< 0.0053	U		< 0.0029	U	
SVP-07	30	SVP-07-30-020223	2/2/2023	< 0.0072	U		< 0.032	U		< 0.0058	U		< 0.0057	U		< 0.0052	U		< 0.0052	U		< 0.0050	U		< 0.0027	U	
SVP-08	10	SVP-08-10-020623	2/6/2023	< 0.0071	U		< 0.031	U		< 0.0057	U		< 0.0056	U		< 0.0052	U		< 0.0052	U		< 0.0049	U		< 0.0027	U	
SVP-08	20	SVP-08-20-020623	2/6/2023	< 0.0071	U		< 0.031	U		< 0.0057	U		< 0.0056	U		< 0.0052	U		< 0.0052	U		0.0014	J		< 0.0027	U	
SVP-08	30	SVP-08-30-020623	2/6/2023	< 0.0078	U		< 0.034	U		< 0.0062	U		< 0.0062	U		< 0.0056	U		< 0.0056	U		0.024			< 0.0029	U	
SVP-09	10	SVP-09-10-020623	2/6/2023	< 0.0072	U		< 0.032	U		< 0.0058	U		< 0.0058	U		< 0.0052	U		< 0.0053	U		< 0.0050	U		< 0.0027	U	
SVP-09	20	SVP-09-20-020623	2/6/2023	< 0.0076	U		< 0.033	U		< 0.0061	U		< 0.0060	U		< 0.0055	U		< 0.0055	U		0.021			< 0.0029	U	
SVP-09	30	SVP-09-30-020623	2/6/2023	< 0.0074	U		< 0.032	U		< 0.0060	U		< 0.0059	U		< 0.0054	U		< 0.0054	U		< 0.0051	U		< 0.0028	U	
SVP-10	10	SVP-10-10-020323	2/3/2023	< 0.0066	U		< 0.029	U		< 0.0053	U		< 0.0052	U		< 0.0048	U		< 0.0048	U		< 0.0045	U		< 0.0025	U	
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	0.01			< 0.028	U		< 0.0052	U		< 0.0051	U		< 0.0047	U		< 0.0047	U		< 0.0044	U		< 0.0024	U	
SVP-10	20	SVP-10-20-020323	2/3/2023	< 0.0071	U		< 0.031	U		< 0.0057	U		< 0.0056	U		< 0.0052	U		< 0.0052	U		< 0.0049	U		< 0.0027	U	
SVP-10	30	SVP-10-30-020323	2/3/2023	< 0.0068	U		< 0.03	U		< 0.0055	U		< 0.0054	U		< 0.0050	U		< 0.0050	U		0.026			< 0.0026	U	
SVP-11	10	SVP-11-10-020323	2/3/2023	< 0.0071	U		< 0.031	U		< 0.0057	U		< 0.0056	U		< 0.0052	U		< 0.0052	U		0.0021	J		< 0.0027	U	
SVP-11	20	SVP-11-20-020323	2/3/2023	< 0.0070	U		< 0.03	U		< 0.0056	U		< 0.0055	U		< 0.0051	U		< 0.0051	U		0.0036	J		< 0.0026	U	
SVP-11	30	SVP-11-30-020323	2/3/2023	< 0.0071	U		< 0.031	U		< 0.0057	U		< 0.0056	U		0.0055			< 0.0052	U		0.0055			< 0.0027	U	
SVP-12	10	SVP-12-10-020223	2/2/2023	< 0.0077	U		< 0.034	U		< 0.0062	U		< 0.0061	U		< 0.0056	U		< 0.0056	U		< 0.0053	U		< 0.0029	U	
SVP-12	20	SVP-12-20-020223	2/2/2023	< 0.0074	U		< 0.032	U		< 0.0059	U		< 0.0058	U		< 0.0054	U		< 0.0054	U		0.039			< 0.0028	U	
SVP-12	30	SVP-12-30-020223	2/2/2023	< 0.0075	U		< 0.033	U		< 0.0060	U		< 0.0060	U		< 0.0054	U		< 0.0054	U		< 0.0052	U		< 0.0028	U	
SVP-13	10	SVP-13-10-020223	2/2/2023	< 0.0071	U		< 0.031	U		< 0.0057	U		< 0.0056	U		< 0.0052	U		< 0.0052	U		0.042			< 0.0027	U	
SVP-13	20	SVP-13-20-020223	2/2/2023	< 0.0075	U		< 0.033	U		< 0.0060	U		< 0.0060	U		< 0.0054	U		< 0.0054	U		0.042			< 0.0028	U	
SVP-13	30	SVP-13-30-020223	2/2/2023	< 0.0072	U		< 0.032	U		< 0.0058	U		< 0.0057	U		< 0.0052	U		< 0.0052	U		0.0068			< 0.0027	U	
SVP-14	10	SVP-14-10-020223	2/2/2023	< 0.0064	U		< 0.028	U		< 0.0051	U		< 0.0050	U		< 0.0046	U		< 0.0046	U		< 0.0044	U		< 0.0024	U	
SVP-14	20	SVP-14-20-020223	2/2/2023	< 0.0065	U		< 0.029	U		< 0.0053	U		< 0.0052	U		< 0.0047	U		< 0.0047	U		0.0018	J		< 0.0025	U	
SVP-14	30	SVP-14-30-020223	2/2/2023	< 0.0072	U		< 0.031	U		< 0.0058	U		< 0.0057	U		< 0.0052	U		< 0.0052	U		< 0.0050	U		< 0.0027	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	m,p-Xylene			o-Xylene			Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane		
				130			120																				
				Result (mg/m3)	Lab Quals	AECOM Quals	Result (mg/m3)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	0.019			0.0054			0.55			< 0.022	U		< 0.0022	U		< 0.0022	U		0.0073	J		< 0.00022	U	
SVP-01	20	SVP-01-20-020623	2/6/2023	0.0035	J		0.0012	J		0.95			< 0.022	U		< 0.0022	U		< 0.0022	U		0.013	J		< 0.00022	U	
SVP-01	30	SVP-01-30-020623	2/6/2023	< 0.0053	U		< 0.0053	U		1.5			< 0.025	U		< 0.0025	U		< 0.0025	U		0.029	J		< 0.00025	U	
SVP-02	10	SVP-02-10-020623	2/6/2023	< 0.0051	U		< 0.0051	U		1.0			< 0.023	U		< 0.0023	U		< 0.0023	U		0.053	J		< 0.00023	U	
SVP-02	20	SVP-02-20-020623	2/6/2023	< 0.0052	U		< 0.0052	U		0.50			< 0.024	U		< 0.0024	U		< 0.0024	U		1.3			0.00016	J	
SVP-02	30	SVP-02-30-020623	2/6/2023	< 0.0050	U		< 0.0050	U		1.8			< 0.023	U		< 0.0023	U		< 0.0023	U		0.018	J		< 0.00023	U	
SVP-03	10	SVP-03-10-020323	2/3/2023	< 0.0044	U		< 0.0044	U		0.78			< 0.020	U		< 0.0020	U		< 0.0020	U		0.010	J		< 0.00020	U	
SVP-03	20	SVP-03-20-020323	2/3/2023	< 0.0044	U		< 0.0044	U		1.3			< 0.020	U		< 0.0020	U		< 0.0020	U		< 0.10	U		< 0.00020	U	
SVP-03	30	SVP-03-30-020323	2/3/2023	< 0.0048	U		< 0.0048	U		1.6			< 0.022	U		< 0.0022	U		< 0.0022	U		0.0055	J		< 0.00022	U	
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	< 0.0049	U		< 0.0049	U		1.7			< 0.022	U		< 0.0022	U		< 0.0022	U		0.0074	J		< 0.00022	U	
SVP-04	10	SVP-04-10-020223	2/2/2023	< 0.0044	U		< 0.0044	U		1.2			< 0.020	U		< 0.0020	U		< 0.0020	U		< 0.10	U		< 0.00020	U	
SVP-04	20	SVP-04-20-020223	2/2/2023	< 0.0043	U		< 0.0043	U		1.4			< 0.020	U		< 0.0020	U		< 0.0020	U		< 0.10	U		< 0.00020	U	
SVP-04	30	SVP-04-30-020223	2/2/2023	< 0.0043	U		< 0.0043	U		1.6			< 0.020	U		< 0.0020	U		< 0.0020	U		0.0068	J		< 0.00020	U	
SVP-05	10	SVP-05-10-020223	2/2/2023	< 0.0050	U		< 0.0050	U		0.79			< 0.023	U		< 0.0023	U		< 0.0023	U		0.30			< 0.00023	U	
SVP-05	20	SVP-05-20-020223	2/2/2023	< 0.0046	U		< 0.0046	U		1.1			< 0.021	U		< 0.0021	U		< 0.0021	U		0.28			< 0.00021	U	
SVP-05	30	SVP-05-30-020223	2/2/2023	< 0.0046	U		< 0.0046	U		1.5			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.10	U		< 0.00021	U	
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	< 0.0046	U		< 0.0046	U		1.5			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.10	U		< 0.00021	U	
SVP-06	10	SVP-06-10-020223	2/2/2023	< 0.0045	U		< 0.0045	U		0.33			< 0.021	U		< 0.0021	U		< 0.0021	U		0.0093	J		< 0.00021	U	
SVP-06	20	SVP-06-20-020223	2/2/2023	< 0.0044	U		< 0.0044	U		1.5			< 0.020	U		< 0.0020	U		< 0.0020	U		0.021	J		< 0.00020	U	
SVP-06	30	SVP-06-30-020223	2/2/2023	< 0.0046	U		< 0.0046	U		1.7			< 0.021	U		< 0.0021	U		< 0.0021	U		0.0070	J		< 0.00021	U	
SVP-07	10	SVP-07-10-020223	2/2/2023	< 0.0042	U		< 0.0042	U		0.47			< 0.019	U		< 0.0019	U		< 0.0019	U		0.22			< 0.00019	U	
SVP-07	20	SVP-07-20-020223	2/2/2023	< 0.0049	U		< 0.0049	U		0.61			< 0.022	U		< 0.0022	U		< 0.0022	U		0.022	J		< 0.00022	U	
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	< 0.0049	U		< 0.0049	U		0.61			< 0.023	U		< 0.0023	U		< 0.0023	U		0.0095	J		< 0.00023	U	
SVP-07	30	SVP-07-30-020223	2/2/2023	< 0.0046	U		< 0.0046	U		2.1			< 0.021	U		< 0.0021	U		< 0.0021	U		0.0058	J		< 0.00021	U	
SVP-08	10	SVP-08-10-020623	2/6/2023	< 0.0046	U		< 0.0046	U		1.9			< 0.021	U		< 0.0021	U		< 0.0021	U		0.046	J		< 0.00021	U	
SVP-08	20	SVP-08-20-020623	2/6/2023	< 0.0046	U		< 0.0046	U		2.4			< 0.021	U		< 0.0021	U		< 0.0021	U		0.0092	J		< 0.00021	U	
SVP-08	30	SVP-08-30-020623	2/6/2023	0.0035	J		< 0.0050	U		2.9			< 0.023	U		< 0.0023	U		< 0.0023	U		0.0044	J		< 0.00023	U	
SVP-09	10	SVP-09-10-020623	2/6/2023	< 0.0046	U		< 0.0046	U		2.0			< 0.022	U		< 0.0022	U		< 0.0022	U		0.047	J		< 0.00022	U	
SVP-09	20	SVP-09-20-020623	2/6/2023	< 0.0049	U		< 0.0049	U		2.2			< 0.022	U		< 0.0022	U		< 0.0022	U		0.039	J		< 0.00022	U	
SVP-09	30	SVP-09-30-020623	2/6/2023	< 0.0048	U		< 0.0048	U		2.7			< 0.022	U		< 0.0022	U		< 0.0022	U		0.019	J		< 0.00022	U	
SVP-10	10	SVP-10-10-020323	2/3/2023	< 0.0042	U		< 0.0042	U		1.6			< 0.019	U		< 0.0019	U		< 0.0019	U		< 0.097	U		< 0.00019	U	
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	< 0.0041	U		< 0.0041	U		1.6			< 0.019	U		< 0.0019	U		< 0.0019	U		< 0.095	U		< 0.00019	U	
SVP-10	20	SVP-10-20-020323	2/3/2023	< 0.0046	U		< 0.0046	U		1.9			< 0.021	U		< 0.0021	U		< 0.0021	U		0.084	J		< 0.00021	U	
SVP-10	30	SVP-10-30-020323	2/3/2023	0.042			0.014			2.1			< 0.020	U		< 0.0020	U		< 0.0020	U		< 0.10	U		< 0.00020	U	
SVP-11	10	SVP-11-10-020323	2/3/2023	< 0.0046	U		< 0.0046	U		1.6			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.10	U		< 0.00021	U	
SVP-11	20	SVP-11-20-020323	2/3/2023	< 0.0045	U		< 0.0045	U		1.7			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.10	U		< 0.00021	U	
SVP-11	30	SVP-11-30-020323	2/3/2023	0.12			0.047			1.8			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.10	U		< 0.00021	U	
SVP-12	10	SVP-12-10-020223	2/2/2023	< 0.0050	U		< 0.0050	U		0.78			< 0.023	U		< 0.0023	U		< 0.0023	U		0.0038	J		< 0.00023	U	
SVP-12	20	SVP-12-20-020223	2/2/2023	0.024			0.0069			1.7			< 0.022	U		< 0.0022	U		< 0.0022	U		0.0037	J		< 0.00022	U	
SVP-12	30	SVP-12-30-020223	2/2/2023	< 0.0048	U		< 0.0048	U		2.0			< 0.022	U		< 0.0022	U		< 0.0022	U		< 0.11	U		< 0.00022	U	
SVP-13	10	SVP-13-10-020223	2/2/2023	0.02			0.0057			0.63			< 0.021	U		< 0.0021	U		< 0.0021	U		0.0051	J		< 0.00021	U	
SVP-13	20	SVP-13-20-020223	2/2/2023	< 0.0048	U		< 0.0048	U		1.6			< 0.022	U		< 0.0022	U		< 0.0022	U		0.014	J		< 0.00022	U	
SVP-13	30	SVP-13-30-020223	2/2/2023	0.0029	J		< 0.0046	U		2.1			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.11	U		0.00012	J	
SVP-14	10	SVP-14-10-020223	2/2/2023	< 0.0041	U		< 0.0041	U		0.91			< 0.019	U		< 0.0019	U		< 0.0019	U		0.020	J		< 0.00019	U	
SVP-14	20	SVP-14-20-020223	2/2/2023	< 0.0042	U		< 0.0042	U		1.4			< 0.019	U		< 0.0019	U		< 0.0019	U		0.33			< 0.00019	U	
SVP-14	30	SVP-14-30-020223	2/2/2023	< 0.0046	U		< 0.0046	U		2.5			< 0.021	U		< 0.0021	U		< 0.0021	U		< 0.11	U		< 0.00021	U	

SEE LAST PAGE OF TABLE FOR NOTES

TABLE 4
SVP BASELINE ANALYTICAL DETECTIONS AND SCREENING RESULTS

Location	Depth	Sample ID	Sample Date	Nitrogen			Oxygen		
				Result (%)	Lab Quals	AECOM Quals	Result (%)	Lab Quals	AECOM Quals
SVP-01	10	SVP-01-10-020623	2/6/2023	**78**			**21**		
SVP-01	20	SVP-01-20-020623	2/6/2023	**79**			**20**		
SVP-01	30	SVP-01-30-020623	2/6/2023	**80**			**19**		
SVP-02	10	SVP-02-10-020623	2/6/2023	**79**			**20**		
SVP-02	20	SVP-02-20-020623	2/6/2023	**77**			**21**		
SVP-02	30	SVP-02-30-020623	2/6/2023	**80**			**18**		
SVP-03	10	SVP-03-10-020323	2/3/2023	**78**			**21**		
SVP-03	20	SVP-03-20-020323	2/3/2023	**80**			**19**		
SVP-03	30	SVP-03-30-020323	2/3/2023	**80**			**18**		
SVP-03	30	SVP-03-30-020323-DUP	2/3/2023	**80**			**18**		
SVP-04	10	SVP-04-10-020223	2/2/2023	**79**			**20**		
SVP-04	20	SVP-04-20-020223	2/2/2023	**80**			**19**		
SVP-04	30	SVP-04-30-020223	2/2/2023	**80**			**18**		
SVP-05	10	SVP-05-10-020223	2/2/2023	**78**			**21**		
SVP-05	20	SVP-05-20-020223	2/2/2023	**79**			**20**		
SVP-05	30	SVP-05-30-020223	2/2/2023	**78**			**20**		
SVP-05	30	SVP-05-30-020223-DUP	2/2/2023	**78**			**20**		
SVP-06	10	SVP-06-10-020223	2/2/2023	**78**			**22**		
SVP-06	20	SVP-06-20-020223	2/2/2023	**78**			**20**		
SVP-06	30	SVP-06-30-020223	2/2/2023	**78**			**20**		
SVP-07	10	SVP-07-10-020223	2/2/2023	**77**			**22**		
SVP-07	20	SVP-07-20-020223	2/2/2023	**78**			**21**		
SVP-07	20	SVP-07-20-020223-DUP	2/2/2023	**78**			**21**		
SVP-07	30	SVP-07-30-020223	2/2/2023	**78**			**20**		
SVP-08	10	SVP-08-10-020623	2/6/2023	**80**			**18**		
SVP-08	20	SVP-08-20-020623	2/6/2023	**80**			**18**		
SVP-08	30	SVP-08-30-020623	2/6/2023	**80**			**17**		
SVP-09	10	SVP-09-10-020623	2/6/2023	**80**			**18**		
SVP-09	20	SVP-09-20-020623	2/6/2023	**81**			**17**		
SVP-09	30	SVP-09-30-020623	2/6/2023	**81**			**16**		
SVP-10	10	SVP-10-10-020323	2/3/2023	**79**			**19**		
SVP-10	10	SVP-10-10-020323-DUP	2/3/2023	**79**			**19**		
SVP-10	20	SVP-10-20-020323	2/3/2023	**80**			**18**		
SVP-10	30	SVP-10-30-020323	2/3/2023	**81**			**17**		
SVP-11	10	SVP-11-10-020323	2/3/2023	**79**			**19**		
SVP-11	20	SVP-11-20-020323	2/3/2023	**80**			**18**		
SVP-11	30	SVP-11-30-020323	2/3/2023	**80**			**18**		
SVP-12	10	SVP-12-10-020223	2/2/2023	**77**			**22**		
SVP-12	20	SVP-12-20-020223	2/2/2023	**78**			**20**		
SVP-12	30	SVP-12-30-020223	2/2/2023	**78**			**20**		
SVP-13	10	SVP-13-10-020223	2/2/2023	**77**			**22**		
SVP-13	20	SVP-13-20-020223	2/2/2023	**78**			**20**		
SVP-13	30	SVP-13-30-020223	2/2/2023	**78**			**20**		
SVP-14	10	SVP-14-10-020223	2/2/2023	**78**			**21**		
SVP-14	20	SVP-14-20-020223	2/2/2023	**78**			**20**		
SVP-14	30	SVP-14-30-020223	2/2/2023	**78**			**20**		

Notes:
Screening criteria are from 35 I.A.C 742 (TACO) Appendix B, Table H - Tier 1 Soil Gas and Groundwater Remediation Objectives for the Indoor Inhalation Exposure Route (Residential).
Bold results are detections above the reporting limit (RL), or estimated detections between the method detection limit (MDL) and RL.
Yellow highlighted cells indicate detections that exceed residential screening criteria.
IEPA letter dated January 26, 2024 stated that baseline chloroform concentrations at SVP-14 did not need to be addressed.
A duplicate sample was collected at SVP-14-20, but analysis was canceled because the canister was discovered to have a leak upon arrival at the laboratory

Lab Qualifiers
J = Estimated value; results between the MDL and RL
U = Compound analyzed for but not detected above the RL

AECOM Qualifiers
J = Estimated detection

TABLE 5
SVP BASELINE FIELD-SCREENED TEDLAR© BAG RESULTS

Location	Sample Date	Initial Reading Time (24-Hour)	Fixed Gases				Soil Vapor Concentrations			
			CH_4 (%)	LEL (%)	CO_2 (%)	O_2 (%)	PID (ppmv)	THC (ppmv)	CH_4 (ppmv)	PHC (ppmv)
SVP-01-10	02/06/2023	12:21	0.0	0	0.6	20.0	0.0	0.0	0.0	0.0
SVP-01-20	02/06/2023	12:56	0.0	0	0.9	19.3	0.0	0.0	0.0	0.0
SVP-01-30	02/06/2023	13:12	0.0	0	1.5	18.2	0.0	0.0	0.0	0.0
SVP-02-10	02/06/2023	13:41	0.0	0	0.9	19.1	0.0	0.0	0.0	0.0
SVP-02-20	02/06/2023	14:06	0.0	0	0.5	19.9	0.0	0.0	0.0	0.0
SVP-02-30	02/06/2023	14:29	0.0	0	1.5	17.9	0.0	0.0	0.0	0.0
SVP-03-10	02/03/2023	11:48	0.0	0	0.7	19.6	0.0	0.0	0.0	0.0
SVP-03-20	02/03/2023	12:15	0.0	0	1.3	17.9	0.0	0.0	0.0	0.0
SVP-03-30	02/03/2023	12:39	0.0	0	1.6	17.9	0.0	0.0	0.0	0.0
SVP-04-10	02/02/2023	13:28	0.0	0	1.2	18.1	0.0	0.0	0.0	0.0
SVP-04-20	02/02/2023	13:47	0.0	0	1.4	17.1	0.0	0.0	0.0	0.0
SVP-04-30	02/02/2023	14:03	0.0	0	1.6	16.6	0.0	0.0	0.0	0.0
SVP-05-10	02/02/2023	12:14	0.0	0	0.7	20.1	0.0	0.0	0.0	0.0
SVP-05-20	02/02/2023	12:39	0.0	0	1.1	19.5	0.0	0.0	0.0	0.0
SVP-05-30	02/02/2023	12:52	0.0	0	1.5	18.7	0.0	0.0	0.0	0.0
SVP-06-10	02/02/2023	11:27	0.0	0	0.2	20.6	0.0	0.0	0.0	0.0
SVP-06-20	02/02/2023	11:41	0.0	0	1.5	19.2	0.0	0.0	0.0	0.0
SVP-06-30	02/02/2023	11:57	0.0	0	1.8	18.8	0.0	0.0	0.0	0.0
SVP-07-10	02/02/2023	10:12	0.0	0	0.3	20.7	0.0	0.0	0.0	0.0
SVP-07-20	02/02/2023	10:37	0.0	0	0.5	20.6	0.0	0.0	0.0	0.0
SVP-07-30	02/02/2023	10:56	0.0	0	2.1	18.1	0.0	0.0	0.0	0.0
SVP-08-10	02/06/2023	10:45	0.0	0	2.1	17.3	0.0	0.0	0.0	0.0
SVP-08-20	02/06/2023	10:58	0.0	0	2.6	16.1	0.0	0.0	0.0	0.0
SVP-08-30	02/06/2023	11:20	0.0	0	3.1	15.8	0.0	0.0	0.0	0.0
SVP-09-10	02/06/2023	09:33	0.0	0	2.6	16.8	0.0	0.0	0.0	0.0
SVP-09-20	02/06/2023	09:47	0.0	0	2.8	16.1	0.0	0.0	0.0	0.0
SVP-09-30	02/06/2023	10:05	0.0	0	3.1	15.5	0.0	0.0	0.0	0.0
SVP-10-10	02/03/2023	12:29	0.0	0	1.9	18.5	0.0	0.0	0.0	0.0
SVP-10-20	02/03/2023	12:56	0.0	0	2.4	16.5	0.0	0.0	0.0	0.0
SVP-10-30	02/03/2023	13:18	0.0	0	2.6	15.9	0.0	0.0	0.0	0.0
SVP-11-10	02/03/2023	10:13	0.0	0	2.2	19.4	0.0	0.0	0.0	0.0
SVP-11-20	02/03/2023	11:21	0.0	0	2.2	17.2	0.0	0.0	0.0	0.0
SVP-11-30	02/03/2023	11:40	0.0	0	2.3	17.2	0.0	0.0	0.0	0.0
SVP-12-10	02/02/2023	13:55	0.0	0	0.7	20.3	0.0	0.0	0.0	0.0
SVP-12-20	02/02/2023	14:18	0.0	0	1.5	18.9	0.0	0.0	0.0	0.0
SVP-12-30	02/02/2023	14:40	0.0	0	1.9	18.1	0.0	0.0	0.0	0.0
SVP-13-10	02/02/2023	12:42	0.0	0	0.6	20.4	0.0	0.0	0.0	0.0
SVP-13-20	02/02/2023	13:03	0.0	0	1.5	18.9	0.0	0.0	0.0	0.0
SVP-13-30	02/02/2023	13:21	0.0	0	1.9	18.6	0.0	0.0	0.0	0.0
SVP-14-10	02/02/2023	10:39	0.0	0	1.1	20.2	0.0	0.0	0.0	0.0
SVP-14-20	02/02/2023	11:03	0.0	0	1.3	19.5	0.0	0.0	0.0	0.0
SVP-14-30	02/02/2023	11:46	0.0	0	2.4	18.5	0.0	0.0	0.0	0.0

Notes:
1) PID = Photo Ionization Detector; THC = Total Hydrocarbon Concentration; PHC = Petroleum Hydrocarbon Concentration; ppmv = Parts Per Million By Volume.

Appendix A – As-Built Drawings

Area A

Area B

Area C

SVP-8 SVP-9 SVP-10 SVP-11 SVP-12 SVP-13 SVP-14

SVP-1 SVP-2 SVP-3 SVP-4 SVP-5 SVP-6 SVP-7

Office Trailer

Distribution Equipment

BUCKEYE PIPELINE

SI-AB4 SI-AA3 SI-AA2 SI-AA1 SI-AA0 SI-AB0 SI-AB3 SI-AB2 SI-AB1 SI-AC5 SI-AC4 SI-AC3 SI-AC2 SI-AC1 SI-AD6 SI-AD5 SI-AD4 SI-AD3 SI-AD2 SI-AE6 SI-AE5 SI-AE4 SI-AE3 SI-AE2 SI-AE1 SI-AF6 SI-AF5 SI-AF4 SI-AF3 SI-AF2 SI-AG6 SI-AG7 SI-AG5 SI-AG4 SI-AG3 SI-AH8 SI-AH7 SI-AH6 SI-AH5 SI-AH4 SI-AI8 SI-AI7 SI-AI6 SI-AI5 SI-AJ8 SI-AJ7 SI-AJ6

X-AB4 X-AA2 X-AA0 X-AB1 X-AC5 X-AC3 X-AD5 X-AD2 X-AE4 X-AF6 X-AF4 X-AG7 X-AG5 X-AF3 X-AH7 X-AH5 X-AI6 X-AJ8

T-AB3 T-AB2 T-AC2 T-AD5 T-AE5 T-AE3 T-AG6 T-AF3 T-AH5 T-AI7

Gen.

Steam Boiler

SI-CC5 SI-CC4 SI-CC3 SI-CC2 SI-CC1 SI-CA3 SI-CA2 SI-CA1 SI-CD5 SI-CD3 X-CC5 X-CB3 X-CB1 X-CC1 T-CB1

SI-BG1 SI-BF1 SI-BE1 SI-BD1 SI-BC1 SI-BB1 SI-BA1 SI-BH2 SI-BG2 SI-BF2 SI-BE2 SI-BD2 SI-BC2 SI-BB2 SI-BA2 SI-BH3 SI-BG3 SI-BF3 SI-BE3 SI-BD3 SI-BC3 SI-BB3 SI-BF4 SI-BE4 SI-BD4 SI-BC4

X-BG1 X-BF1 X-BE1 X-BD1 X-BC1 X-BB2 X-BC2 X-BH2 X-BG2 X-BF2 X-BE2 X-BD2 X-BH3 X-BG3 X-BF3 X-BE3 X-BD3 X-BC3

T-BG2 T-BF2 T-BF3 T-BE3 T-BB2

Discharge to Adjacent Block

LEGEND

AREA A
- Steam Injection Well [39]
- Angled Steam Injection Well [9]
- Multiphase Extraction Well [17]
- Angled MPE Well [1]
- Temperature Sensor Well [10]
- Thermal Influence (28,271 sq. ft)

AREA B
- Steam Injection Well [22]
- Angled Steam Injection Well [4]
- Multiphase Extraction Well [12]
- Angled MPE Well [6]
- Temperature Sensor Well [3]
- Angled Temp. Sensor Well [2]
- Thermal Influence (15,745 sq. ft)

AREA C
- Steam Injection Well [7]
- Shallow Steam Injection Well [3]
- Multiphase Extraction Well [3]
- Angled MPE Well [1]
- Temperature Sensor Well [1]
- Thermal Influence (2,571 sq. ft)

General
- Vapor Monitoring Well [14]
- July 2023 Benzene TTZ
- Buckeye Pipeline
- Gas
- Water
- Sewer
- Electrical
- Unknown Buried Line
- Existing Fence

NOTES:

1. STEAM WELLS REQUIRE MIN. 4" BORING.
2. EXTRACTION WELLS REQUIRE MIN. 8" BORING.
3. SENSOR WELLS REQUIRE MIN. 4" BORING.
4. PIPELINE LOCATION PROVIDED BY AECOM.
5. VAPOR MONITORING POINTS TO BE INSTALLED BY OTHERS.

N

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SCALE IN FEET

McMillan-McGee Corp.

Electromagnetic Systems and Services
For the Energy and Environmental Industries

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Calgary, AB T2B 3M9 Canada

www.mcmillan-mcgee.com
Ph: 403.569.5100, Fx: 403.272.7201

REV.	DATE (D/M/Y)	DESCRIPTION	DRAWN BY	ORG/ ENGR.	Aprovel Dist.
D4	2024/05/27	As-Built Well Survey Edits	CO		
D3	2024/05/24	As-Built Well Survey Edits	CO	CC	-
D2	2024/05/22	As-Built Well Survey	CO	CC	-
D1	2024/01/25	As-Built	CC	DR	-
C8	2023/09/07	UPDATED WELL COUNTS	GW	CW	CC
D5	2024/08/30	As-Built Sample Well Survey Edits	CC	CC	CC

LPE

DATE

APEGA PERMIT NUMBER: P09178

SCALE: NOT TO SCALE

TITLE: **SEE Well Field Layout**

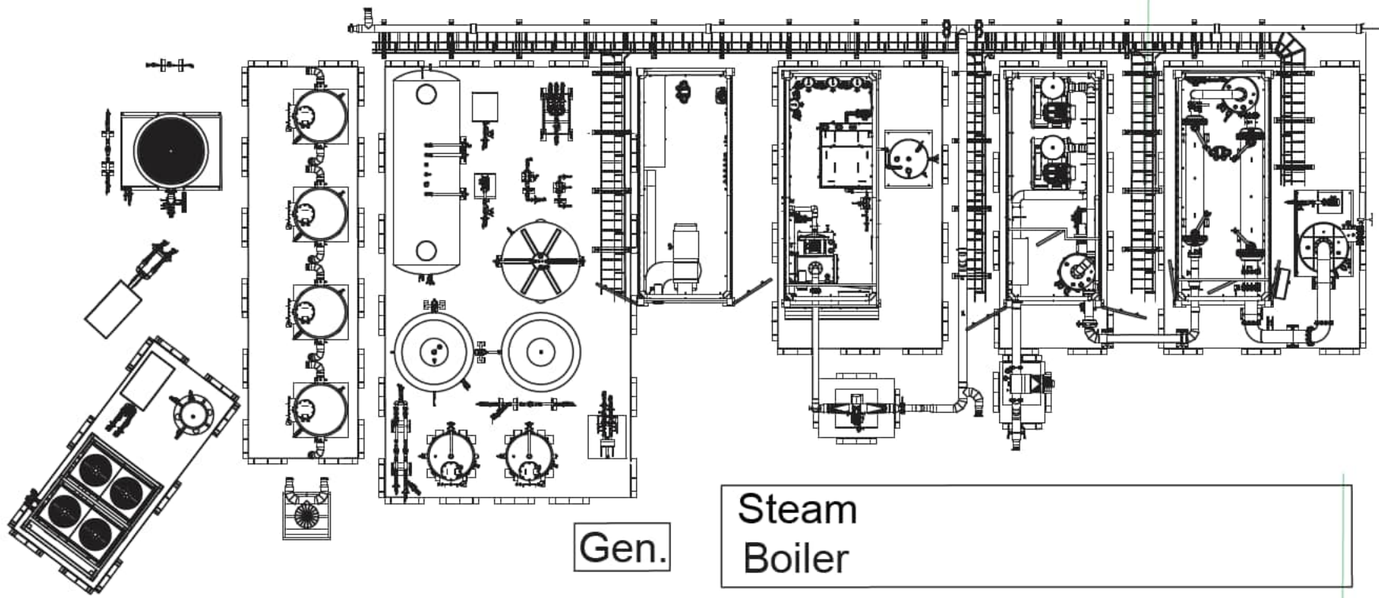
CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **WFL-01**

NOTES:

1. As–Built



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0 10 20

SCALE IN FEET

McMILLAN-McGEE CORP.

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FOR THE ENERGY AND ENVIRONMENTAL INDUSTRIES

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CALGARY, AB T2B 3M9 CANADA

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LPE

DATE

REV.	DATE (D/M/Y)	DESCRIPTION	DRAWN BY	ORD/ ENGR	Approval Dist
C4	2023/09/07	UPDATED TITLE	CW	CW	CC
C3	2023/07/12	Layout update	DN	JS	-
C2	2022/10/28	100% RDR ADDENDUM	JS	JS	CC
C1	2022/01/07	100% DESIGN	JS	CC	CC
B4	2021/12/02	FINALIZE TREATMENT AREA B	JS	CC	CC
D1	2024/01/24	As-Built	CC	DR	DR

APEGA PERMIT NUMBER: P09178

SCALE: NOT TO SCALE

TITLE:

SEE Treatment Equipment Layout

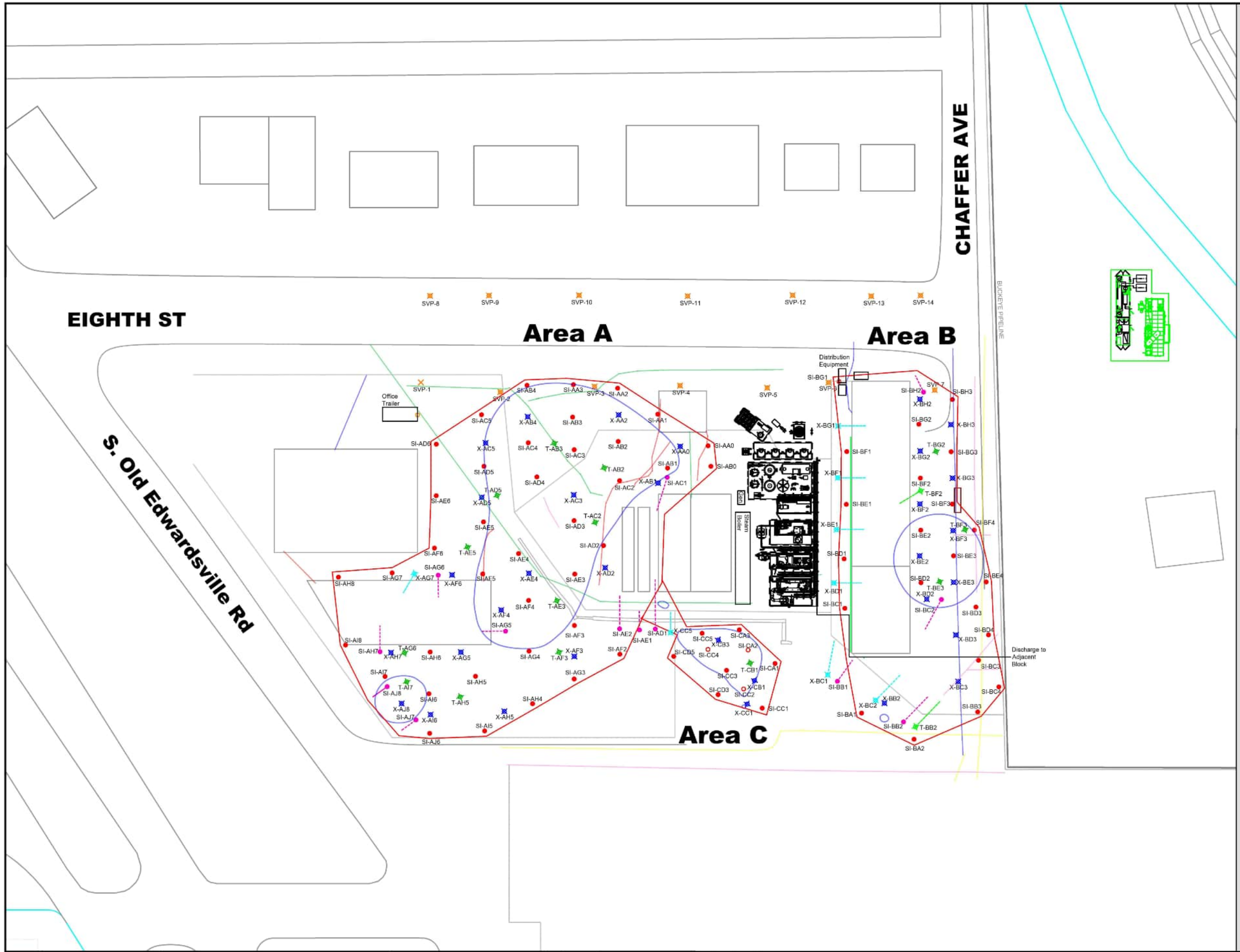
CLIENT: AECOM

PROJECT:

Roxana Public Works Yard
Roxana, Illinois

SHEET:

EQL-01



LEGEND

AREA A
- Steam Injection Well [39]
- Angled Steam Injection Well [9]
- Multiphase Extraction Well [17]
- Angled MPE Well [1]
- Temperature Sensor Well [10]
- Thermal Influence (28,271 sq. ft)

AREA B
- Steam Injection Well [22]
- Angled Steam Injection Well [4]
- Multiphase Extraction Well [12]
- Angled MPE Well [6]
- Temperature Sensor Well [3]
- Angled Temp. Sensor Well [2]
- Thermal Influence (15,745 sq. ft)

AREA C
- Steam Injection Well [7]
- Shallow Steam Injection Well [3]
- Multiphase Extraction Well [3]
- Angled MPE Well [1]
- Temperature Sensor Well [1]
- Thermal Influence (2,571 sq. ft)

General
- Buckeye Pipeline
- 5 ft Pipeline Drilling Offset
- Vapour Monitoring Well [14]
- 8" Conveyance Piping to RTO

NOTES:

1. STEAM WELLS REQUIRE MIN. 4" BORING.
2. EXTRACTION WELLS REQUIRE MIN. 8" BORING.
3. SENSOR WELLS REQUIRE MIN. 4" BORING.
4. PIPELINE LOCATION PROVIDED BY AECOM.
5. VAPOR MONITORING POINTS TO BE INSTALLED BY OTHERS.

N

0 50 100
SCALE IN FEET

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LPE

DATE

REV.	DATE (D/M/Y)	DESCRIPTION	DRAWN BY	ORIG ENGR	Approved Dist
D4	2024/05/27	As-Built Well Survey Edits	CO		
D3	2024/05/24	As-Built Well Survey Edits	CO	CC	-
D2	2024/05/22	As-Built Well Survey	CO	CC	-
D1	2024/01/24	As-Built	CC	DR	DR
C5	2023/09/07	UPDATED WELL COUNTS	CW	CW	CC
D5	2024/08/30	As-Built Sample Well Survey Edits	CC	CC	CC

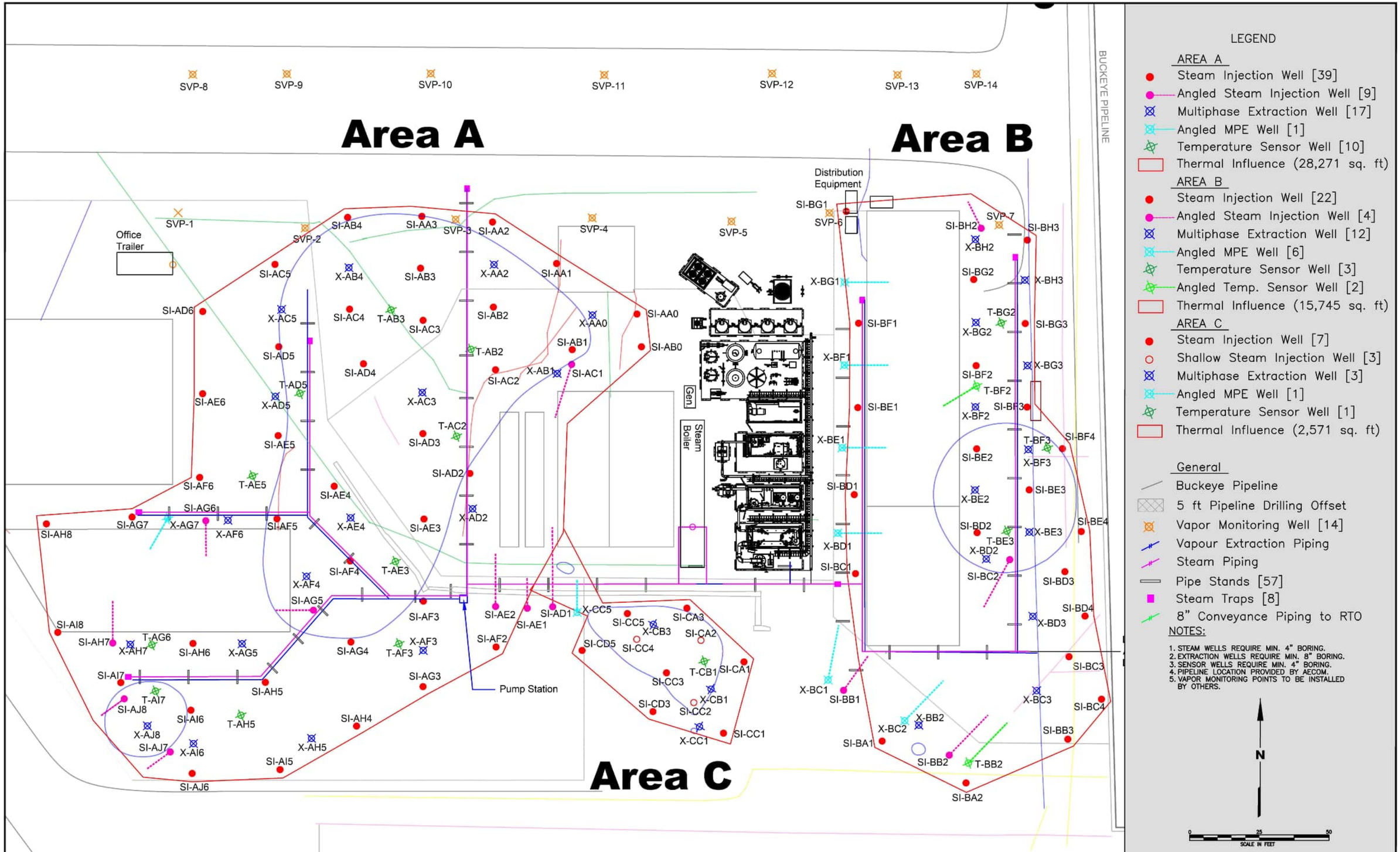
APEGA PERMIT NUMBER: P09178
SCALE: NOT TO SCALE

TITLE: **SEE Equipment Layout**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **EQL-02**



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REV.	DATE (D/M/Y)	DESCRIPTION	DRAWN BY	ORIG ENGR	Aproved Dist
D5	2024/05/27	As-Built Well Survey Edits	CO		
D4	2024/05/24	As-Built Well Survey Edits	CO	CC	--
D3	2024/05/22	As-Built Well Survey	CO	CC	--
D2	2024/02/05	As-Built Piping Change	CC	DR	DR
D1	2024/01/24	As-Built	CC	DR	DR
D6	2024/08/30	As-Built Sample Well Survey Edits	CC	CC	CC

APEGA PERMIT NUMBER: P09178
SCALE: NOT TO SCALE

LPE:
DATE:

TITLE: **SEE Piping Layout**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

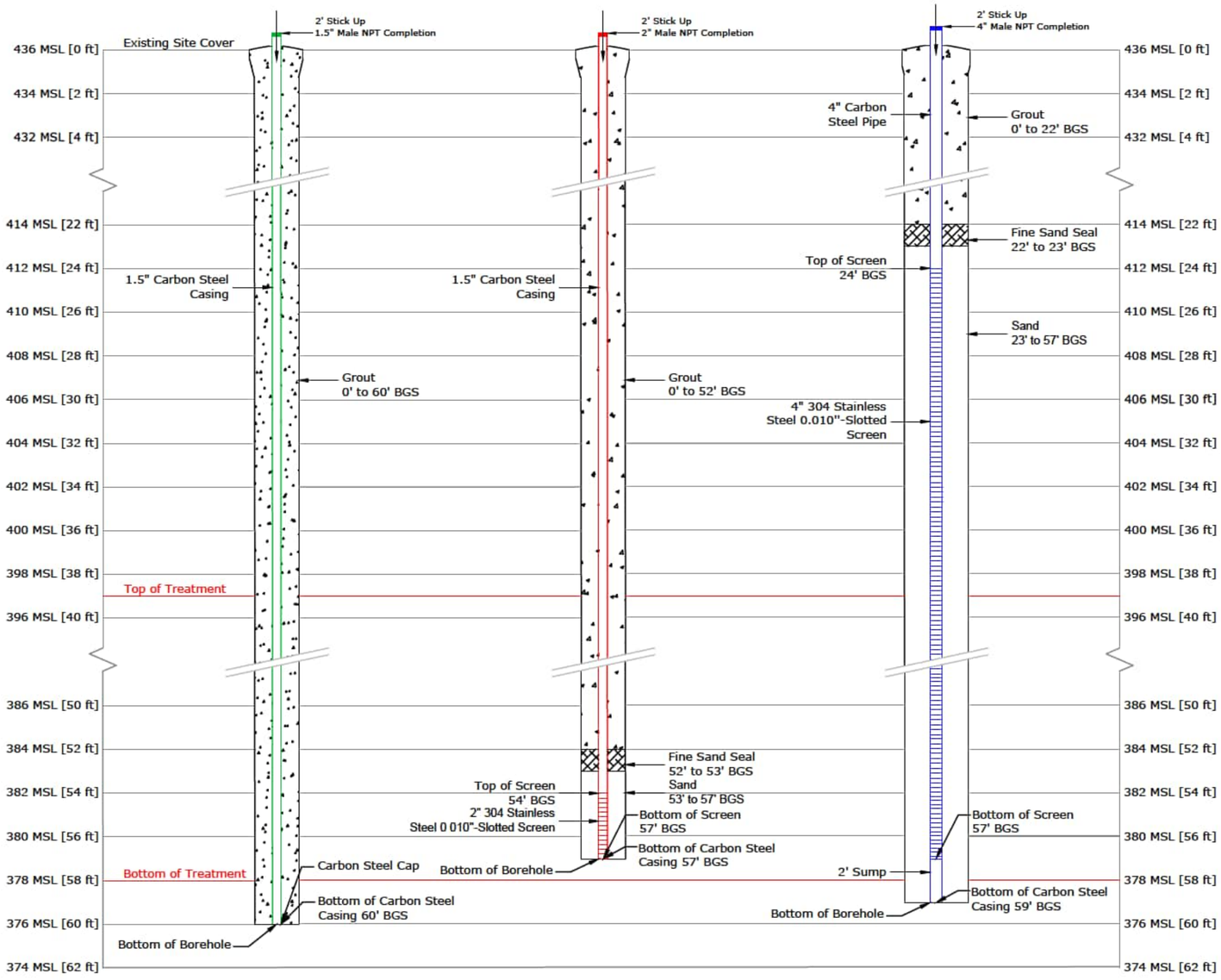
SHEET: **PIL-01**

AREA A

DIGITAM™ TEMPERATURE SENSOR WELL QUANTITY - 10

STEAM INJECTION WELL QUANTITY - 39

MULTIPHASE EXTRACTION WELL QUANTITY - 17



GENERAL NOTES:

1. MATERIAL TYPES
   - A. GROUT
     - HIGH TEMPERATURE PORTLAND TYPE 1 OR EQUIVALENT (NO BENTONITE)
   - B. SAND
     - FINE SAND SEAL: 40/60 SILICA SAND
     - STEAM INJECTION/EXTRACTION WELLS: 20/40 SILICA SAND
2. STEAM INJECTION WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 2" SCHEDULE 40 CARBON STEEL CASING
   - C. NOMINAL 2" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010"-SLOTTED SCREEN
3. TEMPERATURE WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 1.5" SCHEDULE 40 CARBON STEEL CASING
   - C. THREADS CAN BE NPT OR FLUSH JOINT
   - D. STICKUP MUST BE MALE NPT
   - E. ALL JOINTS TO BE TIGHTENED WITH PIPE WRENCH USING PIPE THREAD COMPOUND AND PTFE TAPE
4. MULTIPHASE EXTRACTION WELLS
   - A. MINIMUM 8" DIAMETER BOREHOLE
   - B. 4" SCHEDULE 40 CASING
   - C. NOMINAL 4" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010''-SLOTTED SCREEN
   - D. FITTINGS BETWEEN PIPE SECTIONS ARE 4 THREAD PER INCH (TPI) FLUSH THREADED UNLESS SPECIFIED OTHERWISE (IE M NPT OR PLUG)
   - E. 4" NPT FEMALE X WELD PLATE ENDS

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LPE

DATE

REV.	DATE (YYMMDD)	DESCRIPTION	DRAWN BY	ORG/ ENGR	Aprovad Dist
C2	2023/09/06	100% DESIGN - Well Count Adjusted	CW	CW	CC
C1	2022/01/07	100% DESIGN	JS	CC	CC
B2	2021/09/29	90% DESIGN	JS	CC	CC
B1	2021/08/27	60% DESIGN	JS	CC	CC
A1	2021/08/20	NOT FOR CONSTRUCTION	CC	CC	--

APEGA PERMIT NUMBER: P09178 — SCALE: NOT TO SCALE

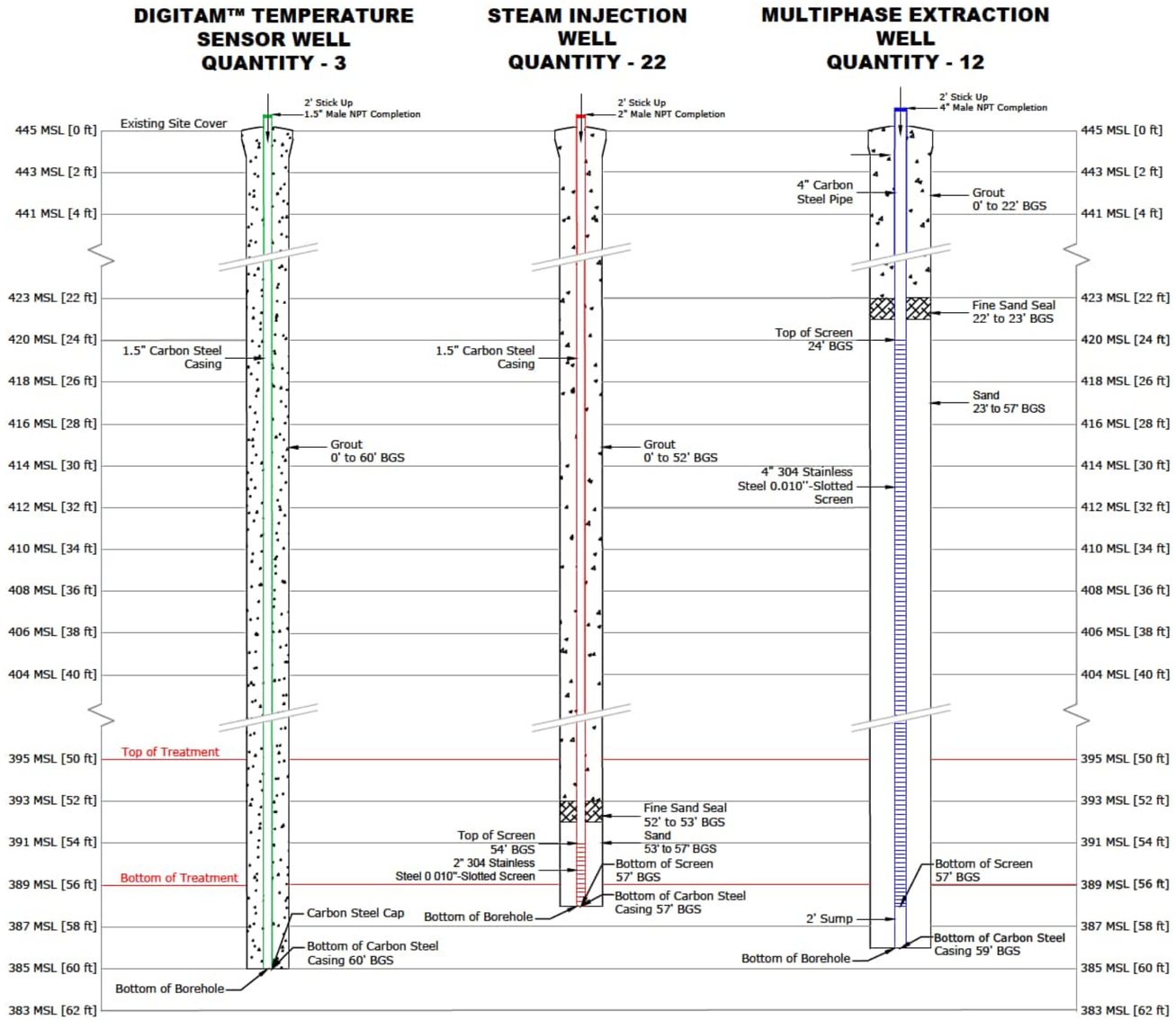
TITLE: **SEE Well Completion Drawing**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard, Roxana, Illinois**

SHEET: **WCD-01**

AREA B



GENERAL NOTES:

1. MATERIAL TYPES
   - A. GROUT
     - HIGH TEMPERATURE PORTLAND TYPE 1 OR EQUIVALENT (NO BENTONITE)
   - B. SAND
     - FINE SAND SEAL: 40/60 SILICA SAND
     - STEAM INJECTION/EXTRACTION WELLS: 20/40 SILICA SAND
2. STEAM INJECTION WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 2" SCHEDULE 40 CARBON STEEL CASING
   - C. NOMINAL 2" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010"-SLOTTED SCREEN
3. TEMPERATURE WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 1.5" SCHEDULE 40 CARBON STEEL CASING
   - C. THREADS CAN BE NPT OR FLUSH JOINT
   - D. STICKUP MUST BE MALE NPT
   - E. ALL JOINTS TO BE TIGHTENED WITH PIPE WRENCH USING PIPE THREAD COMPOUND AND PTFE TAPE
4. MULTIPHASE EXTRACTION WELLS
   - A. MINIMUM 8" DIAMETER BOREHOLE
   - B. 4" SCHEDULE 40 CASING
   - C. NOMINAL 4" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010''-SLOTTED SCREEN
   - D. FITTINGS BETWEEN PIPE SECTIONS ARE 4 THREAD PER INCH (TPI) FLUSH THREADED UNLESS SPECIFIED OTHERWISE (IE M NPT OR PLUG)
   - E. 4" NPT FEMALE X WELD PLATE ENDS

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REV.	DATE (YYMMDD)	DESCRIPTION	DRAWN BY	ORGV ENGR	Approved Dist
C2	2023/05/06	100% DESIGN - Well Count Adjustad	CW	CW	CC
C1	2022/01/07	100% DESIGN	JS	CC	CC
B3	2021/12/02	FINALIZE TREATMENT AREA B	JS	CC	CC
B2	2021/09/29	90% DESIGN	JS	CC	CC
B1	2021/08/27	60% DESIGN	JS	CC	CC
A1	2014/06/13	NOT FOR CONSTRUCTION	CC	CC	--

LPE

DATE

APEGA PERMIT NUMBER: P09178

SCALE: NOT TO SCALE

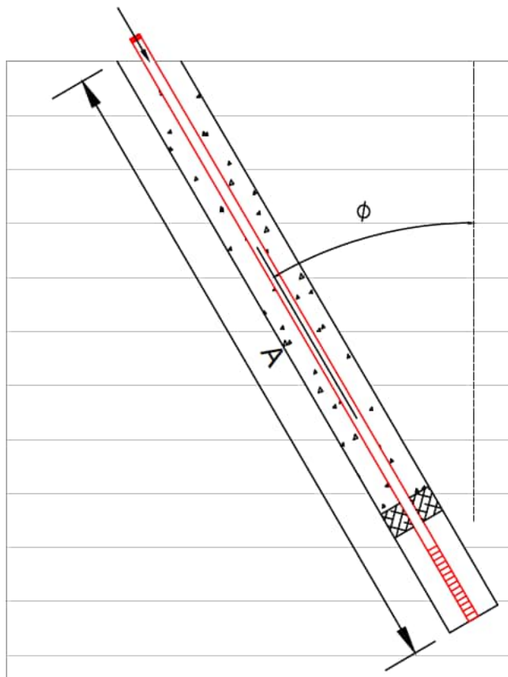
TITLE: **SEE Well Completion Drawing**

CLIENT: **AECOM**

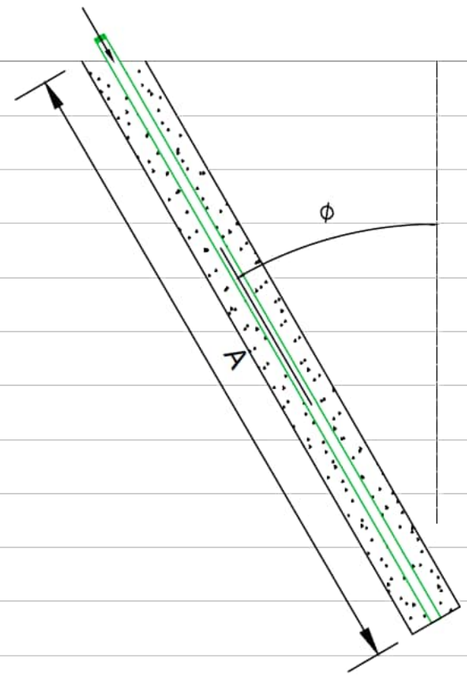
PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **WCD-02**

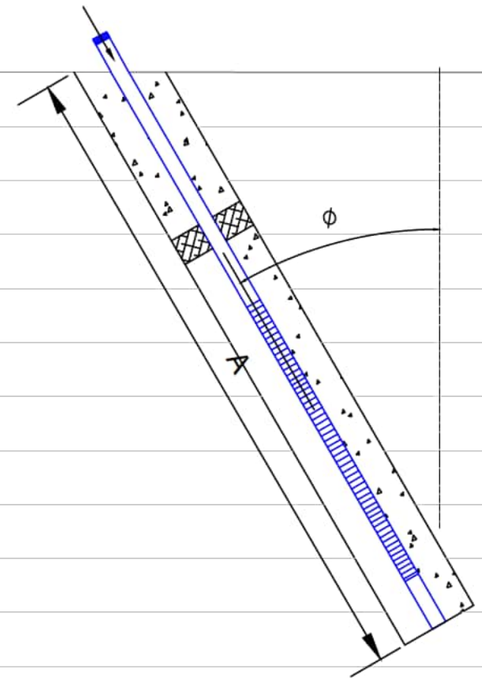
ANGLED
STEAM INJECTION WELL
QUANTITY - 13



ANGLED DIGITAM™
TEMPERATURE SENSOR
WELL
QUANTITY - 2



ANGLED MULTIPHASE
EXTRACTION WELL
QUANTITY - 7



GENERAL NOTES:

1. MATERIAL TYPES
   - A. GROUT
     - HIGH TEMPERATURE PORTLAND TYPE 1 OR EQUIVALENT (NO BENTONITE)
   - B. SAND
     - FINE SAND SEAL: 40/60 SILICA SAND
     - STEAM INJECTION/EXTRACTION WELLS: 20/40 SILICA SAND
2. STEAM INJECTION WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 2" SCHEDULE 40 CARBON STEEL CASING
   - C. NOMINAL 2" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010"-SLOTTED SCREEN
3. TEMPERATURE WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 1.5" SCHEDULE 40 CARBON STEEL CASING
   - C. THREADS CAN BE NPT OR FLUSH JOINT
   - D. STICKUP MUST BE MALE NPT
   - E. ALL JOINTS TO BE TIGHTENED WITH PIPE WRENCH USING PIPE THREAD COMPOUND AND PTFE TAPE
4. MULTIPHASE EXTRACTION WELLS
   - A. MINIMUM 8" DIAMETER BOREHOLE
   - B. 4" SCHEDULE 40 CASING
   - C. NOMINAL 4" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010''-SLOTTED SCREEN
   - D. FITTINGS BETWEEN PIPE SECTIONS ARE 4 THREAD PER INCH (TPI) FLUSH THREADED UNLESS SPECIFIED OTHERWISE (IE M NPT OR PLUG)
   - E. 4" NPT FEMALE X WELD PLATE ENDS

ANGLED WELL DETAILS

Well	ø	A	Well	ø	A	Well	ø	A	Well	ø	A
SI-AC1	19.33	60.41	SI-BB1	14.74	58.94	T-BB2	18.74	62.30	X-AG7	12.15	60.35
SI-AD1	26.57	63.73	SI-BB2	19.33	60.41	T-BF2	13.01	61.58	X-BC1	17.63	61.90
SI-AE1	10.73	58.01	SI-BC2	18.80	60.21				X-BC2	18.43	63.25
SI-AE2	18.34	60.05	SI-BH2	8.63	57.65				X-BD1	17.63	61.90
SI-AG5	13.30	58.57							X-BE1	17.63	61.90
SI-AG6	12.56	58.39							X-BF1	17.63	61.90
SI-AH7	15.73	59.21							X-BG1	17.63	61.90
SI-AJ7	10.17	57.91									
SI-AJ8	10.17	57.91									

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REV.	DATE (YYMMDD)	DESCRIPTION	DRAWN BY	ORIG/ ENGR	Approved Dist
C2	2023/09/06	100% DESIGN - Well Count Adjustad	CW	CW	CC
C1	2022/01/07	100% DESIGN	JS	CC	CC
B4	2021/12/02	FINALIZE TREATMENT AREA B	JS	CC	CC
B3	2021/10/26	UPDATE T-AG6 AND T-BF2	JS	CC	CC
B2	2021/09/28	90% DESIGN	JS	CC	CC
B1	2021/08/20	60% DESIGN	JS	CC	CC

LPE
DATE
APEGA PERMIT NUMBER: P09178
SCALE: NOT TO SCALE

TITLE: **SEE Well Completion Drawing**
CLIENT: **AECOM**
PROJECT: **Roxana Public Works Yard**
Roxana, Illinois
SHEET: **WCD-03**

AREA C

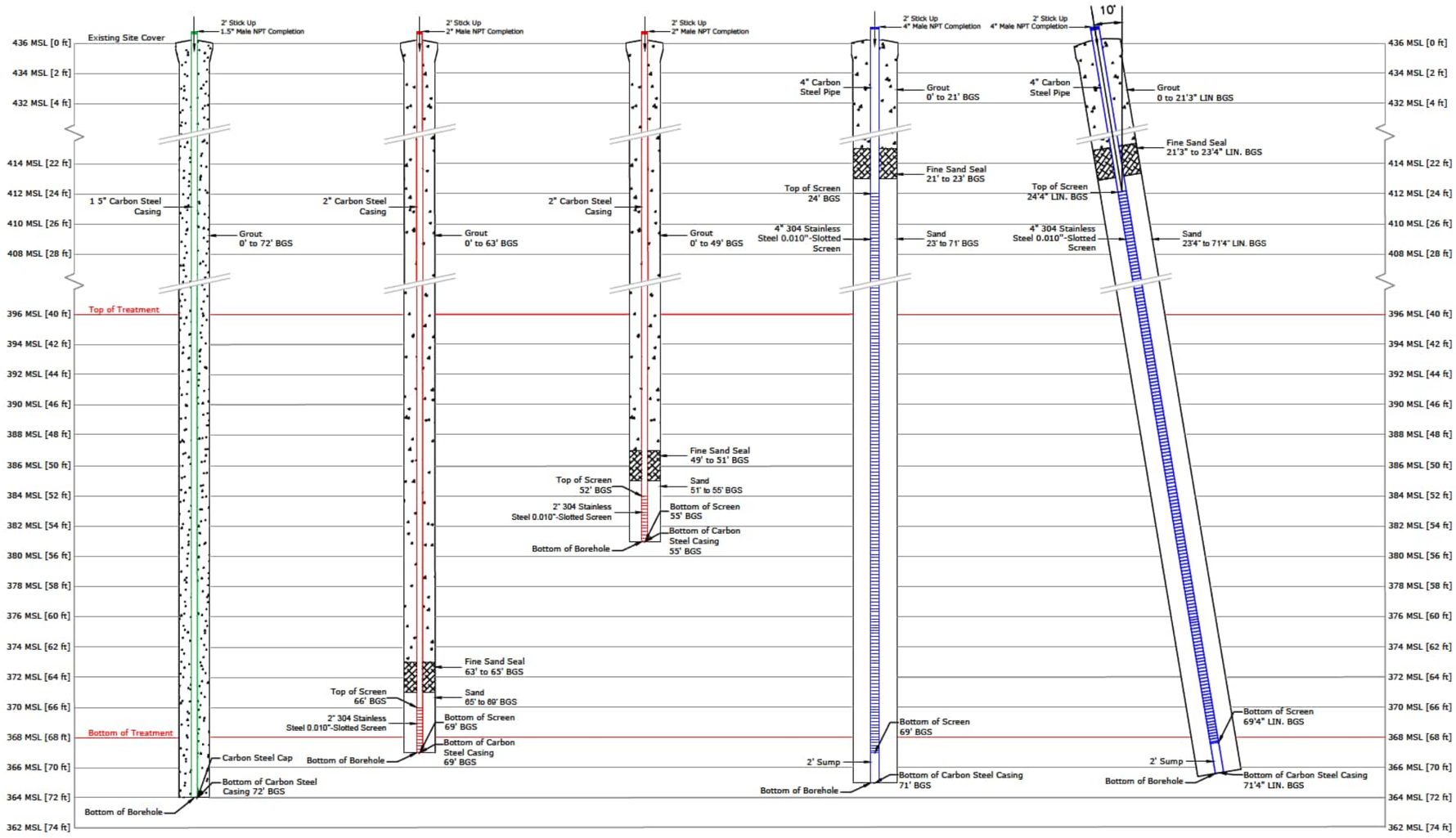
DIGITAM™ TEMPERATURE SENSOR WELL QUANTITY - 1

STEAM INJECTION WELL QUANTITY - 7

SHALLOW STEAM INJECTION WELL QUANTITY - 3

MULTIPHASE EXTRACTION WELL QUANTITY - 3

ANGLED MULTIPHASE EXTRACTION WELL QUANTITY - 1



GENERAL NOTES:

1. MATERIAL TYPES
   - A. GROUT
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   - B. SAND
     - FINE SAND SEAL: 40/60 SILICA SAND
     - STEAM INJECTION/EXTRACTION WELLS: 20/40 SILICA SAND
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   - C. NOMINAL 2" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010"-SLOTTED SCREEN
3. TEMPERATURE WELLS
   - A. MINIMUM 4" DIAMETER BOREHOLE
   - B. 1.5" SCHEDULE 40 CARBON STEEL CASING
   - C. THREADS CAN BE NPT OR FLUSH JOINT
   - D. STICKUP MUST BE MALE NPT
   - E. ALL JOINTS TO BE TIGHTENED WITH PIPE WRENCH USING PIPE THREAD COMPOUND AND PTFE TAPE
4. MULTIPHASE EXTRACTION WELLS
   - A. MINIMUM 8" DIAMETER BOREHOLE
   - B. 4" SCHEDULE 40 CASING
   - C. NOMINAL 4" DIAMETER WIRE-WRAPPED 304 STAINLESS STEEL 0.010''-SLOTTED SCREEN
   - D. FITTINGS BETWEEN PIPE SECTIONS ARE 4 THREAD PER INCH (TPI) FLUSH THREADED UNLESS SPECIFIED OTHERWISE (IE M NPT OR PLUG)
   - E. 4" NPT FEMALE X WELD PLATE ENDS

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REV.	DATE (YYMMDD)	DESCRIPTION	DRAWN BY	ORIG/ ENGR	Approved Dist
C2	2023/09/06	100% DESIGN - Well Count Adjusted	CW	CW	CC
C1	2023/07/20	FOR CONSTRUCTION	JS	JS	CC
A2	2023/07/17	SHALLOW SI AND ANGLED X WELLS	JS	JS	CC
A1	2023/07/11	NOT FOR CONSTRUCTION	EB	JS	--

LPE:

DATE:

APEGA PERMIT NUMBER: P09178

SCALE: NOT TO SCALE

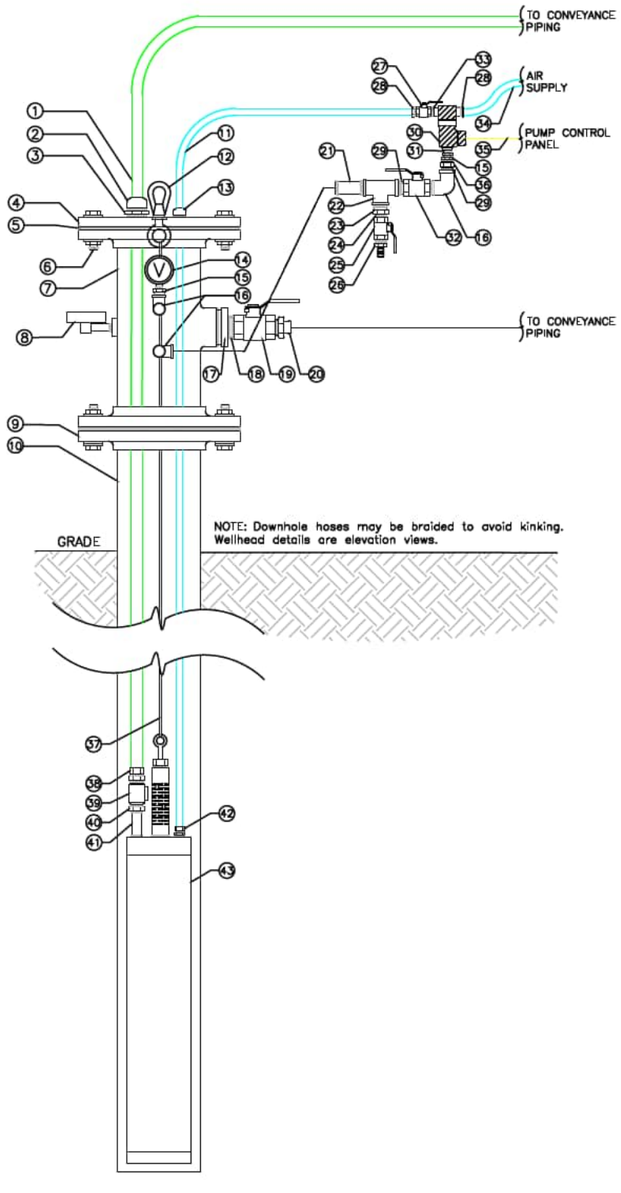
TITLE: **SEE Well Completion Drawing**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **WCD-04**

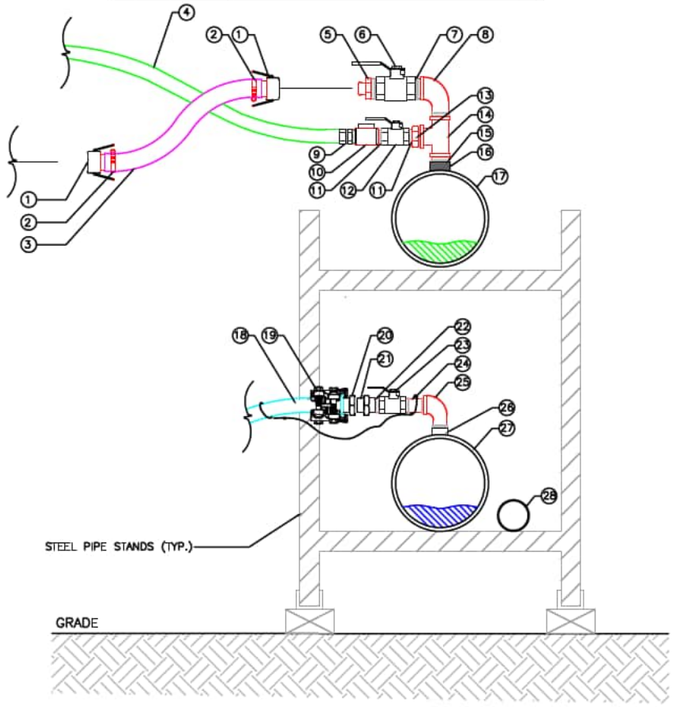
MULTIPHASE EXTRACTION WELL WITH DOWNHOLE PUMP



WELLHEAD COMPONENTS

1. 3/4" ID PTFE GROUNDWATER EXTRACTION LINE
2. 3/4" X 1" M NPT CORD GRIP, PVDF
3. 1" F NPT X 1-1/4" M NPT BUSHING, GALV
4. 4" ø 150# WELL COVER PLATE, STEEL
5. 4" ø 150# X 1/8" GASKET, VITON (TYP.)
6. 5/8" BOLT, LOCK WASHER & HEX NUT, ZINC (TYP.)
7. 4" ø Mc² WELLHEAD X 150# FLANGE ENDS, STEEL
8. TEMPERATURE GAUGE 0-250°F X 1/2" M NPT
9. 4" ø 150# FLANGE X 4" F NPT, STEEL
10. 4" ø M NPT RISER STICKUP, CARBON STEEL
11. 1/4" ID PTFE COMPRESSED AIR INJECTION LINE
12. 1/2" LIFTING EYE ASSEMBLY, WITH GASKET
13. 3/8" X 3/4" M NPT CORD GRIP, PVDF
14. VACUUM GAUGE, 0-30" HG X 1/4" M NPT
15. 1/2" M NPT X 1/4" F NPT BUSHING, BRASS
16. 1/2" NPT STREET ELBOW, BRASS
17. 2" M NPT X 1-1/2" F NPT REDUCER BUSHING, GALV.
18. 1-1/2" NPT CLOSE NIPPLE, GALV.
19. 1-1/2" NPT BALL VALVE, BRASS
20. 1-1/2" M NPT X 1-1/2" MALE CAMLOCK (PART F), ALUM. ALLOY
21. 1/2" NPT X 3" LONG NIPPLE, GALV.
22. 1/2" NPT PIPE TEE, GALV.
23. 1/2" M NPT X 3/8" F NPT BUSHING, BRASS
24. 3/8" NPT CLOSE NIPPLE, GALV.
25. 3/8" NPT BALL VALVE, BRASS
26. 3/8" M NPT X 1/4" HOSE BARB, BRASS
27. 1/4" NPT 1/2 TURN BALL VALVE
28. 1/4" M NPT X 3/8" OD PUSH TO CONNECT FITTING
29. 1/2" NPT CLOSE NIPPLE, GALV.
30. 1/4" F NPT X 1/4" F NPT X 10-32 F STRAIGHT DIRECT ACTING THREE-WAY SOLENOID VALVE, NORMALLY CLOSED
31. 1/4" M NPT X 10-32 M STRAIGHT ADAPTER
32. 1/2" NPT BALL VALVE, BRASS
33. 1/4" NPT CLOSE NIPPLE, GALV.
34. 3/8" POLYURETHANE COMPRESSED AIR CONVEYANCE TUBING
35. SOLENOID CONTROL CABLE
36. 1/2" F NPT UNION
37. LOWERING TECHNORA ROPE
38. 1/2" M NPT X 3/4" COMPRESSION FITTING, BRASS
39. 1/2" SWING CHECK VALVE, BRASS
40. 1/2" M NPT X 3/8" F NPT BUSHING, BRASS
41. 3/8" X 3" NIPPLE, STAINLESS STEEL
42. 1/8" M NPT X 3/8" COMPRESSION FITTING, BRASS
43. PNEUMATIC PUMP COMPLETE WITH TOP LOADING SCREEN

MULTIPHASE EXTRACTION WELL CONNECTION TO CONVEYANCE PIPING NETWORK

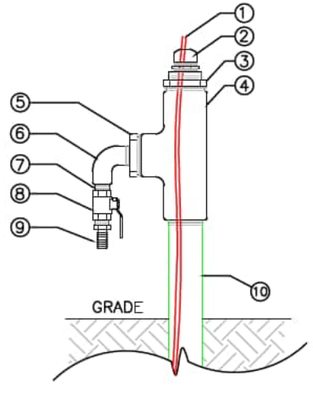


NOTE: Main conveyance pipe is interconnected with dresser couplings and sloped at approximately 1 degree from horizontal towards the inlet of the treatment system. Multiphase flow regime may not be as illustrated. Details are elevation views.

PIPING CONNECTION COMPONENTS

1. 1-1/2" F CAMLOCK X 1-1/2" HOSE BARB (PART C), ALUM. ALLOY
2. 1-1/2" HOSE CLAMP
3. 1-1/2" ID PARKER SERIES 7373T BLUE THUNDER CORRUGATED CHEMICAL SUCTION VAPOR EXTRACTION HOSE
4. 3/4" ID PTFE GROUNDWATER EXTRACTION HOSE
5. 1-1/2" M CAMLOCK X 1-1/2" M NPT (PART F), ALUM. ALLOY
6. 1-1/2" NPT BALL VALVE, BRASS
7. 1-1/2" NPT CLOSE NIPPLE, GALV.
8. 1-1/2" NPT STREET ELBOW, GALV.
9. 1/2" M NPT X 3/4" COMPRESSION FITTNG, BRASS
10. 1/2" NPT SWING CHECK VALVE, BRASS
11. 1/2" NPT CLOSE NIPPLE, BRASS
12. 1/2" NPT BALL VALVE, BRASS
13. 1-1/2" M NPT X 1/2" F NPT REDUCER BUSHING, GALV.
14. 1-1/2" F NPT PIPE TEE, GALV.
15. 1-1/2" NPT CLOSE NIPPLE, GALV.
16. 1-1/2" F NPT COUPLET, CARBON STEEL
17. 4" TO 8" ø PIPE HEADER, CARBON STEEL
18. 1" STEAM HOSE
19. 1" COLLAR LOCK BOLT CLAMP, PLATED DUCTILE IRON
20. 1" HAMMER LOCK ASSEMBLY, ZINC PLATED DUCTILE IRON
21. 1" F NPT UNION, SS
22. 1" NPT CLOSE NIPPLE, SS
23. 1" NPT BALL VALVE, SS
24. 1" M NPT 2" LONG NIPPLE
25. 1" NPT STREET ELBOW, GALV.
26. 1" F NPT WELDOLET, CARBON STEEL
27. 2" to 3" ø STEAM HEADER, CARBON STEEL
28. 1" ø AIR SUPPLY LINE, CARBON STEEL

TEMPERATURE MONITORING POINT



TEMPERATURE COMPONENTS

1. TEMPERATURE SENSOR STRING, 3/8" STRING DIA.
2. 3/8" X 1" M NPT CORD GRIP, NYLON
3. 1-1/2" M NPT X 1" F NPT BUSHING, GALV.
4. 1-1/2" NPT PIPE TEE, GALV.
5. 1-1/2" M NPT X 3/8" F NPT BUSHING, GALV.
6. 3/8" NPT STREET ELBOW, GALV.
7. 3/8" NPT CLOSE NIPPLE, GALV.
8. 3/8" NPT BALL VALVE, BRASS
9. 3/8" M NPT X 1/4" HOSE BARB, BRASS
10. 1-1/2" M NPT CARBON STEEL RISER STICKUP

NOTE: Wellhead details are elevation views.

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REV.	DATE (D/M/Yr)	DESCRIPTION	DRAWN BY	ORIG/ ENGR	Aprvwd Dist
C3	2023/09/07	UPDATED TITLE BLOCK	CW	CW	
C2	2023/06/10	FINAL BASED ON MAT.REQ.	JS	JS	CC
C1	2022/01/07	100% DESIGN	JS	CC	CC
B3	2021/10/26	UPDATE VAPOR EXTRACTION HOSE	JS	CC	CC
B2	2021/09/28	90% DESIGN	JS	CC	CC
B1	2021/09/27	60% DESIGN	JS	CC	CC

LPE

DATE

APEGA PERMIT NUMBER: P09178

SCALE: NOT TO SCALE

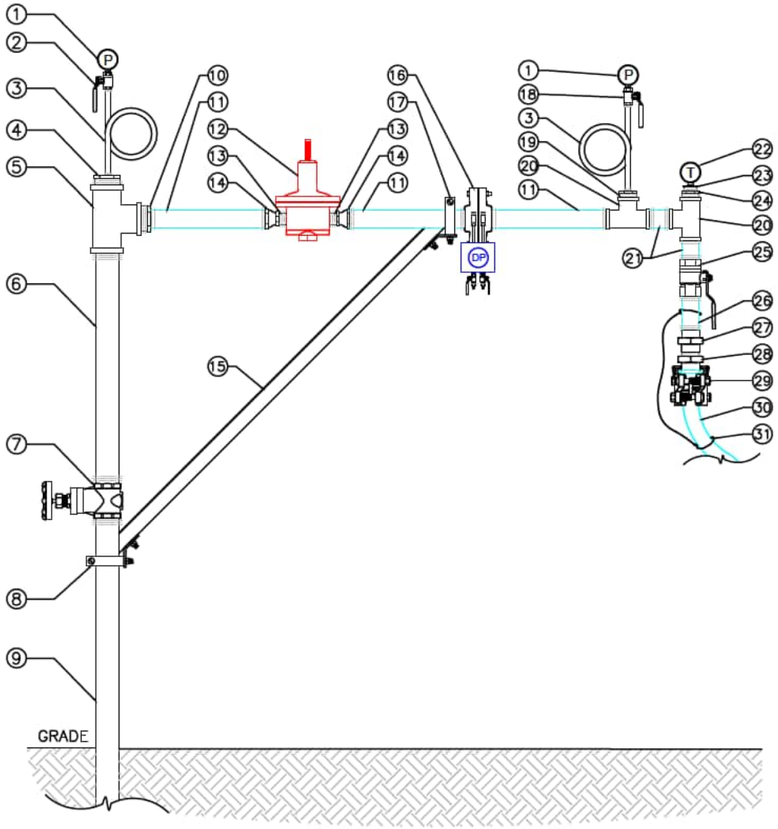
TITLE: **SEE Well Head Details**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **WHD-01**

STEAM INJECTION WELL METERING STATION

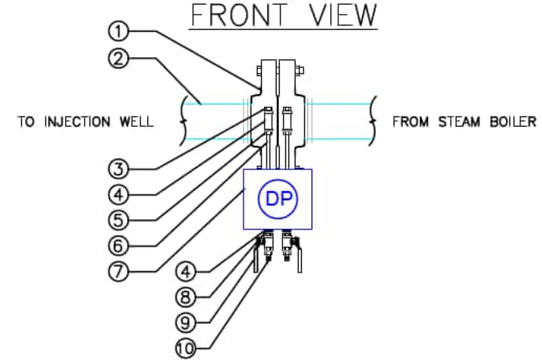


WELLHEAD COMPONENTS

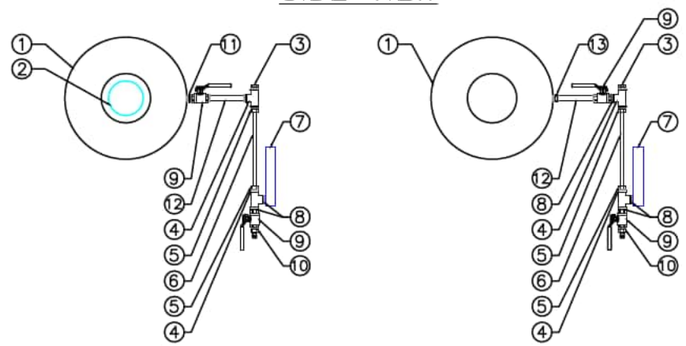
1. 1/4" M NPT 0–200 PSI DRY BOTTOM MOUNT PRESSURE GAUGE
2. 1/4" NPT FULL PORT BALL VALVE, BRASS
3. 1/4" M NPT PIGTAIL SYPHON, CARBON STEEL
   - 500 PSI PRESSURE RATING
   - 400°F TEMPERATURE RATING
4. 2" M NPT X 1/4" F NPT REDUCER BUSHING, BLACK STEEL
5. 2" NPT PIPE TEE, BLACK STEEL
6. 2" M NPT 2' LONG NIPPLE, BLACK STEEL
7. 2" F NPT GATE VALVE, BRASS
8. 2" CONDUIT HANGER AND 45° ANGLE BRACKET ASSEMBLY
9. 2" M NPT RISER STICKUP, CARBON STEEL
10. 2" M NPT X 1' F NPT REDUCER BUSHING, BLACK STEEL
11. 1" M NPT 1' LONG NIPPLE, BLACK STEEL
12. 1/2" F NPT STEAM PRESSURE REGULATOR, 10–30 PSI OUTLET PRESSURE, CAST IRON
13. 1/2" M NPT CLOSE NIPPLE, BLACK STEEL
14. 1" F NPT X 1/2" F NPT REDUCER COUPLING, BLACK STEEL
15. UNISTRUT BRACE
16. ORIFICE PLATE METERING ASSEMBLY:
    - #150 FF THREADED A105 CORNER TAP FLANGE (1/8" TAP), CARBON STEEL
    - DIFFERENTIAL PRESSURE GAUGE, 0–5 PSI DP
    - ECCENTRIC ORIFICE PLATE COMPLETE WITH WEEP HOLE (SIZED FOR 150 PSI SYSTEM)
17. 1" CONDUIT HANGER AND 45° ANGLE BRACKET ASSEMBLY
18. 1/4" NPT FULL PORT BALL VALVE, STAINLESS STEEL
19. 1" M NPT X 1/4" F NPT REDUCER BUSHING, BLACK STEEL
20. 1" NPT PIPE TEE, BLACK STEEL
21. 1" M NPT 2" LONG NIPPLE, BLACK STEEL
22. 1/2" M NPT 50–500°F TEMPERATURE GAUGE
23. 3/4" M NPT X 1/2" F NPT THERMOWELL, STAINLESS STEEL
24. 1" M x 3/4" F REDUCER BUSHING
25. 1" NPT FULL PORT BALL VALVE, STAINLESS STEEL
26. 1" M NPT 3–1/2" LONG NIPPLE, BLACK STEEL
27. 1" F NPT UNION, STAINLESS STEEL
28. 1" M NPT HAMMER LOCK ASSEMBLY, ZINC PLATED DUCTILE IRON
29. 1" COLLAR LOCK ASSEMBLY, PLATED DUCTILE IRON
30. 1" GREENLINE G572–100 EPDM STEAM HOSE
31. SAFETY LANYARD

ORIFICE PLATE METERING ASSEMBLY DETAILS

FRONT VIEW



SIDE VIEW



ORIFICE PLATE COMPONENTS

1. 1" F NPT #150 FF THREADED CORNER TAP FLANGE ASSEMBLY COMPLETE WITH ECCENTRIC ORIFICE PLATE
2. 1" M NPT 1' LONG NIPPLE, BLACK STEEL
3. 1/4" M NPT PLUG, BRASS
4. 1/4" NPT PIPE TEE, BRASS
5. 1/4" M NPT X 1/4" COMPRESSION FITTING, BRASS
6. 1/4" COPPER TUBING, 1' LONG
7. 1/4" F NPT DIFFERENTIAL PRESSURE GAUGE, 0–5 PSI DP
8. 1/4" NPT CLOSE NIPPLE, BRASS
9. 1/4" NPT FULL PORT BALL VALVE, BRASS
10. 1/4" M NPT X 1/4" HOSE BARB, BRASS
11. 1/8" M NPT X 1/4" M NPT REDUCER COUPLING, BRASS
12. 1/4" M NPT 6" LONG NIPPLE, BRASS
13. 1/8" M NPT X 1/4" F NPT REDUCER COUPLING, BRASS

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REV.	DATE (D/M/Y)	DESCRIPTION	DRAWN BY	ORG/ ENGR	Aprovd Dist
C4	2023/09/08	UPDATED TITLE BLOCK	CW	CW	
C3	2023/09/07	UPDATED TITLE BLOCK	CW	CW	
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C1	2022/01/07	100% DESIGN	JS	CC	CC
B3	2021/10/28	UPDATE STEAM HOSE SPECS.	JS	CC	CC
B2	2021/09/28	90% DESIGN	JS	CC	CC

LPE

DATE

APEGA PERMIT NUMBER: P09178

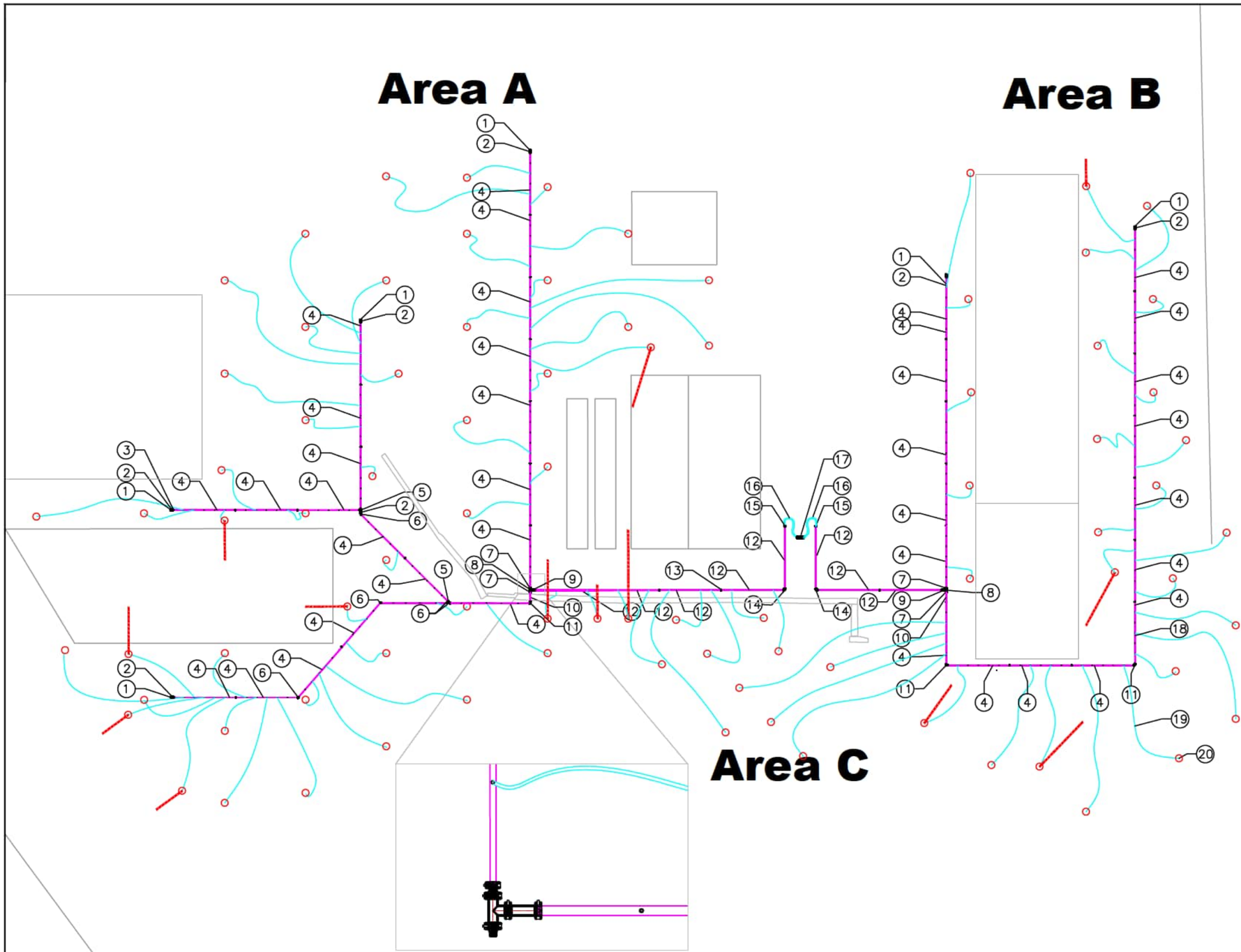
SCALE: NOT TO SCALE

TITLE: **SEE Well Head Details**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **WHD-02**



STEAM PIPING COMPONENTS

1. 2" VICTAULIC CAPS, PART No. 860C
2. 2" VICTAULIC DRIP LEG, PART No. 892C, SEE SPD-02
3. 2" VICTAULIC COUPLING, USED AT EVERY 2" TO 2" CONNECTION POINT, PART No. 870
4. 2" CARBON STEEL PIPE, 20' SEGMENT COMPLETE WITH:
   A. GROOVES COMPATIBLE WITH 2" VICTAULIC FITTINGS; AND
   B. 5 EVENLY-SPACED 1" NPT THREADED WELDOLET CONNECTIONS
5. 2" VICTAULIC TEE, PART No. 820C
6. 2" VICTAULIC 45 DEGREE ELBOW, PART No. 811C
7. 2" x 3" VICTAULIC CONCENTRIC REDUCER, PART No. 850C
8. 3" VICTAULIC TEE, PART No. 820C
9. 3" VICTAULIC DRIP LEG, PART No. 892C SEE SPD-02
10. 2" CARBON STEEL PIPE, 3' SEGMENT COMPLETE WITH:
    A. GROOVES COMPATIBLE WITH 2" VICTAULIC FITTINGS
11. 2" VICTAULIC 90 DEGREE ELBOW, PART No. 890C
12. 3" CARBON STEEL PIPE, 20' SEGMENT COMPLETE WITH:
    A. GROOVES COMPATIBLE WITH 3" VICTAULIC FITTINGS; AND
    B. 5 EVENLY-SPACED 1" NPT THREADED WELDOLET CONNECTIONS
13. 3" VICTAULIC COUPLING, USED AT EVERY 3" TO 3" CONNECTION POINT, PART No. 870
14. 3" VICTAULIC 90 DEGREE ELBOW, PART No. 890C
15. 3" VICTAULIC 150# FLANGE ADAPTER NIPPLE, PART No. 845FC
16. 3" STEAM HOSE COMPLETE WITH 150# FLANGE ON BOTH ENDS
17. 3" TEE, FLANGED, DETAILS AND CONNECTION TO BOILER TBD
18. 1" THICK OWENS CORNING INSULATION, 3' LENGTH, TO COVER ALL 2" AND 3" PIPING
19. 1" GREENLINE G572-100 EPDM STEAM HOSE, VARIBALE LENGTHS
20. STEAM INJECTION WELLHEAD CONNECTION, SEE WHD-02

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REV.	DATE (D/M/Y)	DESCRIPTION	DRAWN BY	ORIG ENGR	Approval Dist
C2	2022/10/12	UPDATE WITH 3D INFORMATION	JS	JS	CC
D1	2024/02/05	AS-BUILT	CC	DR	DR
C6	2023/09/07	UPDATE TITLE BLOCK	CW	CW	
C5	2023/07/18	LOCATIONS UPDATE	DN		
C4	2023/07/17	ADDTIONAL WELLS	DN		
C3	2023/07/10	AREA C ADDITION	DN		

APEGA PERMIT NUMBER: P09178
SCALE: NOT TO SCALE

TITLE: **Steam Piping Details**

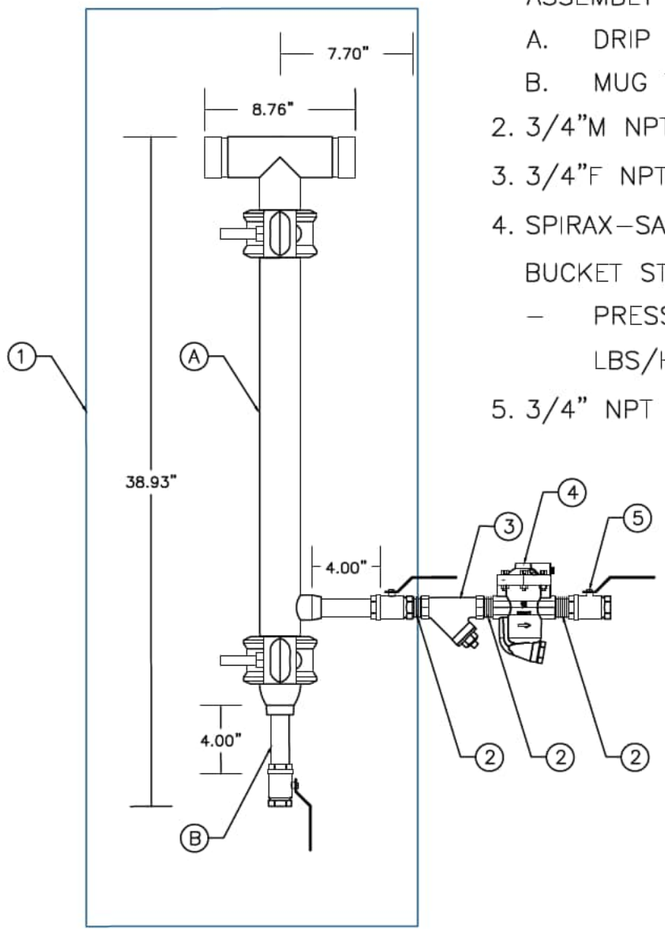
CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **SPD-01**

2" DRIP LEG AND STEAM TRAP COMPONENTS

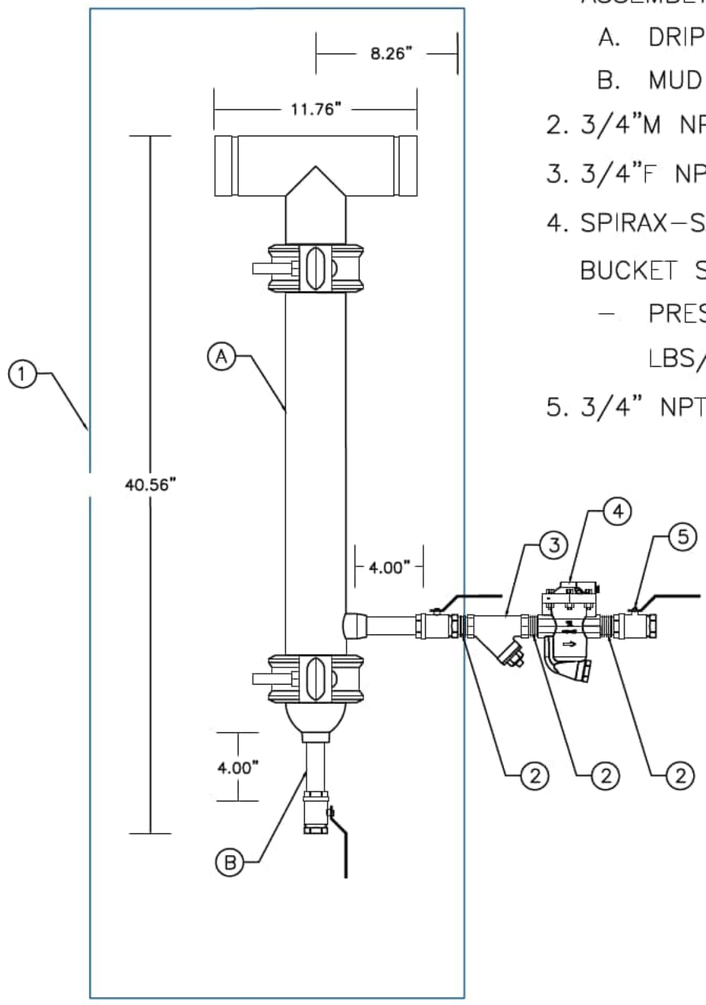
1. 2" VICTAULIC No. 892C SCHEDULE 40 AUTOMATIC WARM UP IN–LINE DRIP LEG ASSEMBLY
   A. DRIP LEG
   B. MUG TRAP
2. 3/4"M NPT CARBON STEEL NIPPLE
3. 3/4"F NPT CARBON STEEL Y–STRAINER
4. SPIRAX–SARCO H34/7 3/4" INVERTED BUCKET STEAM TRAP
   – PRESSURE RATED TO 175 PSI AT 165 LBS/H OF CONDENSATE
5. 3/4" NPT BALL VALVE, BRASS



2" VICTAULIC DRIP LEG ASSEMBLY

3" DRIP LEG AND STEAM TRAP COMPONENTS

1. 3" VICTAULIC No. 892C SCHEDULE 40 AUTOMATIC WARM UP IN–LINE DRIP LEG ASSEMBLY
   A. DRIP LEG
   B. MUD TRAP
2. 3/4"M NPT CARBON STEEL NIPPLE
3. 3/4"F NPT CARBON STEEL Y–STRAINER
4. SPIRAX–SARCO H34/7 3/4" INVERTED BUCKET STEAM TRAP
   – PRESSURE RATED TO 175 PSI AT 165 LBS/H OF CONDENSATE
5. 3/4" NPT BALL VALVE, BRASS



3" VICTAULIC DRIP LEG ASSEMBLY

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DATE

REV.	DATE (D/M/YY)	DESCRIPTION	DRAWN BY	ORG/ ENGR	Approved Dist
C3	2023/05/08	FINAL ISSUE	CW	CW	–
C2	2023/05/07	UPDATED TITLE BLOCK	CW	CW	–
C1	2022/01/07	90% DESIGN	JS	CC	CC
B1	2021/09/28	90% DESIGN	JS	CC	CC
A1	2021/09/20	DRAFT FOR REVIEW	JS	CC	–

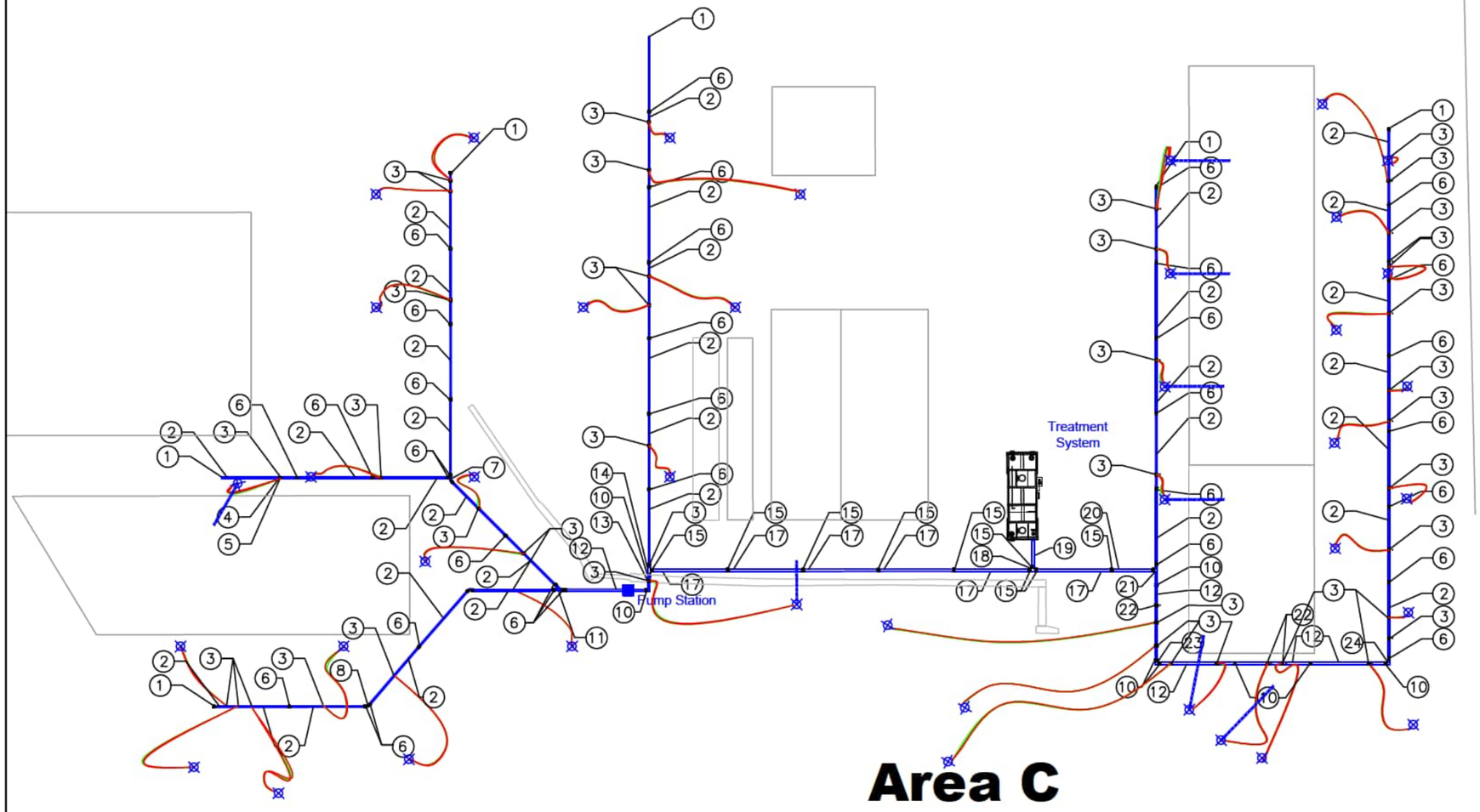
APEGA PERMIT NUMBER: P09178 — SCALE: NOT TO SCALE

TITLE: **Steam Piping Details**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **SPD-02**



EXTRACTION PIPING COMPONENTS

1. 4" CARBON STEEL PIPE CAP
2. 4" CARBON STEEL PIPE, 20' LENGTH
3. 4" PIPE SADDLE WITH 1/2" CONNECTION POINT
4. 1/2" PTFE GROUNDWATER EXTRACTION LINE TO EXTRACTION WELLHEAD, VARIABLE LENGTH
5. 1-1/2" PARKER SERIES 7373T BLUE THUNDER CORRUGATED CHEMICAL SUCTION HOSE VAPOR EXTRACTION LINE TO EXTRACTION WELLHEAD, VARIABLE LENGTH
6. 4" DRESSER COUPLING WITH VITON GASKETS
7. CUSTOM WELDED 4" TEE COMPLETE WITH 45 DEGREE ELBOW
8. CUSTOM WELDED 4" 45 DEGREE ELBOW
9. 4" CARBON STEEL PIPE, 17' LENGTH
10. 6" DRESSER COUPLING WITH VITON GASKETS
11. CUSTOM WELDED TEE COMPLETE WITH 45 DEGREE ELBOW
12. 6" CARBON STEEL PIPE, 20' LENGTH
13. CUSTOM WELDED 6" ELBOW
14. CUSTOM WELDED TEE
15. 8" DRESSER COUPLING WITH VITON GASKETS
16. 8" CARBON STEEL PIPE, 15' LENGTH
17. 8" CARBON STEEL PIPE, 20' LENGTH
18. CUSTOM WELDED TEE
19. 8" CARBON STEEL PIPE, 7' LENGTH
20. 8" CARBON STEEL PIPE, 11' LENGTH
21. CUSTOM WELDED TEE
22. 6" PIPE SADDLE
23. CUSTOM WELDED 6" ELBOW
24. CUSTOM WELDED ELBOW

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DATE

REV.	DATE (D/M/YY)	DESCRIPTION	DRAWN BY	ORG/ ENGR	Approved Dist
C2	2022/10/13	UPDATE WITH 3D INFORMATION	JS	JS	CC
D1	2024/02/06	AS-BUILT	CC	DR	DR
C6	2023/09/07	UPDATE TITLE BLOCK	CW	CW	
C5	2023/07/18	LOCATIONS UPDATE	DN		
C4	2023/07/17	ADDITIONAL WELLS	DN		
C3	2023/07/10	AREA C ADDITION	DN		

APEGA PERMIT NUMBER: P09178 | SCALE: NOT TO SCALE

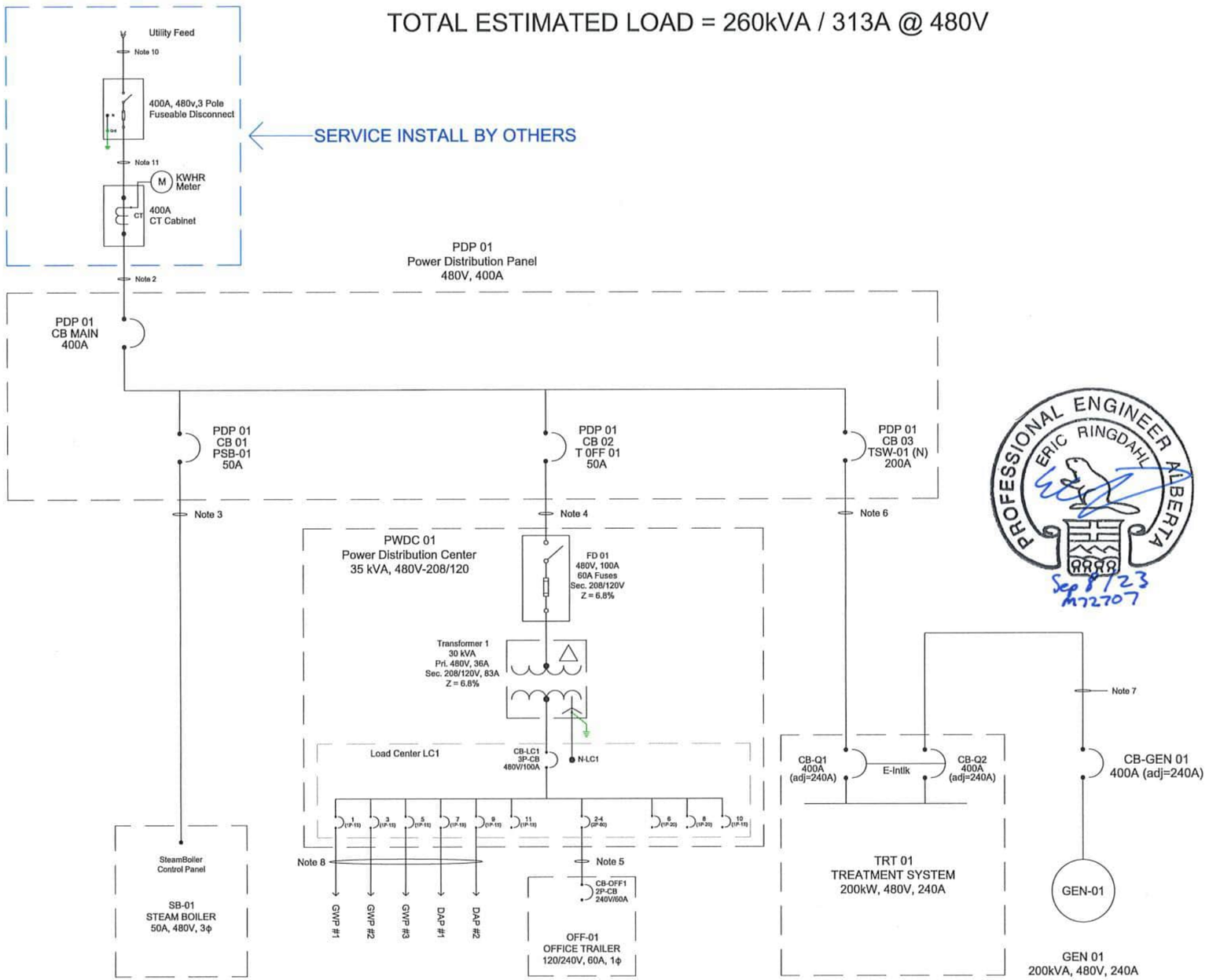
TITLE: **Extraction Piping Details**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard, Roxana, Illinois**

SHEET: **EPD-01**

TOTAL ESTIMATED LOAD = 260kVA / 313A @ 480V



PROFESSIONAL ENGINEER ALBERTA ERIC RINGDAHL

Sept 8/23
M72707

General Notes

1. Construction and material shall comply with applicable Federal, State, local building codes and the National Electrical Code (NEC).

2. Cable from Metering Cabinet to PDP 01 (CB Main): Two (2) 3C-250 kcmil c/w #2 AWG AL Ground *(STR AL NUAL Alcan Type ACWU90 XLPE INS AIA BLK PVC JKT 600V 90C HL CSA C22.2 NO.51, above ground install).*

3. Cable from PDP 01 (CB 01) to SB-01 Control Panel: One (1) 3C-#4 AWG c/w #6 AWG AL Ground *(STR AL NUAL Alcan Type ACWU90 XLPE INS AIA BLK PVC JKT 600V 90C HL CSA C22.2 NO.51, above ground install).*

4. Cable from PDP 01 (CB 02) to PWDC - FD01: One (1) 3C-#4 AWG c/w #6 AWG AL Ground *(STR AL NUAL Alcan Type ACWU90 XLPE INS AIA BLK PVC JKT 600V 90C HL CSA C22.2 NO.51, above ground install).*

5. Cable from PWDC - LC1 to Office trailer OFF-01: One (1) 3C-#4 AWG c/w #6 AWG AL Ground *(STR AL NUAL Alcan Type ACWU90 XLPE INS AIA BLK PVC JKT 600V 90C HL CSA C22.2 NO.51, above ground install)*

6. Cable from PDP 01 (CB 03) to Treatment System (CB Q1) : One (1) 3C-250 kcmil c/w #2 AWG AL Ground *(STR AL NUAL Alcan Type ACWU90 XLPE INS AIA BLK PVC JKT 600V 90C HL CSA C22.2 NO.51, above ground install).*

7. Cable from GEN-01 to Treatment System (CB Q2): One (1) 3C-250 kcmil c/w #2 AWG Cu Ground *(STR AL NUAL Alcan Type ACWU90 XLPE INS AIA BLK PVC JKT 600V 90C HL CSA C22.2 NO.51, above ground install).*

8. Cable from each Ground Water Panel (GWP) and Data Acquisition Panel (DAP) from Load Center LC1 to be one 2c #14 AWG CU Teck cable c/w a #14 AWG Cu ground (XLPE/PVC/AIA/PVC). Above ground iinstall.

9. All electrical equipment shall be grounded in accordance with NEC.

10. Service conductors from Utility feed connection to 400A fused weaterproof (NEMA 3R) disconnect: Two (2) parallel runs of the following; Four (4) 3/0 AWG Cu conductors in conduit. (MATERIAL AND INSTALLATION BY OTHERS).

11. Service conductors from 400A fused disconnect to Meter cabinet: Two (2) parallel runs of the following; Four (4) 3/0 AWG Cu conductors in conduit. (MATERIAL AND INSTALLATION BY OTHERS).

12. SERVICE EQUIPMENT (DISCONNECT, METERING CABINET, CABLE and CONDUITS) MATERIAL AND INSTALLATION BY OTHERS.

PERMIT TO PRACTICE
McMILLAN-McGEE CORP
RM SIGNATURE:
RM APEGA ID #: 187182
DATE: Sept 8th 2023
PERMIT NUMBER: P009178
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

McMILLAN-McGEE CORP

McMILLAN-McGEE CORP.
ELECTROMAGNETIC SYSTEMS AND SERVICES FOR THE ENERGY AND ENVIRONMENTAL INDUSTRIES
4895 - 35B STREET SE
CALGARY, AB T2B 3M9 CANADA
WWW.MCMILLAN-MCGEE.COM
PH: 403.569.5100, FX: 403.272.7201

LPE

DATE

REV.	DATE (YY/MM/DD)	DESCRIPTION	DRAWN	ORG/ ENGR	APPR/ DIST
C2	2023/08/30	100%DESIGN	DP	CC	ER
C1	2022/01/07	100% DESIGN	DP	CC	CC
B1	2021/09/28	90% DESIGN	DP	CC	CC
A1	2021/08/26	DRAFT FOR REVIEW	DP	CC	
APEGA PERMIT NO.		P09178	SCALE:	NOT TO SCALE	

TITLE: **ELECTRICAL SINGLE LINE**

CLIENT: **AECOM**

PROJECT: **Roxana Public Works Yard**
Roxana, Illinois

SHEET: **ESL-01**

RMC²
ENVIRONMENTAL SOLUTIONS
St. AUGUSTO POLTRONIERI n°243, PARK COMERCIAL
13347-443 - INDAIATUBA-SP , BR
PHONE: +55 (19) 3936-2447

CLIENT :	McMillan-McGee
COUNTRY:	Roxana, Illinois - USA
TYPE :	ISTT
AREA:	Public Works Yard - between TTZ Areas
APPLICATION:	Steam injection with MPE

PROJECT NUMBER:	60.0002.002 - MPE SYSTEM
CONSULTANCY:	AECOM

- (ISA) International Society of Automation
- IEC 60617

TOTAL PAGES: 3

DESCRIPTION OF REVISIONS	
4	SUITABILITY OF PROCESS
5	POST FIELD INSTALLATION
6	POST FIELD CHANGES - BOOSTER BLOWER
7	AFTER AECOM REVIEW

P&ID

PIPING AND INSTRUMENTATION DIAGRAM

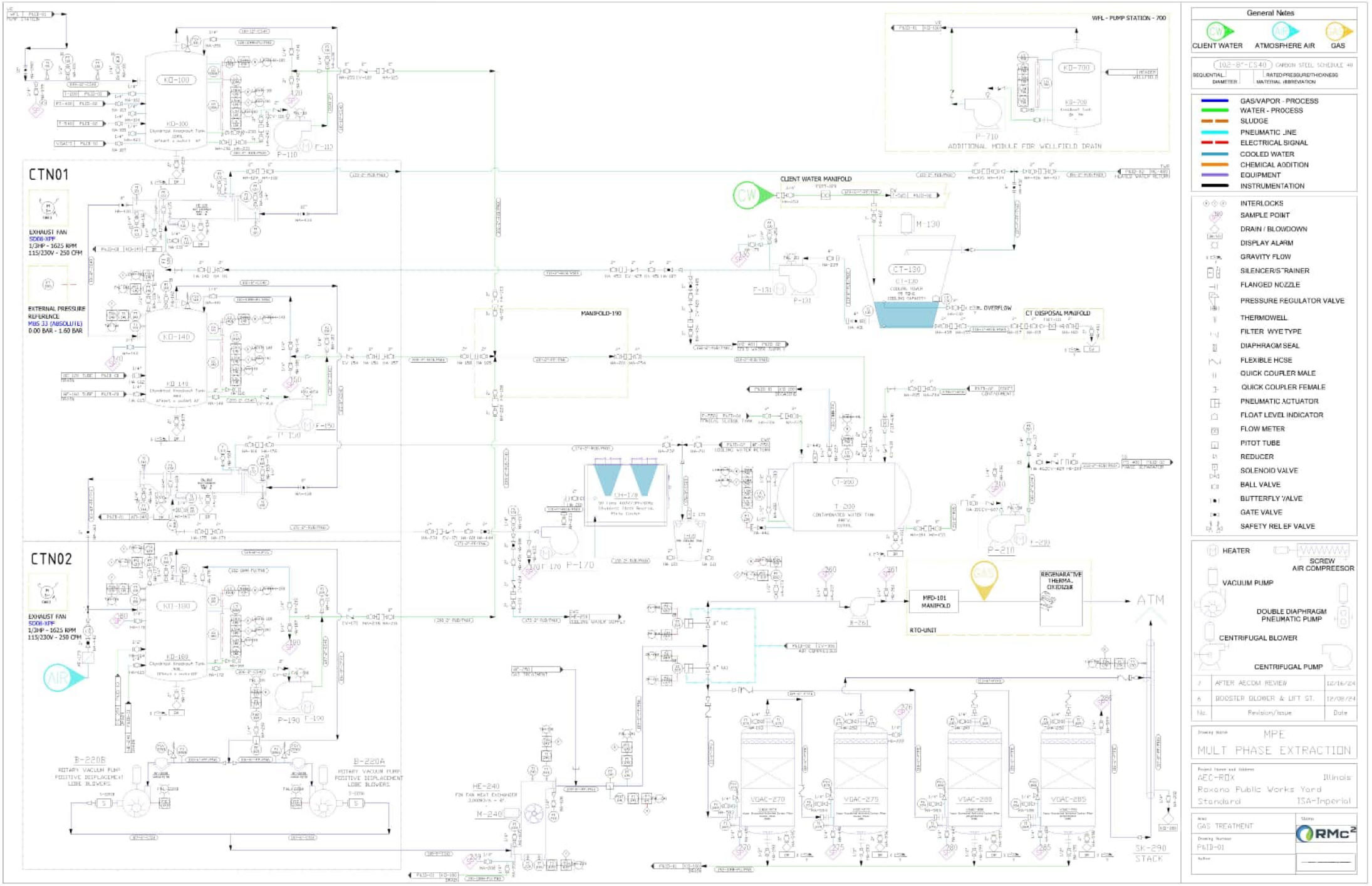
NEXT PAGE: 2

	REVIEW 4	REVIEW 5	REVIEW 6	REVIEW 7
DATE	09/06/23	11/07/23	12/08/24	12/16/24
DESIGNER	B.M	B.M	N.B.	N.B.
APPROVAL	C.B	C.B.		
CLIENT	D.A	D.A.		
EXECUTION				

PROCESS DATA	
Maximum vacuum:	12 inHg
Steam extraction flow :	1.799 SCFM /3056.52 m³/h
Liquid extraction range:	20 - 40.22 GPM / 4.5 - 9.13 m³/h
Total Injection steam:	5.000 - 10.000 lb/h / 2268 - 4536 kg/h
Operations:	± 180 days

PROCESS DIAGRAM - REV_ 7

PROJECT COVER



General Notes

CW CLIENT WATER · AIR ATMOSPHERE AIR · GAS GAS

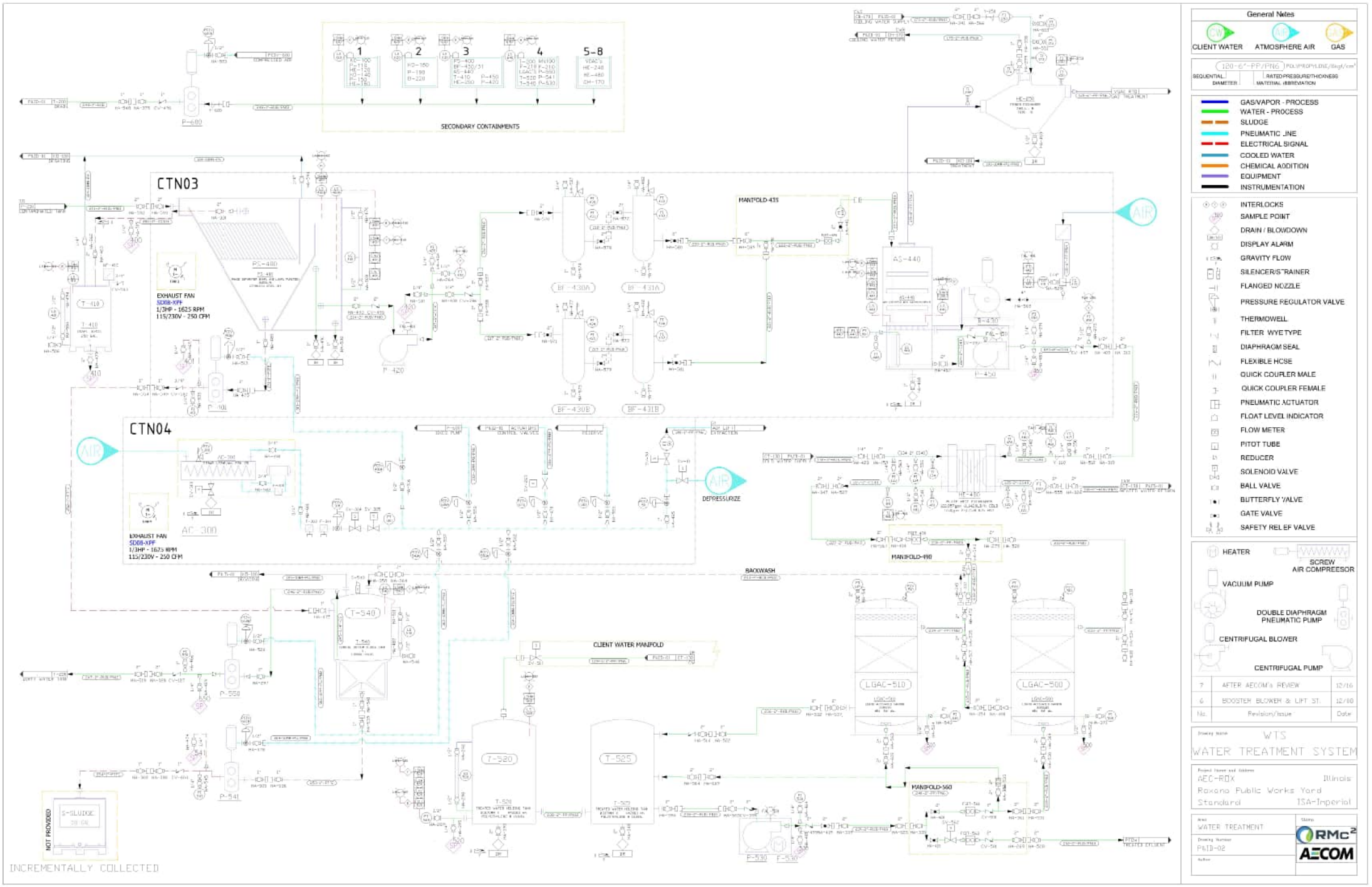
102-8"-CS40 CARBON STEEL SCHEDULE 40
SEQUENTIAL DIAMETER | RATED PRESSURE/THICKNESS | MATERIAL ABBREVIATION

- GAS/VAPOR - PROCESS
- WATER - PROCESS
- SLUDGE
- PNEUMATIC LINE
- ELECTRICAL SIGNAL
- COOLED WATER
- CHEMICAL ADDITION
- EQUIPMENT
- INSTRUMENTATION

- INTERLOCKS
- SAMPLE POINT
- DRAIN / BLOWDOWN
- DISPLAY ALARM
- GRAVITY FLOW
- SILENCER/STRAINER
- FLANGED NOZZLE
- PRESSURE REGULATOR VALVE
- THERMOWELL
- FILTER WYE TYPE
- DIAPHRAGM SEAL
- FLEXIBLE HOSE
- QUICK COUPLER MALE
- QUICK COUPLER FEMALE
- PNEUMATIC ACTUATOR
- FLOAT LEVEL INDICATOR
- FLOW METER
- PITOT TUBE
- REDUCER
- SOLENOID VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- SAFETY RELIEF VALVE

- HEATER
- SCREW AIR COMPRESSOR
- VACUUM PUMP
- DOUBLE DIAPHRAGM PNEUMATIC PUMP
- CENTRIFUGAL BLOWER
- CENTRIFUGAL PUMP

No.	Revision/Issue	Date
1	AFTER AECOM REVIEW	12/16/24
A	BOOSTER BLOWER & LIFT ST.	12/08/24



General Notes

CW CLIENT WATER · AIR ATMOSPHERE AIR · GAS

120-6"-PP/PN6 POLYPROPYLENE/Bar/cm²
SEQUENTIAL DIAMETER | RATED PRESSURE/THICKNESS | MATERIAL ABBREVIATION

- GAS/VAPOR - PROCESS
- WATER - PROCESS
- SLUDGE
- PNEUMATIC LINE
- ELECTRICAL SIGNAL
- COOLED WATER
- CHEMICAL ADDITION
- EQUIPMENT
- INSTRUMENTATION

- INTERLOCKS
- SAMPLE POINT
- DRAIN / BLOWDOWN
- DISPLAY ALARM
- GRAVITY FLOW
- SILENCER/STRAINER
- FLANGED NOZZLE
- PRESSURE REGULATOR VALVE
- THERMOWELL
- FILTER WYE TYPE
- DIAPHRAGM SEAL
- FLEXIBLE HOSE
- QUICK COUPLER MALE
- QUICK COUPLER FEMALE
- PNEUMATIC ACTUATOR
- FLOAT LEVEL INDICATOR
- FLOW METER
- PITOT TUBE
- REDUCER
- SOLENOID VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- SAFETY RELIEF VALVE

- HEATER
- SCREW AIR COMPRESSOR
- VACUUM PUMP
- DOUBLE DIAPHRAGM PNEUMATIC PUMP
- CENTRIFUGAL BLOWER
- CENTRIFUGAL PUMP

No.	Revision/Issue	Date
7	AFTER AECOM's REVIEW	12/16
6	BOOSTER BLOWER & LIFT ST.	12/08

Drawing Name: WTS
WATER TREATMENT SYSTEM

Project Name and Address: AEC-ROX, Illinois
Roxana Public Works Yard
Standard ISA-Imperial

Area: WATER TREATMENT
Drawing Number: P&ID-02
Author:

Stamp: RMC² AECOM

Appendix B – Boring Logs and Well Completion Reports

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-101

Starting Date: 12/5/22
Completion Date: 12/7/22
Casing Elevation: Not Installed
Ground Elevation: 443.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791990.582 Lat: 38.84168732
E: (Y): 2322103.096 Long: -90.07706778 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0					Air knifed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10							TOPSOIL	3" soil	
							SC	Very stiff, dry, strong brown (7.5 YR - 5/8), fine to medium grained clayey SAND (SC)	Begin geoprobe
				0.0					
		100		0.0			CL	6" of very stiff CLAY (CL) with trace sand	
							SP	Loose, dry, light brown (7.5 YR - 6/4), fine to medium grained SAND (SP) with silt	
				0.7					
				0.9				Becomes strong brown (7.5 YR - 5/8) with black to dark brown and orange banding	
15		80							
				0.6			CL	Very stiff, moist, brown (7.5 YR 5/4), medium to high plasticity CLAY (CL) for 6"	
				0.5					
							SM	Becomes strong brown (7.5 YR - 5/8) silty SAND (SM)	
								Becomes yellowish-brown (10 YR - 5/6)	
				0.0					
20				0.0					Sample SB101-20-120722 @0945
		87							Sample SB101-20-120722-MS
				0.0					Sample SB101-20-120722-MSD
				0.0					
							SC	Moist, medium stiff clayey SAND (SC) for 6"	
							SP	Loose, dry, yellowish brown (10 YR 5/6), fine to medium grained SAND (SP) with silt	
							SC	Soft, moist, clayey SAND (SC) for 3"	
		80		0.0			SM	Becomes silty SAND (SM)	

Completion Depth: 58.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SB_E

LOG OF BORING
SB-101

Starting Date: 12/5/22
Completion Date: 12/7/22
Casing Elevation: Not Installed
Ground Elevation: 443.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791990.582 Lat: 38.84168732
E: (Y): 2322103.096 Long: -90.07706778 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
							SM	SAME: Silty SAND (SM)	
		80		0.0			SC	Soft, moist, clayey SAND (SC) for 3"	
				0.0				Becomes silty SAND (SM)	
				0.5					
30				0.5					
		80		0.7			SM		
				0.5					
								Becomes pale brown (10 YR - 6/3) with thin black to dark brown banding	
				0.4					
35				0.7					
		87		0.5					
				0.5				Moist, yellowish brown (10 YR - 5/6), fine to coarse grained SAND (SW)	
				0.1					
40				0.0				▽	
		80						Becomes wet and gray (10 YR - 5/1)	
				0.4				Thin black banding for 3"	
							SW		
				0.4					
45				0.8				Becomes dark gray (10 YR - 4/1)	
		80		28.0					
				>5000					Sample SB101-47-120722 @1035
				59.0					
		60							
				148.0					

Completion Depth: 58.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-101

Starting Date: 12/5/22
Completion Date: 12/7/22
Casing Elevation: Not Installed
Ground Elevation: 443.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791990.582 Lat: 38.84168732
E: (Y): 2322103.096 Long: -90.07706778 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
							SW	SAME: Wet, dark gray (10 YR - 4/1), fine to coarse grained SAND (SW)	
		60		>5000				Loose, wet, dark gray (10 YR - 4/1), fine to medium grained SAND (SP) with silt	Strong benzene/hydrocarbon odor Sample SB101-51.5-120722 @1045
				>5000					
				12.9			SP		
55				43.3					
		100		11.7					Faint hydrocarbon odor 56-58' bgs
				30.5					
				70.4					
								Bottom of boring at 58' bgs	Rods stuck on attempted retrieval. Can go no deeper on this boring. Casing and rods recovered, but 20' of casing broke. Will step off 3' when new casing arrives. Boring backfilled with high solids grout via tremie to surface.
60									
65									
70									

Completion Depth: 58.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SB_E

LOG OF BORING
SB-101A

Starting Date: 12/16/22
Completion Date: 12/19/22
Casing Elevation: Not Installed
Ground Elevation: 443.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791991.150 Lat: 38.84168889
E: (Y): 2322099.064 Long: -90.07708193 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Blind drilled to 58' bgs For lithology, see boring log for SB-101 Air knifed to 10.5' bgs to clear utilities
10									Begin hollow stem auger
15									
20									Begin mud rotary drilling with split spoon sampling

Completion Depth: 68.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling, Inc.
Driller Name: M. Kwiatkowski
Drilling Method: HSA/Mud Rotary
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-101A

Starting Date: 12/16/22
Completion Date: 12/19/22
Casing Elevation: Not Installed
Ground Elevation: 443.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791991.150
E: (Y): 2322099.064
Lat: 38.84168889
Long: -90.07708193 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
30									SAME: Blind drilled to 58' bgs For lithology, see boring log for SB-101
35									
40								▽	
45									

Completion Depth: 68.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling, Inc.
Driller Name: M. Kwiatkowski
Drilling Method: HSA/Mud Rotary
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-101A

Starting Date: 12/16/22
Completion Date: 12/19/22
Casing Elevation: Not Installed
Ground Elevation: 443.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791991.150 Lat: 38.84168889
E: (Y): 2322099.064 Long: -90.07708193 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55									SAME: Blind drilled to 58' bgs For lithology, see boring log for SB-101
							SP	Loose, wet, dark gray (10 YR - 4/1) fine to medium grained SAND (SP) with silt	
		50	7 10 12 21	1.5 16.1			SW	Becomes fine to coarse grained SAND (SW) with trace silt	Reddish glob/sheen in drilling mud
60		50	13 15 12 18	5.0 192.7 39.4					Faint hydrocarbon odor 60-62' bgs
								1/4" thick black silty band	
		25	4 12 13 15	49.6 160.7			CL	Stiff to hard, gray (10 YR - 5/1), medium plasticity silty CLAY (CL) with trace fine to medium grained sand	
		36	7 10 18 28	21.4 49.8			SP	Wet, loose, gray (10 YR - 5/1), fine to medium grained SAND (SP) with trace silt	
65							CL	2" of silty CLAY (CL)	
		58	7 18 20 22	7.3 10.5			SP	Becomes SAND (SP) banded with black silty bands	Sample SB101A-67-121922 @1315
								Bottom of boring at 68' bgs	Boring backfilled with high solids grout via tremie to surface
70									

Completion Depth: 68.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling, Inc.
Driller Name: M. Kwiatkowski
Drilling Method: HSA/Mud Rotary
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-102

Starting Date: 12/5/22
Completion Date: 12/6/22
Casing Elevation: Not Installed
Ground Elevation: 435.76 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791892.106 Lat: 38.84141692
E: (Y): 2322104.543 Long: -90.07706304 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0 0.0 0.0 0.0 0.0 0.0 0.0					Air knifed to 8' bgs to clear utilities
10				0.0				Loose, dry, reddish brown (5 YR - 5/4), fine to medium grained SAND (SP) with silt	Begin hand auger
		100		0.0 0.0			SP	Becomes dark yellowish brown (10 YR - 4/4) Sporadic, thin silt stripes for 1'	Sample SB102-10-120522 @1225 Begin geoprobe
15		80		0.0 0.0 0.0 0.0				For 6" becomes strong brown (7.5 YR - 5/6), intermixed with black streaks (possible organics) Becomes dark yellowish brown (10 YR - 4/4) and fine grained	
20		80		0.0 0.0 0.0 0.0			SC SP	Stiff, dry, dark yellowish brown (10 YR 3/4), fine to coarse grained clayey SAND (SC) Loose, dry, light yellowish brown (10 YR - 6/4), fine to medium grained SAND (SP) with silt Becomes yellowish brown (10 YR - 5/6) for 6"	
		92		0.0 0.0				Becomes light brownish gray (10 YR - 6/2)	

Completion Depth: 73.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling, Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-102

Starting Date: 12/5/22
Completion Date: 12/6/22
Casing Elevation: Not Installed
Ground Elevation: 435.76 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791892.106 Lat: 38.84141692
E: (Y): 2322104.543 Long: -90.07706304 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		92		0.0 0.0 0.0			SP	SAME: Loose, dry, light brownish gray (10 YR - 6/2), fine to medium grained SAND (SP) with silt	
				0.0				Becomes brown (10 YR - 5/3)	
30		80		0.0 0.0 0.0				Dark brown silty streak	
				0.0 0.0			SW	Moist, strong brown (7.5 YR - 5/6), fine to coarse grained SAND (SW) with trace silt	
				0.1				Loose, wet, brown (10 YR - 4/3), fine to coarse grained SAND (SW) with silt	
35		70		0.1 0.9 2.9				Becomes dark gray (10 YR - 4/1)	
				2.9				Becomes very dark gray (10 YR - 3/1)	
40		100		2.9 13.8 151.9				Becomes black (10 YR - 2/1), fine to medium grained silty SAND (SM)	Sample SB102-42-120622 @0930
				7.4					
45		70		6.9 7.9 65.3 61.7			SM		
		60							

Completion Depth: 73.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling, Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-102

Starting Date: 12/5/22
Completion Date: 12/6/22
Casing Elevation: Not Installed
Ground Elevation: 435.76 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791892.106 Lat: 38.84141692
E: (Y): 2322104.543 Long: -90.07706304 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		60		447.3				SAME: Loose, wet, black (10 YR - 2/1), fine to medium grained silty SAND (SM)	Strong hydrocarbon odor Sample SB102-52-120622 @0955 Sample SB102-52-120622-DUP
				178.3				Becomes dark gray (10 YR - 4/1)	
55		100		>5000					Strong hydrocarbon odor Sample SB102-55-120622 @1020 Collected sudan (Positive)
				>5000					
				185.4					
				137.7					
60		80		56.6					
				12.4					
				16.1			SM		
				73.8					
65		60		16.1				Becomes fine to very coarse grained	
				23.1				Becomes fine to coarse grained	
				87.2					
70		60		29.2				Becomes fine to very coarse grained	
				1.7					Sample SB102-72-120622 @1055
								Bottom of boring at 73' bgs	Boring backfilled with high solids grout via tremie to surface

Completion Depth: 73.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling, Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-103

Starting Date: 5/16/23
Completion Date: 5/24/23
Casing Elevation: Not Installed
Ground Elevation: 435.99 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791841.050 Lat: 38.84127659
E: (Y): 2322160.041 Long: -90.07686836 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				4.2			ML	Soft, moist, reddish brown (2.5 YR - 4/4) sandy SILT (ML)	
		100		4.1			SM	Loose, moist, reddish brown (2.5 YR - 4/4), very fine to fine grained silty SAND (SM)	
				6.7					
				60.3					
				95.6			ML	Medium stiff, moist, dark brown (7.5 YR - 3/2) SILT (ML)	
15				36.7			SM	Loose, moist, reddish brown (2.5 YR - 4/4), very fine to fine grained silty SAND (SM)	
				55.0					
				24.7				Becomes dark yellowish brown (10 YR - 3/6)	
				7.1					
20		90		3.1					
				2.1					
				1.8				Becomes yellowish brown (10 YR - 5/4)	
				3.6			SP	Loose, moist, pale brown (10 YR - 6/3), very fine to fine grained SAND (SP) with trace silt	
				7.7				Becomes yellowish brown (10 YR - 5/4) with silt	

Completion Depth: 89.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-103

Starting Date: 5/16/23
Completion Date: 5/24/23
Casing Elevation: Not Installed
Ground Elevation: 435.99 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791841.050 Lat: 38.84127659
E: (Y): 2322160.041 Long: -90.07686836 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		4.4 4.5 5.7				SAME: Loose, moist, yellowish brown (10 YR - 5/4), very fine to fine grained SAND (SP) with silt	
30		50		11.9 5.3 10.5				▽ Becomes wet with trace silt	
35				34.4 398.0			SP	Becomes dark yellowish brown (10 YR - 4/4), fine grained SAND (SP) with silt Becomes dark yellowish brown (10 YR - 4/6) and fine to medium grained SAND (SP) with trace silt	
40		70		13.8 82.4 88.0 175.0 208.0				Becomes dark gray (10 YR - 4/1)	Sample SB103-38-051723 @0850 Hydrocarbon sheen observed Sample SB103-43-051723 @0855 for West Hollow
45		100		22.2 2.6 3.0 7.8					

Completion Depth: 89.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-103

Starting Date: 5/16/23
Completion Date: 5/24/23
Casing Elevation: Not Installed
Ground Elevation: 435.99 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791841.050 Lat: 38.84127659
E: (Y): 2322160.041 Long: -90.07686836 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				26.0				SAME: Loose, wet, dark gray (10 YR - 4/1), fine to medium grained SAND (SP) with trace silt	
				15.0					
				36.3			SP		
				27.9					
		100		163.0				Becomes very dark grayish brown (2.5 Y - 3/2) and very fine to fine grained	
55				894.2					
				680.1			ML	Soft, wet, very dark gray (2.5 Y - 3/1) sandy SILT (ML)	
				4333			SM	Loose, wet, very dark gray (2.5 Y - 3/1) very fine grained silty SAND (SM)	
				5848			SP	Becomes very fine grained SAND (SP) with silt	
							SM	Becomes very fine grained silty SAND (SM)	Sample SB103-58-051723 @0930
				99.0				Becomes gray (7.5 YR - 5/1)	
60				308.0			SW	Loose, wet, fine to coarse grained SAND (SW) with trace silt	
				118.0			ML	Becomes soft, wet, sandy SILT (ML)	
				33.0				Loose, wet, gray (7.5 YR - 5/1), fine to medium grained SAND (SP) with trace silt	
		100		24.9					
				5.6			SP	Trace cobbles and black streaking for 6"	
65				5.8					
				2.2					
				11.2			CL	Stiff, wet, gray (7.5 YR - 5/1), medium to high plasticity CLAY (CL)	
							SW	Loose, wet, gray (7.5 YR - 5/1), fine to coarse grained SAND (SW) with trace silt"	Sample SB103-68-051723 @0955
								Bottom of boring at 68.5' bgs on 5/17/2023	Continued drilling SB-103 on 05/24/2023 to sample past 68' bgs in order to delineate based on lab results 16" of recovery from 68.5' to 78.5' bgs
70									
		13							

Completion Depth: 89.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-103

Starting Date: 5/16/23
Completion Date: 5/24/23
Casing Elevation: Not Installed
Ground Elevation: 435.99 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791841.050 Lat: 38.84127659
E: (Y): 2322160.041 Long: -90.07686836 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		13		0.0 0.0			SW	Loose, wet, gray (7.5 YR - 5/1), fine to coarse grained SAND (SW) with trace silt and trace gravels	Sample SB103-77-052423 @1410
80		0							No recovery from 78.5' to 89.5' bgs Heaving sands encountered
85									
90								Bottom of boring at 89.5' bgs	Boring backfilled with sand
95									

Completion Depth: 89.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-104

Starting Date: 6/20/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 435.91 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791861.788 Lat: 38.84133365
E: (Y): 2322113.443 Long: -90.07703189 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0			ML	Soft, dry, dark brown (7.5 YR - 3/2), very fine to medium grained sandy SILT (ML)	
				0.0			CL	Soft, dry, brown (7.5 YR - 4/4), low plasticity, very fine grained CLAY (CL) with sand	
		100		0.0			SM	Loose, dry, yellowish brown (10 YR - 5/4), very fine to fine grained silty SAND (SM)	
15				0.0			SP	Becomes SAND (SP) with silt	
				0.0				Dry, loose, brown (10 YR - 5/3), very fine to fine grained SAND (SP) with trace silt	
				0.0					
				0.0				Becomes fine to medium grained and grayish brown (10 YR - 5/2)	
20		90		0.0					
				0.0					
				0.0					
				0.0					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-104

Starting Date: 6/20/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 435.91 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791861.788 Lat: 38.84133365
E: (Y): 2322113.443 Long: -90.07703189 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.0				SAME: Dry, loose, grayish brown (10 YR - 5/2), fine to medium grained SAND (SP)	
				0.0					
								Becomes olive (5 Y - 5/3)	
30				0.0					
				0.0				Becomes dark grayish brown (10 YR - 4/2) and moist	
				0.0					
		90		0.0				Loose, moist, very fine to fine grained SAND (SP) with silt	
				0.0					
35				0.0				Loose, wet, yellowish brown (10 YR - 5/4), fine to medium grained SAND (SP) with trace silt	
				0.0					
				0.0			SP		
				91.0				Becomes very dark gray (7.5 YR - 3/1)	
40				169.0					
				1580.0					Sample SB104-42-062023 @1430
				890.0					
		100		715.0					
				555.0					
45				263.0					
				202.4				Becomes dark gray (7.5 YR - 4/1)	
				363.0					
		100		280.0					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-104

Starting Date: 6/20/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 435.91 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791861.788 Lat: 38.84133365
E: (Y): 2322113.443 Long: -90.07703189 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				302.0			SP	SAME: Loose, wet, dark gray (7.5 YR - 4/1), fine to medium grained SAND (SP) with trace silt	
				134.0					
				208.0					
				589.0			ML	Soft, wet, black (7.5 YR - 2.5/1), very fine to fine grained sandy SILT (ML)	
		100		864.0					
55				3100.0			SM	Loose, wet, very dark gray (7.5 YR - 3/1), very fine to fine grained silty SAND (SM)	
				4201.0					
				2489.0			SP	Loose, wet, very dark gray (10 YR - 3/1) fine to medium grained SAND (SP) with silt	Sample SB104-57-062023 @1435 Sample SB104-57-062023-DUP
				300.0					
60				50.0					
				6.4				Becomes dark gray (10 YR - 4/1) sand with trace silt	
				18.3					
		100		42.8					
				4.4					
65				3.4					Sample SB104-65-062023 @1440
				0.6					
				0.2			SC	Loose, wet, dark gray (10 YR - 4/1), fine to medium grained clayey SAND (SC)	
				0.4			SP	Loose, wet, gray (10 YR - 5/1), fine to medium grained SAND (SP) with trace silt	
70				6.3					
		100		3.8					
				0.0			SW	Becomes fine to coarse grained SAND (SW)	
				0.2					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-104

Starting Date: 6/20/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 435.91 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791861.788 Lat: 38.84133365
E: (Y): 2322113.443 Long: -90.07703189 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		100		0.0 0.0			SW	SAME: Loose, wet, gray (10 YR - 5/1), fine to coarse grained SAND (SW) with trace silt Becomes black (10 YR - 2.5/1) with trace gravels Becomes dark gray (10 YR - 4/1)	Sample SB104-78-062023 @1445
80								Bottom of boring at 78.5' bgs	Boring backfilled with sand
85									
90									
95									

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-105

Starting Date: 6/19/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 436.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791876.732 Lat: 38.84137455
E: (Y): 2322162.124 Long: -90.07686093 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0			SP	Loose, moist, dark yellowish brown (10 YR - 4/4), very fine to fine grained SAND (SP) with silt	
				0.0			CL	Soft, moist, brown (10 YR - 5/3), low plasticity CLAY (CL) lens for 6"	
		100		0.0				Loose, moist, yellowish brown (10 YR - 5/4), very fine to fine grained SAND (SP) with silt	
15				0.0					
				0.0					
				0.0				Becomes pale brown (10 YR - 6/3) sand with trace silt	
				0.0					
							SP	Becomes sand with silt	
20				0.0					
				0.0					
		90		0.0				Loose, moist, brown (7.5 YR - 5/3), fine to medium grained SAND (SP) with trace silt	
				0.0					
				0.0					
				0.0					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-105

Starting Date: 6/19/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 436.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791876.732 Lat: 38.84137455
E: (Y): 2322162.124 Long: -90.07686093 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.0				SAME: Loose, moist, brown (7.5 YR - 5/3), fine to medium grained SAND (SP) with trace silt	
				0.0				Loose, moist, yellowish brown (10 YR - 5/4), fine to medium grained SAND (SP) with silt	
30				0.0					
				0.0					
				0.0			SP	Loose, wet, brown (10 YR - 4/3), fine to medium grained SAND (SP) with trace silt	
		80		0.0					
35				0.0					
				0.0					
				0.0					
				236.0				Loose, wet, dark gray (7.5 YR - 4/1), very fine to medium grained SAND (SW) with trace silt	
40				1695.0				Becomes gray (7.5 YR - 5/1)	Sample SB105-40-062023 @0910
				1198.0					
				1498.0			SW		
				1184.0					
		100		1382.0				Becomes very dark gray (10 YR - 3/1)	
				151.0				Becomes dark gray (7.5 YR - 4/1)	
45				47.5					
				39.0			SP	Becomes gray (7.5 YR - 5.1), very fine to fine grained SAND (SP)	
				13.6					
		100		0.0			ML	Soft, wet, gray (10 YR - 5/1), non-plastic sandy SILT (ML) with very fine to fine grained sand	

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-105

Starting Date: 6/19/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 436.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791876.732 Lat: 38.84137455
E: (Y): 2322162.124 Long: -90.07686093 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				16.0			CL	Very dark gray (10 YR - 3/1), medium plasticity CLAY (CL) with trace sand	
				28.2				Soft, wet, very dark gray (10 YR - 3/1) sandy SILT (ML) with very fine to fine grained sand	
				110.6					
				1789.0			ML		
		100		>15000					
55				>15000					Sample SB105-55-062023 @0925
				>15000				Loose, wet, very dark gray (10 YR - 3/1), very fine to fine grained silty SAND (SM)	
				>15000			SM		
				557.0					
60				268.0				Loose, wet, dark gray (10 YR - 4/1), fine to medium grained SAND (SP) with silt	
				1661.0					
				508.0			SP		
		90		96.0					
				12.6				Becomes sand with trace silt	
65				2.3				Loose, wet, gray (10 YR - 5/1), fine to coarse grained SAND (SW) with trace silt and trace gravels	
				3.7					
				1.0					Sample SB105-67-062023 @0930 Sample SB105-67-062023-MS Sample SB105-67-062023-MSD
70				0.0			SW		
		25							
				0.0					Sample SB105-73-062023 @0950

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-105

Starting Date: 6/19/23
Completion Date: 6/20/23
Casing Elevation: Not Installed
Ground Elevation: 436.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791876.732
E: (Y): 2322162.124
Lat: 38.84137455
Long: -90.07686093 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		25		0.0			SW	SAME: Loose, wet, gray (10 YR - 5/1), fine to coarse grained SAND (SW) with trace silt and trace gravels	
80								Bottom of boring at 78.5' bgs	Boring backfilled with sand
85									
90									
95									

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-106

Starting Date: 6/17/23
Completion Date: 6/19/23
Casing Elevation: Not Installed
Ground Elevation: 436.00 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791845.895 Lat: 38.84128989
E: (Y): 2322159.894 Long: -90.07686886 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10' bgs to clear utilities SB-106 is 5' North of SB-103 Sampled same intervals for comparison/confirmation
10		100		0.0			SP	Loose, moist, dark yellowish brown (10 YR - 4/4), very fine to fine grained SAND (SP) with trace silt	
15				0.0					
20		90		0.0				Becomes fine to medium grained and brown (7.5 YR - 4/2)	

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-106

Starting Date: 6/17/23
Completion Date: 6/19/23
Casing Elevation: Not Installed
Ground Elevation: 436.00 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791845.895 Lat: 38.84128989
E: (Y): 2322159.894 Long: -90.07686886 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
							SP	SAME: Loose, moist, brown (7.5 YR - 4/2), fine to medium grained SAND (SP) with trace silt	
		90		0.0			SM	Loose, moist, brown (10 YR - 5/3), fine to medium grained silty SAND (SM), with 1/8" thick black bands from 26'-26.5'	
				0.0				Loose, moist, yellowish brown (10 YR - 5/6), very fine to fine grained SAND (SP) with trace silt	
				0.0					
30				0.0				Becomes brown (7.5 YR - 4/3)	
				0.0					
				0.0				Becomes wet ▽	
		85		0.0					
				0.0					
35				0.0					
				0.0					
				0.0					
				0.0			SP	Becomes fine to medium grained and brown (7.5 YR - 5/3)	Sample SB106-39-061923 @1150
40				116.0				Becomes dark gray (2.5 Y - 4/1)	
				301.0					
				431.0					
				786.0					
				798.0					
				810.0				Becomes very dark gray (2.5 Y - 3/1)	
45				596.0					Sample SB106-45-061923 @1200 Sample SB106-45-061923-DUP
				330.0				Becomes dark gray (2.5 Y - 4/1)	
				11.0					
				0.0					
		100		0.0					
				0.0					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-106

Starting Date: 6/17/23
Completion Date: 6/19/23
Casing Elevation: Not Installed
Ground Elevation: 436.00 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791845.895 Lat: 38.84128989
E: (Y): 2322159.894 Long: -90.07686886 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0			SP	Loose, wet, dark gray (2.5 Y - 4/1), very fine to fine grained SAND (SP) with silt	
				0.0					
				0.0					
				0.0			SM	Becomes silty SAND (SM)	
		100		21.0			ML	Soft, wet, dark gray (2.5 Y - 4/1), very fine grained sandy SILT (ML)	
55				162.0			CL	Soft, wet, very dark gray (2.5 Y - 3/1), medium plasticity CLAY (CL) with sand for 6"	
				2396.0			SP	Soft, wet, dark gray (2.5 Y - 4/1), very fine grained SAND (SP) with silt	
				1600.0					
				2100.0					
							CL	Soft, wet, black (2.5 Y - 2.5/1), non-plastic CLAY (CL) with sand and trace gravels	Sample SB106-58-061923 @1220
				38.1					
60				160.1			SP	Loose, wet, dark gray (2.5 Y - 4/1), very fine to fine grained SAND (SP) with silt	
				167.1					
								Becomes fine to medium grained sand with trace silt	
				16.3					
		90							
				2.1					
65									
				0.8					
				2.2					
				14.5				Becomes black (2.5 Y - 2.5/1)	
							SW	Loose, wet, gray (2.5 Y - 5/1), fine to coarse grained SAND (SW) with trace gravel	Sample SB106-68-061923 @1330
				0.0					
70				0.0					
				0.0					
		100		0.0					
				0.0					
				0.0					
				0.0					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-106

Starting Date: 6/17/23
Completion Date: 6/19/23
Casing Elevation: Not Installed
Ground Elevation: 436.00 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791845.895 Lat: 38.84128989
E: (Y): 2322159.894 Long: -90.07686886 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		100		0.0 0.0 0.0			SW	SAME: Loose, wet, gray (2.5 Y - 5/1), fine to coarse grained SAND (SW) with trace silt and trace gravel	Sample SB106-77-061923 @1355
80								Bottom of boring at 78.5' bgs	Boring backfilled with sand
85									
90									
95									

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-107

Starting Date: 6/17/23
Completion Date: 6/17/23
Casing Elevation: Not Installed
Ground Elevation: 436.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791845.901 Lat: 38.84128980
E: (Y): 2322198.225 Long: -90.07673428 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0			SP	Loose, moist, brown (7.5 YR - 4/3), fine to medium grained SAND (SP) with trace silt	
				0.0					
				0.0					
				0.0					
		100		47.5					
15				3.5				Becomes very dark brown (7.5 YR - 2.5/2)	Sample SB107-15-061723 @1000
				0.0				Becomes dark yellowish brown (10 YR - 3/4)	Slight hydrocarbon odor
				0.0				Loose, moist, dark yellowish brown (10 YR - 4/6) fine grained sand with silt (SP)	
				0.0				Loose, moist, brown (10 YR - 5/3), fine to medium grained SAND (SP) with trace silt	
				0.0					
20				0.0					
				0.0					
		100		46.2			ML	Medium stiff, moist, brown (7.5 YR - 4/3), sandy SILT (ML) with very fine to fine grained sand	
				71.6					
				29.3			SP	Loose, moist, brown (7.5 YR - 4/3), fine to medium grained SAND (SP) with silt	

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-107

Starting Date: 6/17/23
Completion Date: 6/17/23
Casing Elevation: Not Installed
Ground Elevation: 436.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791845.901 Lat: 38.84128980
E: (Y): 2322198.225 Long: -90.07673428 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		100		4.3				Loose, wet, brown (10 YR - 4/4), fine to medium grained SAND (SP) with trace silt	
				0.0					
				0.0					
				0.0					
30				0.0					
				0.0					
				0.0					
		85		0.0					
				0.0					
35				0.0				▽ Loose, wet, dark brown (7.5 YR - 3/2), very fine to fine grained SAND (SP) with trace silt	
				2.1					
				143.1			SP	Becomes fine to medium grained and dark grayish brown (10 YR - 4/2)	
								Becomes very dark gray (10 YR - 3/1)	
				815.2					Sample SB107-39-061723 @1110
40				644.9					
				663.3				Becomes dark brown (7.5 YR - 3/2)	
				592.4					
				748.0					
		100		884.2					
				364.1					
45				119.1					
				83.9				Becomes dark gray (2.5 Y - 4/1)	
				28.1					
		100		0.0					
				0.0					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-107

Starting Date: 6/17/23
Completion Date: 6/17/23
Casing Elevation: Not Installed
Ground Elevation: 436.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791845.901 Lat: 38.84128980
E: (Y): 2322198.225 Long: -90.07673428 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0			SW	Loose, wet, dark brown (7.5 YR - 3/2), fine to coarse grained SAND (SW) with trace silt and trace cobbles	
				0.0					
				0.0					
				0.0			ML	Soft, wet, very dark gray (7.5 YR - 3/1) sandy SILT (ML) with fine grained sand	
		100		13.1					
55				377.1				Becomes medium stiff	
				378.1					
				337.0					
				891.0			SP	Loose, wet, dark gray (7.5 YR - 5/1), fine to medium grained SAND (SP) with silt	Sample SB107-58-061723 @1130
60									
		30		1001.0					
65				337.0			SM	Loose, wet, very dark gray (7.5 YR - 3/1), very fine to fine grained silty SAND (SM) with trace gravel	
							SW	Loose, wet, dark gray (2.5 Y - 4/1), fine to coarse grained SAND (SW) with trace silt	Sample SB107-67-061723 @1220
							ML	Hard, wet, low plasticity SILT (ML) with trace sand	
				0.0				Loose, wet, brown (7.5 YR - 4/3), fine to coarse grained SAND (SW) with trace silt	
70				0.0					
				0.0					
				0.0			SW		
				0.0					
				0.1					
				0.2					

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SB_E

LOG OF BORING
SB-107

Starting Date: 6/17/23
Completion Date: 6/17/23
Casing Elevation: Not Installed
Ground Elevation: 436.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791845.901 Lat: 38.84128980
E: (Y): 2322198.225 Long: -90.07673428 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0				SAME: Loose, wet, brown (7.5 YR - 4/3), fine to coarse grained SAND (SW) with trace silt	
				0.0			SW		
				0.0				Trace gravels appear	Sample SB107-78-061723 @1350
80								Bottom of boring at 78.5' bgs	Boring backfilled with sand
85									
90									
95									

Completion Depth: 78.5 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: Alex Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AA0

Starting Date: 4/27/23
Completion Date: 4/27/23
Casing Elevation: 447.77
Ground Elevation: 443.57 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792001.316 Lat: 38.84171670
E: (Y): 2322138.069 Long: -90.07694495 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AB0 for lithology Refer to construction log of SI-AA0 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-44Ø

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-44Ø

X: 2322138.069, Y: 792001.316

Surveyed by: Kowelman Engineering Inc. IL Registration #: ____

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McClain

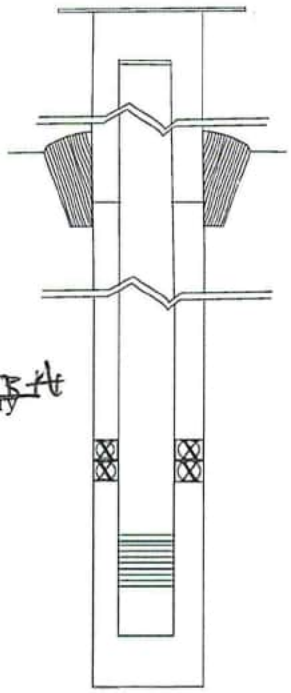
Consulting Firm: AECOM Geologist: J. Camino

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/26/23 Date Finished: 4/27/23

Report Form Completed By: M. Miller Date: 4/27/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.00'	Top of Riser Pipe
	____	0.00'	Ground Surface
	____	0.00'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	50.50'	Top of Seal
	____	53.00'	Top of Sand Pack
	____	54.00'	Top of Screen
	____	57.00'	Bottom of Screen
	____	57.00'	Bottom of Well
	____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ B.H (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ B.H
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	~2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AA1

Starting Date: 5/9/23
Completion Date: 5/10/23
Casing Elevation: 448.15
Ground Elevation: 443.73 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792019.453 Lat: 38.84176658
E: (Y): 2322109.228 Long: -90.07704615 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log SB-101
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
SI-AA1

Starting Date: 5/9/23
Completion Date: 5/10/23
Casing Elevation: 448.15
Ground Elevation: 443.73 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792019.453 Lat: 38.84176658
E: (Y): 2322109.228 Long: -90.07704615 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log SB-101
30		83.3		0.5 5.9 11.6 6.1 8.1			SW	Loose, wet, light olive brown (2.5 Y - 5/3), fine to coarse grained SAND (SW) with trace silt	
35				13.3 14.2 5.0			SM	Loose, wet, brown (10 YR - 4/3), fine to medium grained silty SAND (SM) Trace gravels for 6"	
40		66.7		4.1 0.7 0.3 1.1 1.3 1.4			SP	Loose, wet, dark yellowish brown (10 YR - 4/4), very fine to fine grained SAND (SP) with trace silt Becomes dark grayish brown (2.5 Y - 4/2) and fine to medium grained	
45				0.4 1.2 1.1 0.4				Becomes grayish brown (2.5 Y - 5/2)	Sample SIAA1-45-051123 @1240
				734.0					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM
USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AA1

Starting Date: 5/9/23
Completion Date: 5/10/23
Casing Elevation: 448.15
Ground Elevation: 443.73 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792019.453 Lat: 38.84176658
E: (Y): 2322109.228 Long: -90.07704615 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				3814			SP	SAME: Loose, wet, grayish brown (2.5 Y - 5/2), fine to medium grained SAND (SP) with trace silt	Sample SIAA1-50-051123 @1245
				6091				Becomes sand with silt	
				>15000					
				>15000				Becomes sand with trace silt	
				4270					
				>15000					
				>15000					
				6662					Sample SIAA1-56-051123 @1255 Sample SIAA1-56-051123-DUP
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Well #: ~~SI-AA1~~ ~~X-AA2~~ SI-AA1 ~~X-AA2~~

Site Name: FORMER ROXANA PUBLIC WORKS YARD

Borehole #: ~~SI-AA1~~ SI-AA1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___

X: 2322109.228, Y: 792019.453

Surveyed by: Kowelman Engineering Inc.

IL Registration #: ____

Drilling Contractor: HD SONIC

Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM

Geologist: Brett Howell

Drilling Method: SONIC

Drilling Fluid (Type): POTABLE WATER

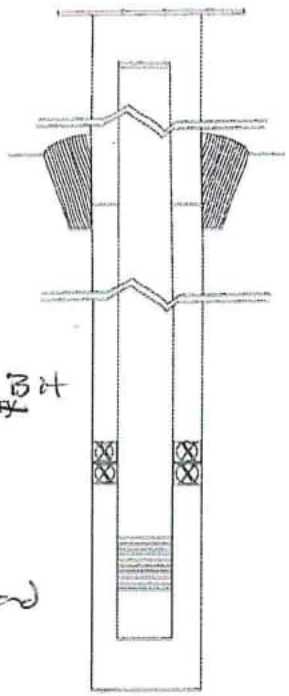
Logged By: Brett Howell

Date Started: 5/11/23 Date Finished: 5/11/23

Report Form Completed By: Brett Howell

Date: 5/11/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 Min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) — Global Quartz Sand #8 (3rd)

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.05'	Top of Riser Pipe
	____	0.00'	Ground Surface
	____	0.00'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	50.10'	Top of Seal
	____	52.20'	Top of Sand Pack
	____	54.00'	Top of Screen
	____	57.00'	Bottom of Screen
	____	57.00'	Bottom of Well
	____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

(3rd)

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AA2

Starting Date: 5/18/23
Completion Date: 5/18/23
Casing Elevation: 447.08
Ground Elevation: 442.48 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792036.390 Lat: 38.84181321
E: (Y): 2322060.914 Long: -90.07721572 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AA3 for lithology Refer to construction log of SI-AA2 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AA2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AA2

X: 2322109.228, Y: 792019.453

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Mellon

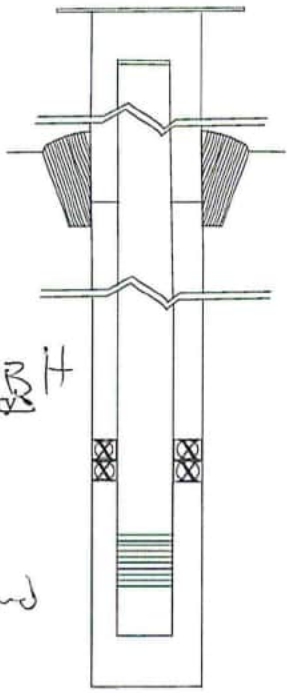
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/18/23 Date Finished: 5/19/23

Report Form Completed By: Brett Howell Date: 5/18/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AA3

Starting Date: 5/9/23
Completion Date: 5/10/23
Casing Elevation: 446.96
Ground Elevation: 442.45 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792036.343 Lat: 38.84181309
E: (Y): 2322060.926 Long: -90.07721568 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-14
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AA3

Starting Date: 5/9/23
Completion Date: 5/10/23
Casing Elevation: 446.96
Ground Elevation: 442.45 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792036.343 Lat: 38.84181309
E: (Y): 2322060.926 Long: -90.07721568 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-14
30				0.0					
				0.0					
				0.0			SP	Loose, wet, dark brown (10 YR - 3/3), very fine to fine grained SAND (SP) with silt	
		50		1.9					
35				1.9					
				1.4			SM	Loose, wet, brown (10 YR - 4/3) silty SAND (SM)	
				10.9					
							SP	Becomes fine to medium grained SAND (SP) with trace silt	
				0.0					
40				0.0				Becomes dark grayish brown (2.5 Y - 4/2) ▼	
				0.0				Becomes brown (10 YR - 4/3)	
				0.0					
				0.0					
				38.4					
45				29.3			SW	Loose, wet, black (2.5 Y - 2.5/1), fine to coarse grained SAND (SW) with trace silt and trace gravels	Sample SIAA3-45-051023 @1450
				41.5				Loose, wet, very dark gray (2.5 Y - 3/1), fine to medium grained SAND (SP) with trace silt	
				95.3			SP	Becomes gray (2.5 Y - 5/1)	
				33.3					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AA3

Starting Date: 5/9/23
Completion Date: 5/10/23
Casing Elevation: 446.96
Ground Elevation: 442.45 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792036.343 Lat: 38.84181309
E: (Y): 2322060.926 Long: -90.07721568 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				51.2 30.8 145.8 281.0 1209 1471 2021			SP	SAME: Loose, wet, gray (2.5 Y - 5/1), fine to medium grained SAND (SP) with trace silt	Sample SIAA3-56-051023 @1500
								Bottom of boring at 57' bgs	
60									
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AA3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AA3

X: 2322060.926, Y: 792036.343

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncon

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

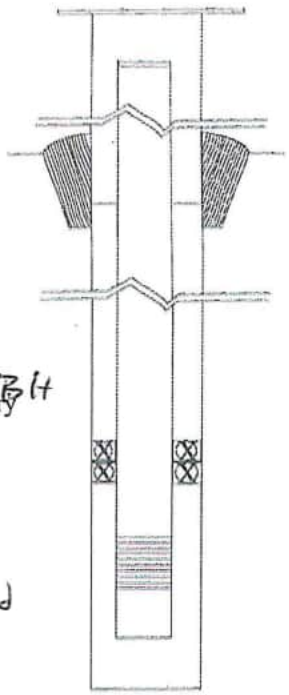
Logged By: Brett Howell Date Started: 5/10/23 Date Finished: 5/10/23

Report Form Completed By: Brett Howell Date: 5/10/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.00'	Top of Riser Pipe
	____	0.00'	Ground Surface
	____	0.00'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	50.80'	Top of Seal
	____	53.00'	Top of Sand Pack
	____	54.00'	Top of Screen
	____	57.00'	Bottom of Screen
	____	57.00'	Bottom of Well
	____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular~~, Pellet, ~~Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~ 15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	5'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB0

Starting Date: 6/13/23
Completion Date: 6/13/23
Casing Elevation: Not Installed
Ground Elevation: 443.13 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791989.579 Lat: 38.84168447
E: (Y): 2322139.670 Long: -90.07693937 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log SB-101
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 36 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB0

Starting Date: 6/13/23
Completion Date: 6/13/23
Casing Elevation: Not Installed
Ground Elevation: 443.13 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791989.579 Lat: 38.84168447
E: (Y): 2322139.670 Long: -90.07693937 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log SB-101
30				0.0			SM	Loose, wet, dark yellowish brown (10 YR - 4/4) very fine to fine grained silty SAND (SM)	
				0.0				Loose, wet, dark yellowish brown (10 YR - 4/4), very fine to fine grained SAND (SP) with trace silt	
		53		0.0					
35				0.0					
				0.0				Becomes dark yellowish brown (10 YR - 4/6)	
								Becomes dark yellowish brown (10 YR - 3/6)	
40				667.0			SP	Becomes very dark gray (10 YR - 3/1)	
				93.0					
		50		84.0				Becomes dark gray (10 YR - 4/1)	
								Becomes very dark gray (10 YR - 3/1)	
45				381.0					
				11000				Becomes black (10 YR - 2/1) with trace cobbles	
		100		>15000					Hydrocarbon sheen observed Sample SIAB0-48-061323 @1505 Sample SIAB0-48-061323-DUP

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 36 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB0

Starting Date: 6/13/23
Completion Date: 6/13/23
Casing Elevation: Not Installed
Ground Elevation: 443.13 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791989.579 Lat: 38.84168447
E: (Y): 2322139.670 Long: -90.07693937 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		3001 2465 3685 1807 1018 4701 6700			SW	Loose, wet, dark gray (2.5 Y - 4/1), fine to medium coarse grained SAND (SW) with trace silt	Sample SIAB0-56-061323 @1525
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 36 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-ABD

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-ABD

X: 2322139.67, Y: 791989.579

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/13/23 Date Finished: 6/13/23

Report Form Completed By: Brett Howell Date: 6/13/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

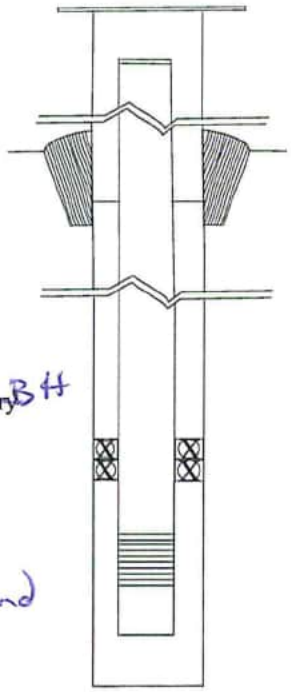
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		49.90'	Top of Seal
		51.90'	Top of Sand Pack
		53.00'	Top of Screen
		57.06'	Bottom of Screen
		57.06'	Bottom of Well
		57.06'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB1

Starting Date: 6/14/23
Completion Date: 6/14/23
Casing Elevation: Not Installed
Ground Elevation: 443.19 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791988.552 Lat: 38.84168172
E: (Y): 2322114.839 Long: -90.07702656 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AB0 for lithology Refer to construction log of SI-AB1 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AB1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI.AB1

X: 2322114.839, Y: 791988.552

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

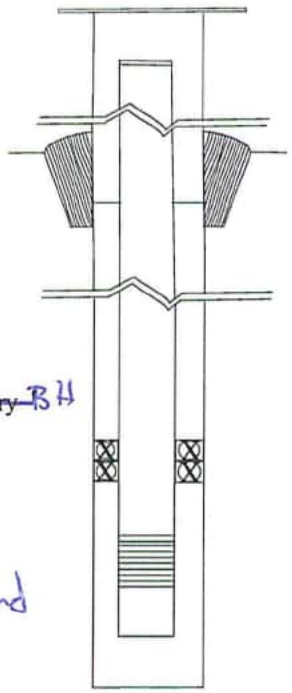
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/14/23 Date Finished: 6/14/23

Report Form Completed By: Brett Howell Date: 6/14/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.80'	Top of Seal
		52.80'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB2

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: 448.05
Ground Elevation: 443.60 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792003.815 Lat: 38.84172370
E: (Y): 2322086.583 Long: -90.07712571 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of T-AB2 for lithology Refer to construction log of SI-AB2 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AB2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AB2

X: 2322086.583, Y: 792003.815

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/15/23 Date Finished: 6/15/23

Report Form Completed By: Brett Howell Date: 6/15/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~ 10 min

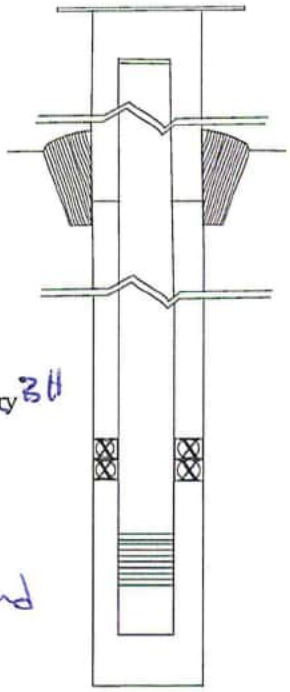
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB3

Starting Date: 5/9/23
Completion Date: 5/9/23
Casing Elevation: Not Installed
Ground Elevation: 442.40 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792017.772 Lat: 38.84176210
E: (Y): 2322060.436 Long: -90.07721746 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AA3 for lithology Refer to construction log of SI-AB3 for well build
5									
10									
15									
20									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-A83

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-A83

X: 2322060.436, Y: 792017.772

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

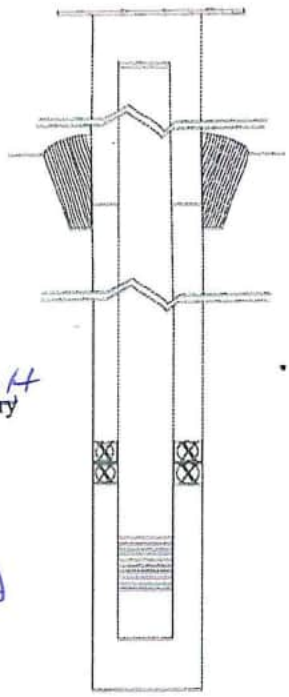
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/9/23 Date Finished: 5/9/23

Report Form Completed By: Brett Howell Date: 5/9/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.90 ~~+2.00~~	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		49.50 BH ~~51.00~~ 52.50	Top of Seal
		BH ~~53.00~~	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.60	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~~20 min~~

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~ 20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AB4

Starting Date: 4/20/23
Completion Date: 4/20/23
Casing Elevation: 446.08
Ground Elevation: 441.45 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792036.008 Lat: 38.84181224
E: (Y): 2322034.297 Long: -90.07730917 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AA3 for lithology Refer to construction log of SI-AB4 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AB4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AB4

X: 2322034.297, Y: 792036.008

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

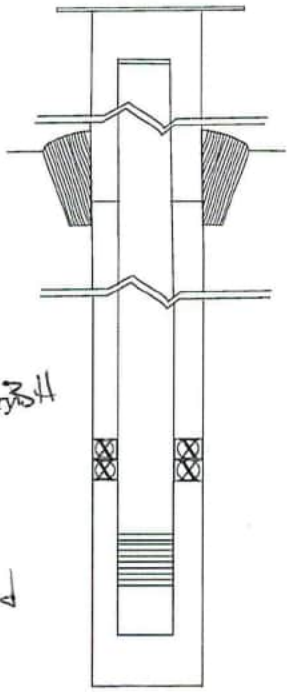
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/20/23 Date Finished: 4/20/23

Report Form Completed By: Brett Howell Date: 4/20/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ____

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ (Choose One) 3/4 Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.00	Top of Riser Pipe
	____	0.00	Ground Surface
	____	0.00'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	50.90	Top of Seal
	____	53.00	Top of Sand Pack
	____	54.16	Top of Screen
	____	57.16	Bottom of Screen
	____	57.10	Bottom of Well
	____	57.10	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ 304
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AC1

Starting Date: 4/26/23
Completion Date: 4/26/23
Casing Elevation: Not Installed
Ground Elevation: 443.56 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791983.269 Lat: 38.84166721
E: (Y): 2322114.640 Long: -90.07702727 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AB0 for lithology Refer to construction log of SI-AC1 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AC1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AC1

X: 2322114.64, Y: 791983.269

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Mellar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/26/23 Date Finished: 4/26/23

Report Form Completed By: Brett Howell Date: 4/26/23

ANNULAR SPACE DETAILS

Installed/Drilled @ 20° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BAM (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~25 min

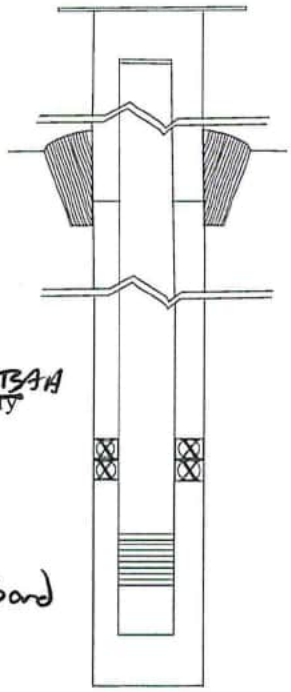
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		49.90	Top of Seal
		52.46	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	5'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AC2

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: 448.30
Ground Elevation: 443.91 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791981.335 Lat: 38.84166198
E: (Y): 2322087.335 Long: -90.07712314 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of T-AB2 for lithology Refer to construction log of SI-AC2 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AC2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AC2

X: 2322087.335, Y: 791981.335

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/15/23 Date Finished: 6/15/23

Report Form Completed By: Brett Howell Date: 6/15/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

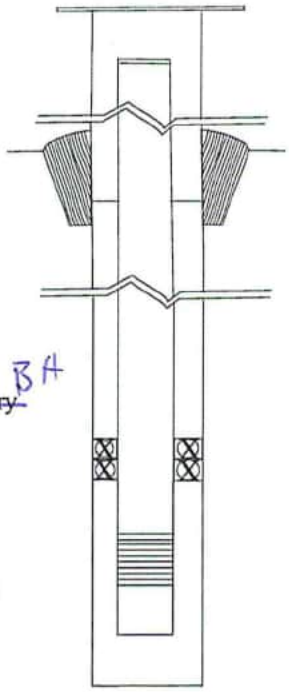
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00	Top of Seal
		53.00	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	6
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AC3

Starting Date: Not Installed
Completion Date: Not Installed
Casing Elevation: 447.49
Ground Elevation: 443.26 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791999.084 Lat: 38.84171078
E: (Y): 2322061.343 Long: -90.07721434 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of T-AB2 for lithology Refer to construction log of SI-AC3 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

- Geoprobe
- Air Knife
- Hand Auger
- Sonic
- Splitspoon Sampler
- Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AC3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AC3

X: 2322061.343, Y: 791999.084

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

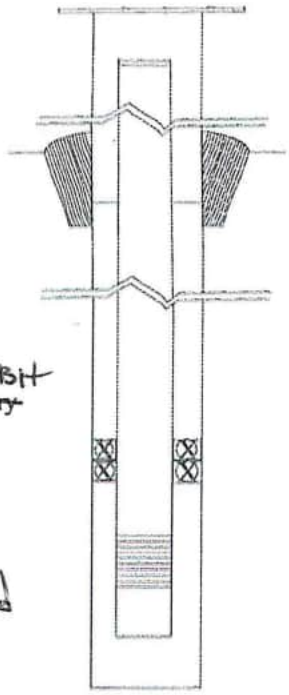
Logged By: Mike Miller Date Started: 4/28/23 Date Finished: 4/28/23

Report Form Completed By: Brett Howell Date: 4/28/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~ 15 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) 3 AND Bit Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~ 20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ Bit
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AC4

Starting Date: 4/25/23
Completion Date: 4/25/23
Casing Elevation: 444.97
Ground Elevation: 440.62 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792003.086 Lat: 38.84172184
E: (Y): 2322034.999 Long: -90.07730682 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-14
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: 33.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AC4

Starting Date: 4/25/23
Completion Date: 4/25/23
Casing Elevation: 444.97
Ground Elevation: 440.62 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792003.086 Lat: 38.84172184
E: (Y): 2322034.999 Long: -90.07730682 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-14
30				37.9				Loose, wet, dark yellowish brown (10 YR - 4/4), very fine to fine grained silty SAND (SM)	
				1.7					
				3.8			SM		
				11.1					
		66.7		10.2				▼	
				8.5					
35				2.1				Loose, wet, yellowish brown (10 YR - 5/6), fine to medium grained SAND (SW) with trace silt	
				3.7					
				3.9					
				375.0					
40				486.0				Becomes fine to coarse grained	Sample SIAC4-41-042523 @1110
				116.0			SW		
		66.7		186.0					
				1200					
45								Loose, wet, very dark gray (10 YR - 3/1), fine to coarse grained SAND (SW) with trace silt	
				15000					
				15000				Becomes fine to medium grained	
									Strong hydrocarbon odor Sample SIAC4-48-042523 @1115
				205.0					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AC4

Starting Date: 4/25/23
Completion Date: 4/25/23
Casing Elevation: 444.97
Ground Elevation: 440.62 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792003.086 Lat: 38.84172184
E: (Y): 2322034.999 Long: -90.07730682 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				381.0 495.0 685.0 1040 1202 2426 3250			SW	SAME: Loose, wet, very dark gray (10 YR - 3/1), fine to medium grained SAND (SW) with trace silt Becomes fine to coarse grained	Strong hydrocarbon odor Sample SIAC4-56-042523 @1130
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AC4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AC4

X: 2322034.999, Y: 792003.086

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Durron

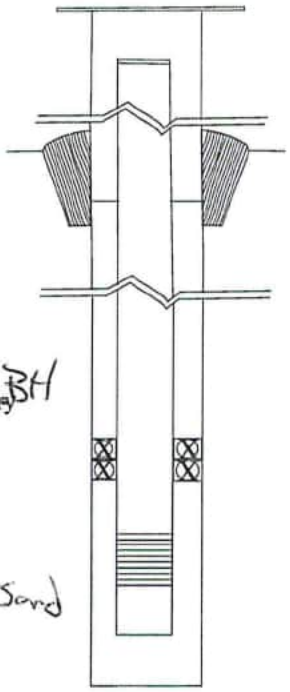
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: ~~4/21/23~~ 4/25/23 Date Finished: ~~4/21/23~~ 4/25/23 BH

Report Form Completed By: Brett Howell Date: ~~BH 4/21/23~~ 4/25/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH

Global Quartz Sand #8 (Choose One)

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.90'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.00'	Top of Seal
		52.00'	Top of Sand Pack
		54.10'	Top of Screen
		57.10'	Bottom of Screen
		57.10'	Bottom of Well
		57.10'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AC5

Starting Date: 2/21/23
Completion Date: 2/21/23
Casing Elevation: 442.97
Ground Elevation: 438.64 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792019.159 Lat: 38.84176604
E: (Y): 2322008.244 Long: -90.07740070 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AD6 for lithology
									Refer to construction log of SI-AC5 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: SI-AC5

State o ' " o ' "

Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AC5

X: 2322008.244, Y: 792019.159

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

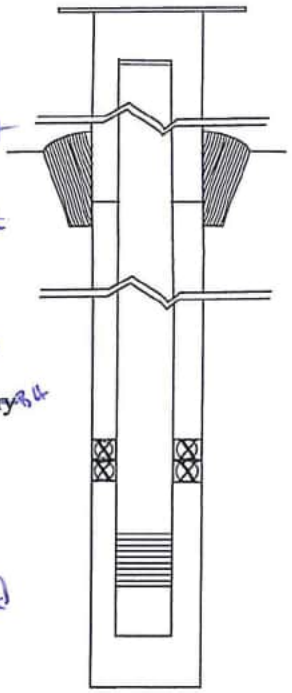
Drilling Method: Sonic Drilling Fluid (Type): Potable water

Logged By: Brett Howell Date Started: 2/20/23 Date Finished: 2/21/23

Report Form Completed By: Brett Howell Date: 2/21/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		0.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.5'	Top of Seal
		52.7'	Top of Sand Pack
		54.0'	Top of Screen
		57.0'	Bottom of Screen
		57.0'	Bottom of Well
		57.0'	Bottom of Borehole



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: Tremie ~20 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One)

Global Quartz Sand #2

Installation Method: Tremie

Setting Time: ~30 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #0 7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: —

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	31'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD1

Starting Date: 2/18/23
Completion Date: 2/18/23
Casing Elevation: 440.57
Ground Elevation: 435.92 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791896.319 Lat: 38.84142848
E: (Y): 2322107.820 Long: -90.07705152 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AF2 for lithology Refer to construction log of SI-AD1 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: IL9115002 County: Madison

Site Name: Roxana Public Works Yard Well #: SI-AM1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AM1

X: 2322107.82, Y: 791896.319 * Angle Boring

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable water

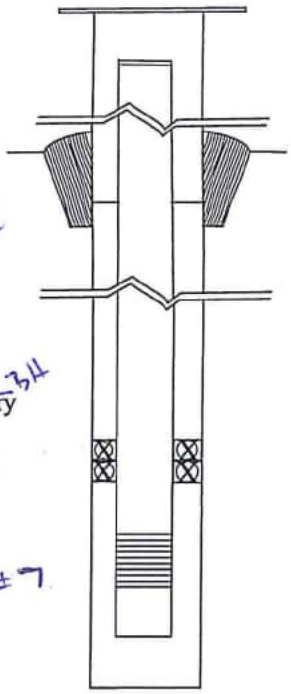
Logged By: Brett Howell Date Started: 2/18/23 Date Finished: 2/18/23

Report Form Completed By: Brett Howell Date: 2/18/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.0'	Top of Riser Pipe
	____	0.0'	Ground Surface
	____	0.0'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	53'10"	Top of Seal
	____	56'0"	Top of Sand Pack
	____	57'2"	Top of Screen
	____	60'2"	Bottom of Screen
	____	60'2"	Bottom of Well
	____	60'2"	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~50 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #6

Installation Method: Tremie

Setting Time: ~30 min

Type of Sand Pack: Global Quartz Sand #7

Grain Size: #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: — N/A (if applicable)

Installation Method: — N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	~~3'~~ 3'
Total Length of Casing (feet)	~~57'~~ 56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AD2

Starting Date: 5/24/23
Completion Date: 5/24/23
Casing Elevation: 448.27
Ground Elevation: 443.67 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791944.143 Lat: 38.84155988
E: (Y): 2322078.134 Long: -90.07715558 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AD2 for lithology Refer to construction log of SI-AD2 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AD2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AD2

X: 2322078.134, Y: 791944.143

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/23/23 Date Finished: 5/24/23

Report Form Completed By: Brett Howell Date: 5/24/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

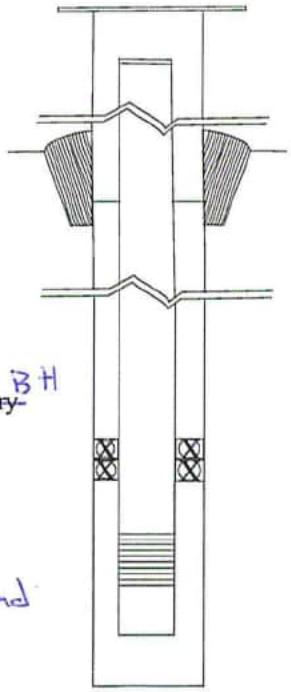
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		59.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD3

Starting Date: 4/26/23
Completion Date: 4/26/23
Casing Elevation: 446.13
Ground Elevation: 441.79 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791958.442 Lat: 38.84159919
E: (Y): 2322061.273 Long: -90.07721473 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log SVE-2
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 36 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD3

Starting Date: 4/26/23
Completion Date: 4/26/23
Casing Elevation: 446.13
Ground Elevation: 441.79 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791958.442 Lat: 38.84159919
E: (Y): 2322061.273 Long: -90.07721473 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log SVE-2
									Top 1' plug
30				10.1					Recovery @1450
				15.5				Loose, wet, brown (10 YR - 4/3), very fine to fine grained silty SAND (SM)	
		50		21.7			SM		
				14.0				Becomes brown (7.5 YR - 4/4) SAND (SP) with trace silt	
35				13.7				▼	
				9.5				Becomes light olive brown (2.5 Y - 5/4)	
									Recovery @1510
40				13.8					
				43.0					
				65.0			SP	Loose, wet, dark yellowish brown (10 YR - 4/4), fine to medium grained SAND (SP) with silt	
		58.3		259.0					
				205.0					
45				742.0					Hydrocarbon odor
				12000				Becomes very dark grayish brown (10 YR - 3/2)	Sample SI-AD3-47 @1520
		58.3		>5000					Recovery @1525

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 36 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD3

Starting Date: 4/26/23
Completion Date: 4/26/23
Casing Elevation: 446.13
Ground Elevation: 441.79 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791958.442 Lat: 38.84159919
E: (Y): 2322061.273 Long: -90.07721473 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		58.3		5345 >5000 >5000 >5000 >5000 2700			SP	Loose, wet, grayish brown (2.5 Y - 5/2), fine to medium grained SAND (SP) with silt Becomes dark gray (2.5 Y - 4/1)	Hydrocarbon odor Sample SI-AD3-56 @1535 Sample SI-AD3-56-DUP
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 36 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AB3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AB3

X: 2322061.273, Y: 791958.442

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

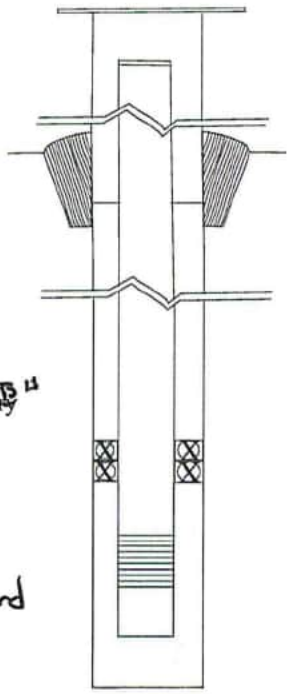
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: B. Howell Date Started: 4/26/23 Date Finished: 4/27/23

Report Form Completed By: Brett Howell Date: 4/27/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		~~+2.00~~	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Bentonite (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	~~+2~~ 2.0'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD4

Starting Date: 4/26/23
Completion Date: 4/26/23
Casing Elevation: 444.77
Ground Elevation: 440.35 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791983.500 Lat: 38.84166805
E: (Y): 2322039.965 Long: -90.07728945 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AD3 for lithology Refer to construction log of SI-AD4 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AD4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AD4

X: 2322039.965, Y: 791983.5

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

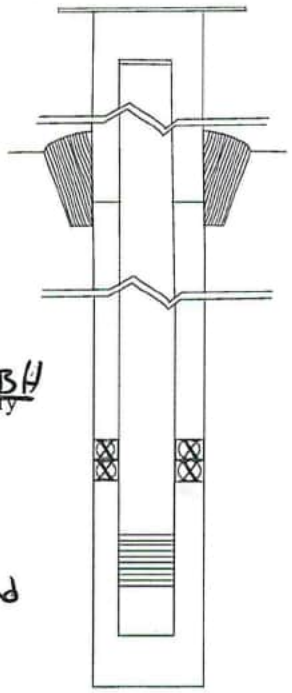
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/25/23 Date Finished: 4/26/23

Report Form Completed By: Brett Howell Date: 4/26/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.90'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.60'	Top of Seal
		52.90'	Top of Sand Pack
		54.10'	Top of Screen
		57.10'	Bottom of Screen
		57.10'	Bottom of Well
		57.10'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~ 15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD5

Starting Date: 2/23/23
Completion Date: 2/23/23
Casing Elevation: 440.68
Ground Elevation: 436.28 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791989.624 Lat: 38.84168494
E: (Y): 2322009.592 Long: -90.07739607 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AD6 for lithology Refer to construction log of SI-AD5 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 11911500002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: SI-AD5

Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AD5

X: 2322009.592, Y: 791989.624

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/23/23 Date Finished: 2/23/23

Report Form Completed By: Brett Howell Date: 2/23/23

ANNULAR SPACE DETAILS

Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~20 min

Type of Bentonite Seal - ~~Granular, Pellet, Slurry~~ SAND BH (Choose One)

Global Quartz Sand #7

Installation Method: Tremie

Setting Time: ~70 min

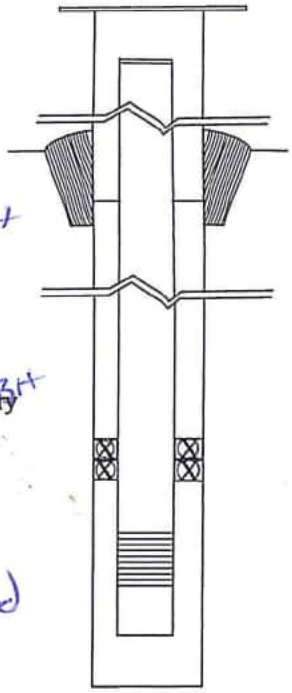
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		0.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		49.7'	Top of Seal
		52.1'	Top of Sand Pack
		54.0'	Top of Screen
		57.0'	Bottom of Screen
		57.0'	Bottom of Well
		57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD6

Starting Date: 3/23/23
Completion Date: 3/23/23
Casing Elevation: 439.20
Ground Elevation: 434.85 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792002.276 Lat: 38.84171976
E: (Y): 2321982.317 Long: -90.07749179 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-01
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD6

Starting Date: 3/23/23
Completion Date: 3/23/23
Casing Elevation: 439.20
Ground Elevation: 434.85 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792002.276 Lat: 38.84171976
E: (Y): 2321982.317 Long: -90.07749179 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-01
30		83.3		7.5 17.5 16.3 9.0 13.8			SM	Loose, wet, brown (10 YR - 5/3), very fine to fine grained silty SAND (SM) ▼	
35		83.3		31.4 18.2 14.3 1630			SP	Loose, wet, yellowish brown (10 YR - 5/4), fine to medium SAND (SP) with trace silt Becomes dark grayish brown (10 YR - 4/2)	Sample SIAD6-39-032323 @1225 Sample SIAD6-39-032323-MS Sample SIAD6-39-032323-MSD
40		83.3		893.0 1157 1366 1340			SW	Becomes gray (10 YR - 4/1) fine to coarse grained SAND (SW)	
45		83.3		386.0 672.0 1557 5167 >15000			SP	Becomes light gray (10 YR - 7/1) and fine to medium grained SAND (SP)	Sample SIAD6-49-032323 @1230

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AD6

Starting Date: 3/23/23
Completion Date: 3/23/23
Casing Elevation: 439.20
Ground Elevation: 434.85 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792002.276 Lat: 38.84171976
E: (Y): 2321982.317 Long: -90.07749179 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				8491 10630 >15000 >15000 >15000 >15000 >15000 >15000 >15000			SP	Loose, wet, light gray (10 YR - 7/1), fine to medium SAND (SP) with trace silt	Sample SIAD6-55-032323 @1235
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AD6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AD6

X: 2321982.317, Y: 792002.276

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

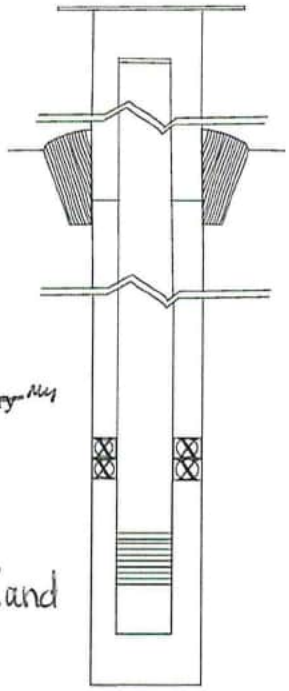
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/23/23 Date Finished: 3/23/23

Report Form Completed By: Mary Massa Date: 3/23/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~ 35 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.30'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AE1

Starting Date: 4/18/23
Completion Date: 4/18/23
Casing Elevation: 439.21
Ground Elevation: 435.74 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791895.783 Lat: 38.84142703
E: (Y): 2322098.718 Long: -90.07708347 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AF2 for lithology Refer to construction log of SI-AE1 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: T. Rose
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AE1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: ~~SI-AE1~~

X: 2322098.718, Y: 791895.783

Surveyed by: ~~Kowelman~~ Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/15/23 Date Finished: 4/18/23

Report Form Completed By: Brett Howell Date: 4/18/23

ANNULAR SPACE DETAILS

Installed/Drilled @ 10 degree angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

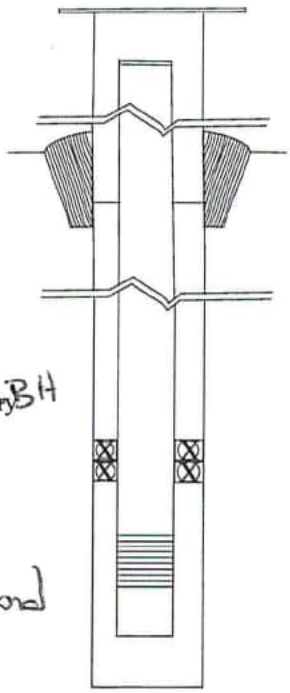
Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.90'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PW\ SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AE2

Starting Date: 4/18/23
Completion Date: 4/18/23
Casing Elevation: 440.06
Ground Elevation: 435.96 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791896.436 Lat: 38.84142886
E: (Y): 2322087.340 Long: -90.07712342 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AF2 for lithology Refer to construction log of SI-AE2 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: T. Rose
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AE2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AE2

X: 2322087.34, Y: 791896.436

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: ~~Brett~~ Howell

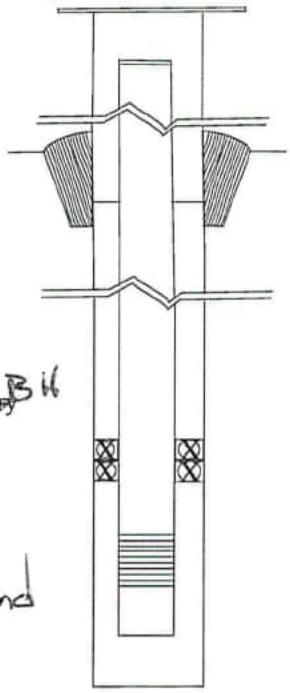
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/18/23 Date Finished: 4/18/23

Report Form Completed By: Brett Howell Date: 4/18/23

ANNULAR SPACE DETAILS

Installed/Drilled @ 17 degree angle



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.70'	Top of Seal
		52.80'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ Bit
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	51
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AE3

Starting Date: 5/19/23
Completion Date: 5/19/23
Casing Elevation: 444.94
Ground Elevation: 439.99 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791927.807 Lat: 38.84151507
E: (Y): 2322061.659 Long: -90.07721347 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AD2 for lithology
10									Refer to construction log of SI-AE3 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AE3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AE3

X: 2322061.659, Y: 791927.807

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Meltar

Consulting Firm: AECOM Geologist: Brett Howell

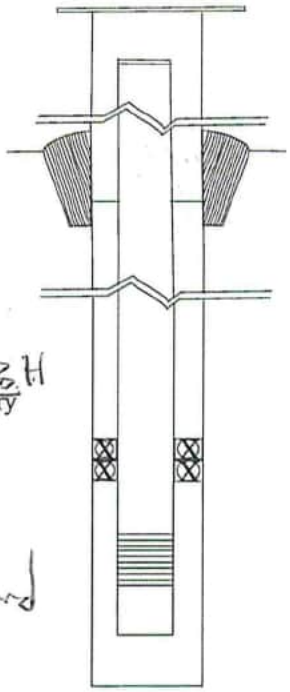
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/19/23 Date Finished: 5/19/23

Report Form Completed By: Brett Howell Date: 5/19/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.80	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) B.H

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ B.H
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AE4

Starting Date: 4/18/23
Completion Date: 4/18/23
Casing Elevation: 439.72
Ground Elevation: 435.42 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791939.575 Lat: 38.84154747
E: (Y): 2322029.463 Long: -90.07732647 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of X-AE4 for lithology Refer to construction log of SI-AE4 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: SI-AE4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AE4

X: 2322029.463, Y: 791939.575

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable water

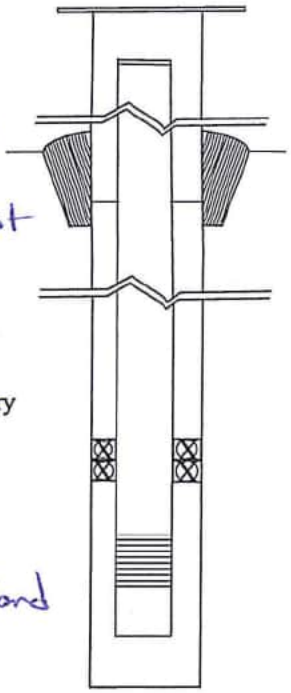
Logged By: Brett Howell Date Started: 3/1/23 Date Finished: 3/1/23

Report Form Completed By: Brett Howell Date: 3/1/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.0' ~~0.0~~ BH	Top of Riser Pipe
	____	0.0'	Ground Surface
	____	0.0'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	51.0'	Top of Seal
	____	53.0'	Top of Sand Pack
	____	54.0'	Top of Screen
	____	57.0'	Bottom of Screen
	____	57.0'	Bottom of Well
	____	57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie Pipe

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Global Quartz Sand #8 (Choose One)

Installation Method: Tremie

Setting Time: ~30 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: NA

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BW

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AE5

Starting Date: 3/1/23
Completion Date: 3/1/23
Casing Elevation: 439.56
Ground Elevation: 435.12 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791957.737 Lat: 38.84159739
E: (Y): 2322009.364 Long: -90.07739698 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of PD-01 for lithology
10									Refer to construction log of SI-AE5 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: SI-AES

State Plane Coordinate: X Y (or) Latitude: ° ' " Longitude: ° ' "
X: 2322009.364, Y: 791957.737

Borehole #: SI-AES

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic - Alex Duncan

Consulting Firm: AECom Geologist: Bret Howell

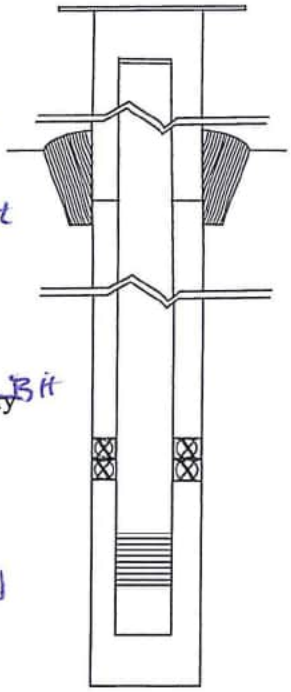
Drilling Method: Sonic Drilling Fluid (Type): Potable water

Logged By: Bret Howell Date Started: 3/1/23 Date Finished: 3/1/23

Report Form Completed By: Bret Howell Date: 3/1/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.0	Top of Riser Pipe
	0.0'	Ground Surface
	0.0'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	51.0'	Top of Seal
	53.0'	Top of Sand Pack
	54.0'	Top of Screen
	57.0'	Bottom of Screen
	57.0'	Bottom of Well
	57.0'	Bottom of Borehole



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~30min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH
Global Quartz Sand #8 (Choose One)

Installation Method: Tremie

Setting Time: ~30min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ SH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	5'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_Bo

LOG OF BORING
SI-AE6

Starting Date: 6/16/23
Completion Date: 6/16/23
Casing Elevation: 439.16
Ground Elevation: 434.66 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791972.766 Lat: 38.84163873
E: (Y): 2321982.269 Long: -90.07749205 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of PD-01 for lithology
									Refer to construction log of SI-AE6 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AE6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AE6

X: 2321982.269, Y: 791972.766

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/16/23 Date Finished: 6/16/23

Report Form Completed By: Brett Howell Date: 6/16/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND BH (Choose One)
Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

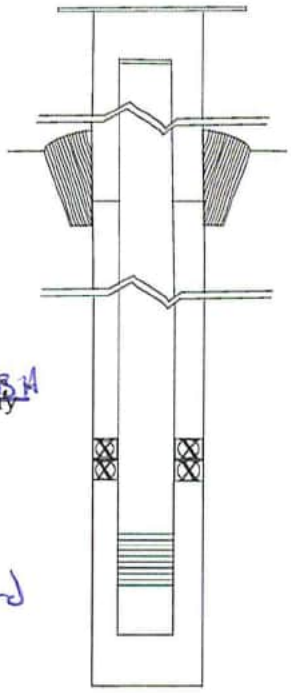
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	NA	Top of Protective Casing
	+2.00	Top of Riser Pipe
	6.00	Ground Surface
	0.00	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	49.10	Top of Seal
	51.10	Top of Sand Pack
	54.00	Top of Screen
	57.00	Bottom of Screen
	57.00	Bottom of Well
	57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF2

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 440.95
Ground Elevation: 436.52 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791881.892 Lat: 38.84138892
E: (Y): 2322087.494 Long: -90.07712293 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log SVE-26
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.7 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

- Geoprobe
- Air Knife
- Hand Auger
- Sonic
- Splitspoon Sampler
- Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF2

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 440.95
Ground Elevation: 436.52 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791881.892 Lat: 38.84138892
E: (Y): 2322087.494 Long: -90.07712293 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log SVE-26
30									
		50						Loose, wet, brown (7.5 YR - 4/3), fine to coarse grained SAND (SW) with trace silt ▼	No recovery above 34' bgs (sluff)
35				0.0					
				1.4				Becomes fine to medium grained	
				8.0					
				1.1			SW	Becomes very fine to fine grained	
				1.0					
								Becomes pale brown (10 YR - 6/3)	
40				161.0					
				36.0				Loose, wet, very dark grayish brown (10 YR - 3/2), fine to medium grained SAND (SP) with trace silt	
				118.0					
				724.0					
		90		980.0				Becomes olive gray (5 Y - 4/2)	Sample SIAF2-44-051623 @1110 Sample SIAF2-44-051623-MS Sample SIAF2-44-051623-MS
45				973.0			SP		
				4388					
				15000					
				15000					
								Becomes dark gray (10 YR - 4/1)	
		0							Sample SIAF2-49-051623 @1130

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.7 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF2

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 440.95
Ground Elevation: 436.52 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791881.892 Lat: 38.84138892
E: (Y): 2322087.494 Long: -90.07712293 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		0							No recovery 49'-57' bgs
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.7 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AF2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AF2

X: 2322087.494, Y: 791881.892

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

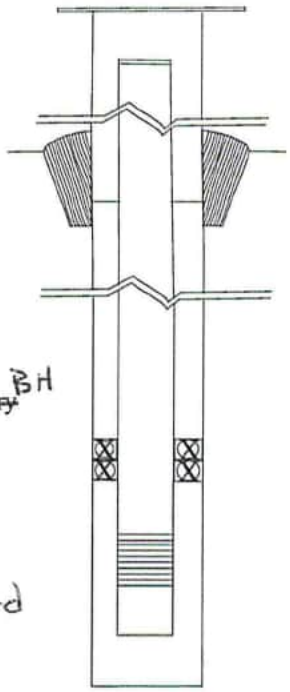
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/16/23 Date Finished: 5/16/23

Report Form Completed By: Brett Howell Date: 5/16/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~35 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	5
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF3

Starting Date: 3/14/23
Completion Date: 3/14/23
Casing Elevation: 440.18
Ground Elevation: 435.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791898.341 Lat: 38.84143416
E: (Y): 2322061.425 Long: -90.07721440 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log VMP-30 Air knifed to 10' bgs
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.7 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF3

Starting Date: 3/14/23
Completion Date: 3/14/23
Casing Elevation: 440.18
Ground Elevation: 435.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791898.341 Lat: 38.84143416
E: (Y): 2322061.425 Long: -90.07721440 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log VMP-30
30				7.3				Loose, wet, brown (7.5 YR - 5/4), fine to medium grained silty SAND (SM)	
				4.3			SM		
				4.5				▼	
35				5.3				Loose, wet, brown (7.5 YR - 5/4), fine to medium grained SAND (SP) with trace silt	
				6.7					
				11.0				Black streaking appears Becomes dark grayish brown (10 YR - 4/2)	
40				5461					Strong hydrocarbon odor
				5092					Sample SIAF3-41-031423 @1555
				4254			SP		
				6588					
45				8751					Strong hydrocarbon odor
				7490					
				10048					Sample SIAF3-47-031423 @1600
				9116				Becomes gray (10 YR - 5/1)	
				4708					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.7 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF3

Starting Date: 3/14/23
Completion Date: 3/14/23
Casing Elevation: 440.18
Ground Elevation: 435.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791898.341 Lat: 38.84143416
E: (Y): 2322061.425 Long: -90.07721440 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				428.0 1539 1537 3027 1610			SP	SAME: Loose, wet, gray (10 YR - 5/1), fine to medium grained SAND (SP) with trace silt	Strong hydrocarbon odor
				1002 863.0 1912 1310					Sample SIAF3-55-031423 @1605 Strong hydrocarbon odor
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.7 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AF3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AF3

X: 2322061.425, Y: 791898.341

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/14/23 Date Finished: 3/15/23

Report Form Completed By: Brett Howell Date: 3/15/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)
Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

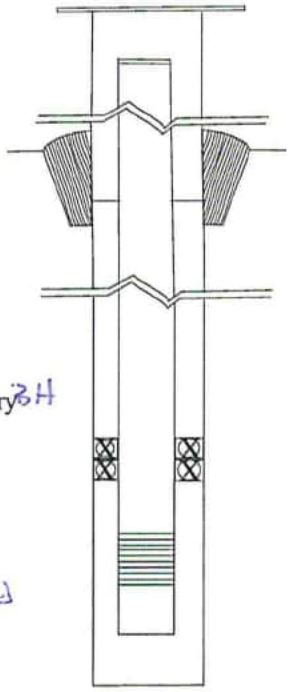
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.0'	Top of Riser Pipe
	0.0'	Ground Surface
	0.0'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	51.0'	Top of Seal
	53.0'	Top of Sand Pack
	54.0'	Top of Screen
	57.0'	Bottom of Screen
	57.0'	Bottom of Well
	57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ B 14
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	3'
Screen Length (1st slot to last slot) (feet)	51'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AF4

Starting Date: 5/22/23
Completion Date: 5/22/23
Casing Elevation: 439.84
Ground Elevation: 435.55 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791912.732 Lat: 38.84147374
E: (Y): 2322035.200 Long: -90.07730642 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of X-AE4 for lithology Refer to construction log of SI-AF4 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AF4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AF4

X: 2322035.2, Y: 791912.732

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

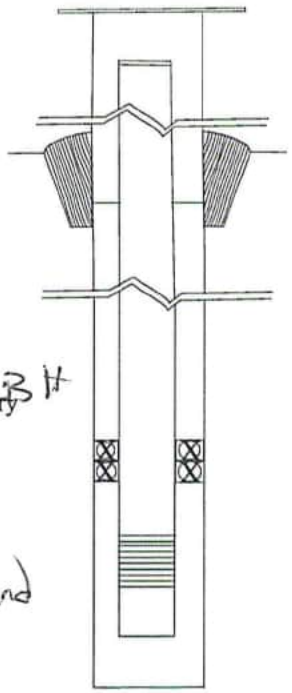
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/20/23 Date Finished: 5/22/23

Report Form Completed By: Brett Howell Date: 5/22/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One) BH

Global Quartz Sand #0

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NM
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AF5

Starting Date: 2/28/23
Completion Date: 2/28/23
Casing Elevation: 439.31
Ground Elevation: 434.92 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791927.893 Lat: 38.84151545
E: (Y): 2322008.921 Long: -90.07739864 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of X-AF6 for lithology
									Refer to construction log of SI-AF5 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AF5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AF5

X: 2322008.921, Y: 791927.893

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

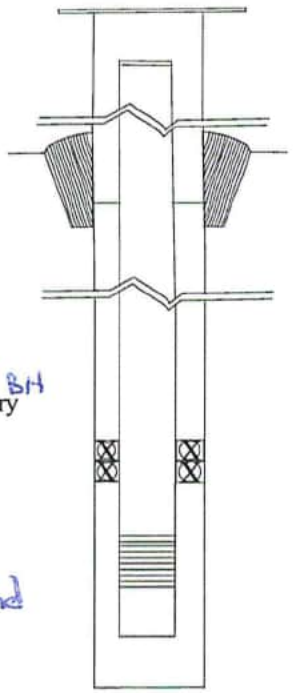
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 2/28/23 Date Finished: 2/28/23

Report Form Completed By: Brett Howell Date: 2/28/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		8.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.0'	Top of Seal
		53.0'	Top of Sand Pack
		54.0'	Top of Screen
		57.0'	Bottom of Screen
		57.0'	Bottom of Well
		57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ Bit
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0.1'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AF6

Starting Date: 4/24/23
Completion Date: 4/24/23
Casing Elevation: 438.98
Ground Elevation: 434.59 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791942.728
E: (Y): 2321981.221
Lat: 38.84155625
Long: -90.07749584 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AF6 for lithology
10									Refer to construction log of SI-AF6 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: ST-AF6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: ST-AF6

X: 2321981.221, Y: 791942.728

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/24/23 Date Finished: 4/24/23

Report Form Completed By: Brett Howell Date: 4/24/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ B.H (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

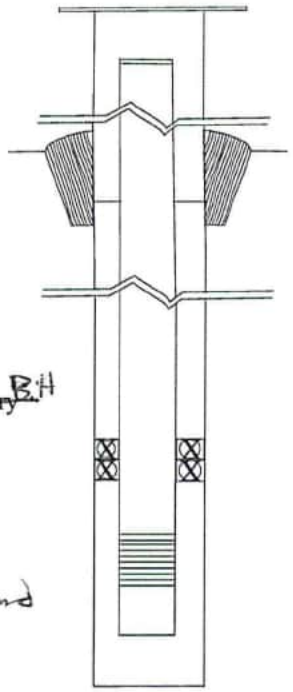
Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00	Top of Seal
		53.00	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

B.H

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AG3

Starting Date: 3/24/23
Completion Date: 3/24/23
Casing Elevation: 440.13
Ground Elevation: 435.84 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791867.676 Lat: 38.84134996
E: (Y): 2322061.297 Long: -90.07721495 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AF2 for lithology Refer to construction log of SI-AG3 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AG3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: SI-AG3

X: 2322061.297, Y: 791867.676

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

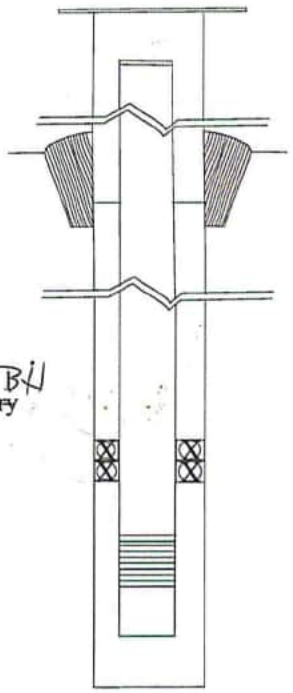
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/24/23 Date Finished: 3/24/23

Report Form Completed By: Brett Howell Date: 3/24/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+1.90'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	50.50'	Top of Seal
	53.00'	Top of Sand Pack
	54.10'	Top of Screen
	57.10'	Bottom of Screen
	57.10'	Bottom of Well
	57.10'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand SAND

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	42.0'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AG4

Starting Date: 3/21/23
Completion Date: 3/21/23
Casing Elevation: 439.99
Ground Elevation: 435.60 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791883.679 Lat: 38.84139397
E: (Y): 2322035.444 Long: -90.07730567 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AF3 for lithology Refer to construction log of SI-AG4 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AG4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AG4

X: 2322035.444, Y: 791883.679

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

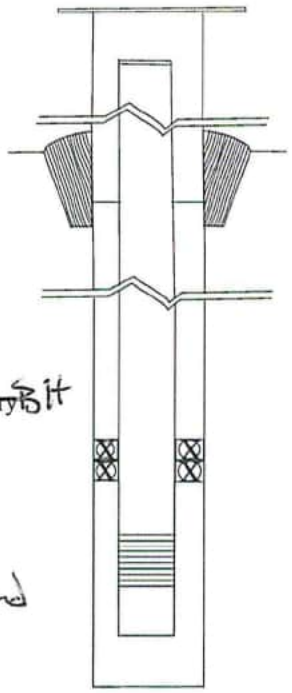
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/20/23 Date Finished: 3/21/23

Report Form Completed By: Brett Howell Date: 3/21/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Slurry (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	4"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AG5

Starting Date: 4/21/23
Completion Date: 4/21/23
Casing Elevation: 438.50
Ground Elevation: 435.06 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791895.094 Lat: 38.84142535
E: (Y): 2322021.992 Long: -90.07735286 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of PD-05 for lithology Refer to construction log of SI-AG5 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: T. Rose
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AG5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AG5

X: 2322021.992, Y: 791895.094

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: ~~Brett~~ Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: ~~Brett~~ Howell Date Started: 4/21/23 Date Finished: 4/21/23

Report Form Completed By: ~~Brett~~ Howell Date: 4/21/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 13° degree angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

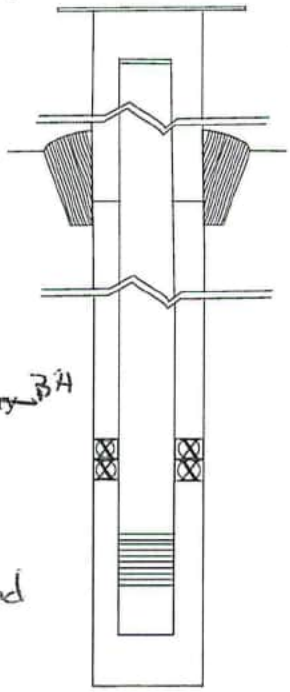
Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	50.60'	Top of Seal
____	52.90'	Top of Sand Pack
____	54.00'	Top of Screen
____	57.00'	Bottom of Screen
____	57.00'	Bottom of Well
____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AG6

Starting Date: 4/20/23
Completion Date: 4/20/23
Casing Elevation: 438.40
Ground Elevation: 434.75 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791927.197 Lat: 38.84151360
E: (Y): 2321983.401 Long: -90.07748824 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AF6 for lithology
10									Refer to construction log of SI-AG6 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: T. Rose
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AG6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AG6

X: 2321983.401, Y: 791927.197

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevan Rose

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/20/23 Date Finished: 4/20/23

Report Form Completed By: Brett Howell Date: 4/20/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 13 degree angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

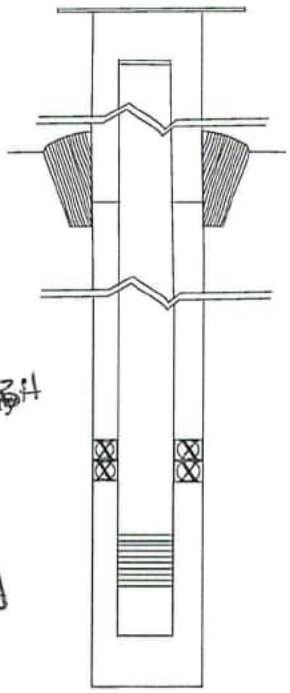
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.06'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	51.00'	Top of Seal
	53.00'	Top of Sand Pack
	54.00'	Top of Screen
	57.00'	Bottom of Screen
	57.00'	Bottom of Well
	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ Bit
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54.1
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AG7

Starting Date: 2/20/23
Completion Date: 2/21/23
Casing Elevation: 439.09
Ground Elevation: 434.51 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791928.527 Lat: 38.84151733
E: (Y): 2321956.975 Long: -90.07758101 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					For top 30' refer to boring log PD-04 Air knifed/Hydrovac'd to 10' bgs Sample SIAG7-022023-EB @1445
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0				Loose, wet, reddish brown (5 YR - 5/3), fine to medium grained SAND (SP) with silt	Wet due to drilling method
				0.0					
		60		0.0			SP		
				0.0					
20				0.0					20'-27' bgs wet due to drilling method
		60		0.0					
				0.0					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: SDC 450-15
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AG7

Starting Date: 2/20/23
Completion Date: 2/21/23
Casing Elevation: 439.09
Ground Elevation: 434.51 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791928.527 Lat: 38.84151733
E: (Y): 2321956.975 Long: -90.07758101 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0				SAME: Loose, wet, reddish brown (5 YR - 5/3), fine to medium grained SAND (SP) with silt	
				0.0					
		60		0.0				Loose, moist, reddish yellow (7.5 YR - 6/6), fine to medium grained SAND (SP) with trace silt	
				0.0					
30				0.0					
				1.5				▼	
				10.1					
35		80		20.1				Becomes dark reddish brown (5 YR - 2.5/1)	Hydrocarbon odor
				32.1					
				64.8			SP		
				85.7				Becomes reddish black (2.5 YR - 2.5/1)	Strong hydrocarbon odor Sample SIAG7-39-022023 @1600
40				61.7					
				31.8					
				20.4					Strong hydrocarbon odor Sample SIAG7-43-022023 @1620
45		90		8.1				Becomes gray (10 YR - 5/1)	
				6.2					
				5.0					
				1.8					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: SDC 450-15
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AG7

Starting Date: 2/20/23
Completion Date: 2/21/23
Casing Elevation: 439.09
Ground Elevation: 434.51 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791928.527 Lat: 38.84151733
E: (Y): 2321956.975 Long: -90.07758101 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		71.4		320.0 480.0 960.0 400.0			SP	SAME: Loose, wet, dark gray (10YR - 4/1), fine to coarse grained SAND (SP) with trace silt	Strong hydrocarbon odor Sample SIAG7-55-022123 @0945
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: SDC 450-15
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32.5 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

- Geoprobe
- Air Knife
- Hand Auger
- Sonic
- Splitspoon Sampler
- Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: SI-AG7

Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AG7

X: 2321956.975, Y: 791928.527

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

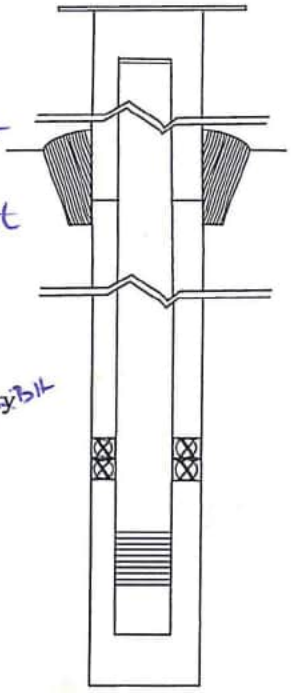
Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/20/23 Date Finished: 2/21/23

Report Form Completed By: Brett Howell Date: 2/21/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		0.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.5'	Top of Seal
		52.5'	Top of Sand Pack
		54.0'	Top of Screen
		57.0'	Bottom of Screen
		57.0'	Bottom of Well
		57.0'	Bottom of Borehole



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Bag (Choose One)

Global Quartz Sand #8

Installation Method: Tremie

Setting Time: ~16 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#20~~ #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-AH4

Starting Date: 3/24/23
Completion Date: 3/24/23
Casing Elevation: 439.70
Ground Elevation: 435.22 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.530 Lat: 38.84131118
E: (Y): 2322037.465 Long: -90.07729867 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of PD-09 for lithology Refer to construction log of SI-AH4 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AH4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AH4

X: 2322037.465, Y: 791853.53

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

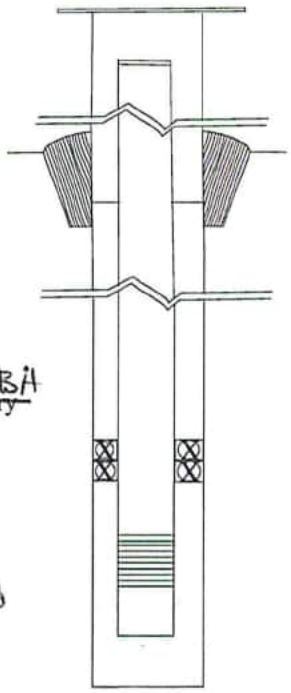
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/24/23 Date Finished: 3/24/23

Report Form Completed By: Brett Howell Date: 3/24/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

SA.VB

Type of ~~Bentonite~~ Seal - ~~Granular, Pellet, Slurry~~ (Choose One) BA

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.80' ~~2.00~~	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.50'	Top of Seal
		53.00'	Top of Sand Pack
		54.20'	Top of Screen
		57.20'	Bottom of Screen
		57.20'	Bottom of Well
		57.20'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

BH

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	~~2~~ 1.80'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AH5

Starting Date: 5/20/23
Completion Date: 5/20/23
Casing Elevation: 438.88
Ground Elevation: 435.13 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791869.225 Lat: 38.84135437
E: (Y): 2322004.760 Long: -90.07741345 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AG5 for lithology Refer to construction log of SI-AH5 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AH5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AH5

X: 2322004.76, Y: 791869.225

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

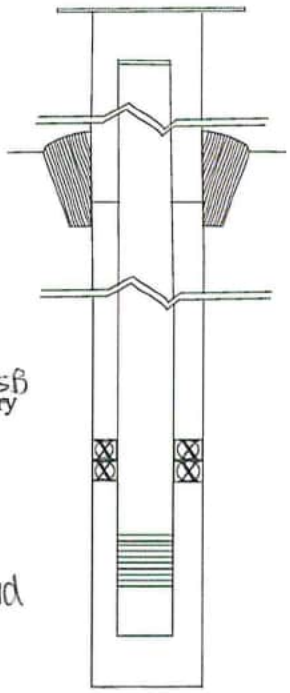
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/20/23 Date Finished: 5/20/23

Report Form Completed By: Brett Howell Date: 5/20/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ SB (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.10'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AH6

Starting Date: 3/18/23
Completion Date: 3/18/23
Casing Elevation: 438.97
Ground Elevation: 434.57 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791883.182 Lat: 38.84139276
E: (Y): 2321978.795 Long: -90.07750456 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AH6 for lithology Refer to construction log of SI-AH6 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AH6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AH6

X: 2321978.795, Y: 791883.182

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

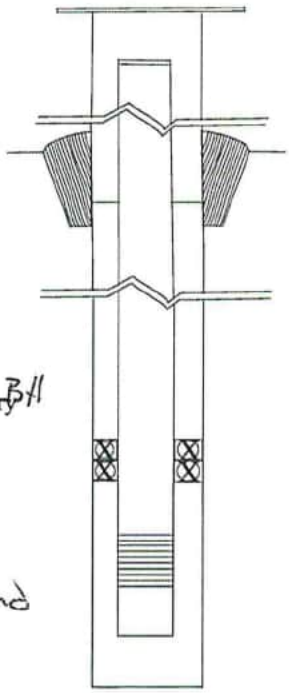
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/17/23 Date Finished: 3/18/23

Report Form Completed By: Brett Howell Date: 3/18/23

ANNULAR SPACE DETAILS



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.0'	Top of Riser Pipe
	0.0'	Ground Surface
	0.0'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	50.3'	Top of Seal
	52.3'	Top of Sand Pack
	54.0'	Top of Screen
	57.0'	Bottom of Screen
	57.0'	Bottom of Well
	57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1" slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AH7

Starting Date: Not Installed
Completion Date: Not Installed
Casing Elevation: 438.88
Ground Elevation: 434.58 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791883.346 Lat: 38.84139328
E: (Y): 2321950.029 Long: -90.07760555 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AI7 for lithology Refer to construction log of SI-AH7 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: T. Rose
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AH7

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AH7

X: 2321950.029, Y: 791883.346

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/21/23 Date Finished: 4/21/23

Report Form Completed By: Brett Howell Date: 4/21/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 16° Angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

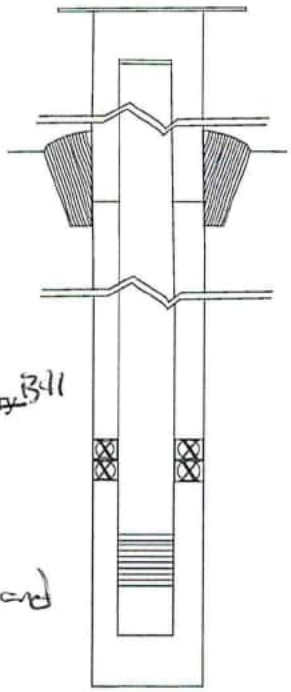
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304~~, ~~SS316~~, PTFE, PVC, or ~~Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AH8

Starting Date: 2/20/23
Completion Date: 2/20/23
Casing Elevation: 438.74
Ground Elevation: 434.09 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791926.085 Lat: 38.84151070
E: (Y): 2321926.233 Long: -90.07768896 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AG7 for lithology
									Refer to construction log of SI-AH8 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: SI-AH8

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AH8

X: 2321926.233, Y: 791926.085

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/20/23 Date Finished: 2/20/23

Report Form Completed By: Brett Howell Date: 2/20/23

ANNULAR SPACE DETAILS

Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) 3/4"

Global Quartz Sand #87

Installation Method: Tremie

Setting Time: ~20 min

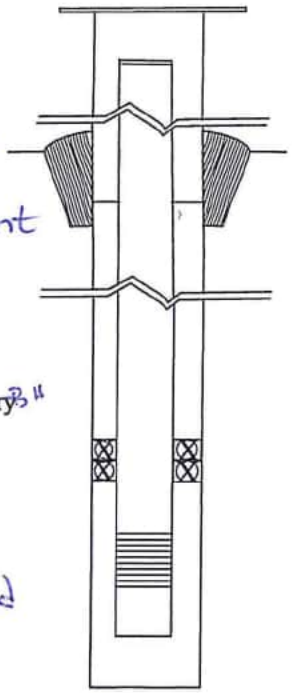
Type of Sand Pack: Global Quartz Sand

Grain Size: #87 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		0.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.0'	Top of Seal
		53.0'	Top of Sand Pack
		54.0'	Top of Screen
		57.0'	Bottom of Screen
		57.0'	Bottom of Well
		57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ 3/4"
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AI5

Starting Date: 3/22/23
Completion Date: 3/22/23
Casing Elevation: 439.69
Ground Elevation: 435.44 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791837.919 Lat: 38.84126839
E: (Y): 2322010.000 Long: -90.07739515 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AJ6 for lithology Refer to construction log of SI-AI5 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AIS

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AIS

X: 2322010.00, Y: 791837.919

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

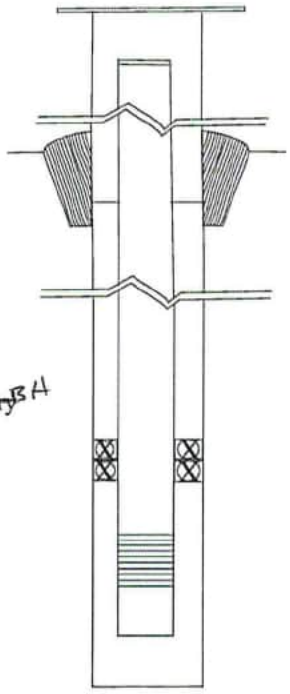
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/22/23 Date Finished: 3/22/23

Report Form Completed By: Brett Howell Date: 3/22/23

ANNULAR SPACE DETAILS



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	51.00'	Top of Seal
____	53.00'	Top of Sand Pack
____	54.00'	Top of Screen
____	57.00'	Bottom of Screen
____	57.00'	Bottom of Well
____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	21
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	31
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AI6

Starting Date: 2/18/23
Completion Date: 2/18/23
Casing Elevation: 439.21
Ground Elevation: 434.65 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791859.229 Lat: 38.84132699
E: (Y): 2321978.062 Long: -90.07750722 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AJ6 for lithology Refer to construction log of SI-AI6 for well build
10									
15									
20									

Completion Depth: 57.2 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: ROXANA Public Works Yard Well #: SI-AIL6

Site Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AIL6

X: 2321978.062, Y: 791859.229

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/17/23 Date Finished: 2/18/23

Report Form Completed By: Brett Howell Date: 2/18/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.0'	Top of Riser Pipe
	____	0.0'	Ground Surface
	____	0.0'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	50.6'	Top of Seal
	____	52.6'	Top of Sand Pack
	____	54.15'	Top of Screen
	____	57.15'	Bottom of Screen
	____	57.15'	Bottom of Well
	____	57.15'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~50 min

Type of ~~Bentonite~~ Sand Seal - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Fine Sand

Installation Method: Tremie

Setting Time: 160 min

Type of Sand Pack: ~~Global Quartz Sand #7~~ Global Quartz Sand #8 BH

Grain Size: ~~#7 #8~~ (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304~~, SS316, PTFE, PVC, or Other BH
Pipe Above W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Pipe Below W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Screen	~~SS304~~, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AI7

Starting Date: 5/19/23
Completion Date: 5/20/23
Casing Elevation: 438.76
Ground Elevation: 434.49 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791869.153 Lat: 38.84135431
E: (Y): 2321952.904 Long: -90.07759551 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-8
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.65 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AI7

Starting Date: 5/19/23
Completion Date: 5/20/23
Casing Elevation: 438.76
Ground Elevation: 434.49 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791869.153 Lat: 38.84135431
E: (Y): 2321952.904 Long: -90.07759551 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-8
				3.4			SM	Loose, wet, dark yellowish brown (10 YR - 4/6), very fine grained silty SAND (SM)	
30				11.0				Becomes dark yellowish brown (10 YR - 3/4)	
				2.3			SW	Loose, wet, dark yellowish brown (10 YR - 4/6), fine to medium grained SAND (SW) with silt	
				15.4					
		100		73.0					
				156.0				▼	
35				901.0				Becomes dark yellowish brown (10 YR - 4/4) with trace silt	
				>15000					
				>15000					Sample SIAI7-38-052023 @0835
				>15000				Becomes dark gray (2.5 Y - 4/1)	
40				>15000					
				1200					
				699.0					
		100		159.0					
				164.8					
45				161.3				Loose, wet, gray (10 YR - 5/1), very fine to medium grained SAND (SW) with trace silt	
				146.0					
				541.0					
									Sample SIAI7-48-052023 @0845 Sample SIAI7-48-052023-MS Sample SIAI7-48-052023-MSD
		100		674.0					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.65 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AI7

Starting Date: 5/19/23
Completion Date: 5/20/23
Casing Elevation: 438.76
Ground Elevation: 434.49 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791869.153 Lat: 38.84135431
E: (Y): 2321952.904 Long: -90.07759551 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				1743			SW	SAME: Loose, wet, gray (10 YR - 5/1), very fine to medium grained SAND (SW) with trace silt	
				1789					
				1438					
		100		1586					
				1014			SP	Becomes very fine to fine grained SAND (SP)	
55				186.0			SW	Becomes fine to medium grained SAND (SW)	Sample SIAI7-55-052023 @0910
				176.0			ML	Soft, wet, very dark gray (10 YR - 3/1) sandy SILT (ML)	
								Bottom of boring at 57' bgs	
60									
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 34.65 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AI7

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AI7

X: 2321952.904, Y: 791869.153

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/19/23 Date Finished: 5/20/23

Report Form Completed By: Sam Beadle Date: 5/20/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ SB (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

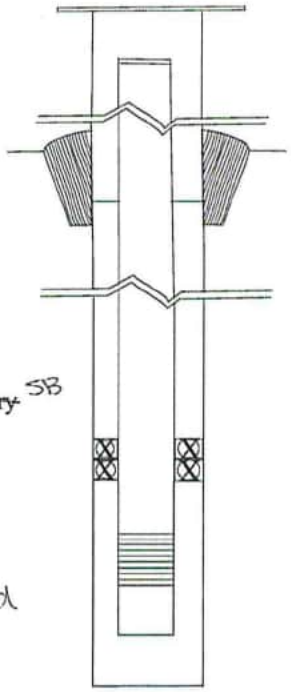
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	51.00'	Top of Seal
	53.00'	Top of Sand Pack
	54.00'	Top of Screen
	57.00'	Bottom of Screen
	57.00'	Bottom of Well
	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ SB
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2 ft
Bottom of Screen to End Cap (feet)	0 ft
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AI8

Starting Date: 3/17/23
Completion Date: 3/17/23
Casing Elevation: 438.49
Ground Elevation: 434.30 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791887.170 Lat: 38.84140384
E: (Y): 2321930.304 Long: -90.07767480 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AI7 for lithology Refer to construction log of SI-AI8 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AI8

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AI8

X: 2321930.304, Y: 791887.17

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

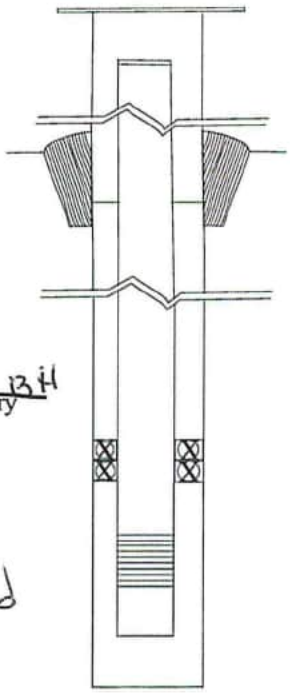
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/16/23 Date Finished: 3/17/23

Report Form Completed By: Brett Howell Date: 3/17/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		0.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.0'	Top of Seal
		53.0'	Top of Sand Pack
		54.0'	Top of Screen
		57.0'	Bottom of Screen
		57.0'	Bottom of Well
		57.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AJ6

Starting Date: 3/21/23
Completion Date: 3/21/23
Casing Elevation: 439.26
Ground Elevation: 434.94 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791836.549 Lat: 38.84126471
E: (Y): 2321978.493 Long: -90.07750578 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 28.5' refer to boring log VMP-14 Air knifed to 10' bgs Sample SIAJ6-032123-EB @1120 for 8260, GRO, DRO
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-AJ6

Starting Date: 3/21/23
Completion Date: 3/21/23
Casing Elevation: 439.26
Ground Elevation: 434.94 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791836.549 Lat: 38.84126471
E: (Y): 2321978.493 Long: -90.07750578 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 28.5' refer to boring log VMP-14
30				0.1				Loose, wet, brown (7.5 YR - 4/4), fine to medium grained SAND (SW) with trace silt	
				4.2					
				3.0				▼	
		83.3		0.6					
35				1.8					
				4.3				Becomes brown (7.5 YR - 4/2)	
				6.7					
				339.5			SW		
40				918.7				Becomes dark grayish brown (10 YR - 4/2)	Strong hydrocarbon odor Sample SIAJ6-40-032123 @1345
				>15000					
				>15000					
		100		>15000					
45				>15000					
				>15000					
				>15000					
				>15000				Becomes gray (10 YR - 5/1)	
									Sample SIAJ6-48-032123 @1420
		100		452.0					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AJ6

Starting Date: 3/21/23
Completion Date: 3/21/23
Casing Elevation: 439.26
Ground Elevation: 434.94 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791836.549 Lat: 38.84126471
E: (Y): 2321978.493 Long: -90.07750578 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		326.0 1019 1352 904.0 870.0 788.0 1512 486.0 388.0			SW	SAME: Loose, wet, gray (10 YR - 5/1), fine to medium grained SAND (SW) with trace silt	Sample SIAJ6-48-032123 @1430
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AJ6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-AJ6

X: 2321978.493, Y: 791836.549

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Mary Massa Date Started: 3/21/23 Date Finished: 3/21/23

Report Form Completed By: Brett Howell Date: 3/21/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~ 25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

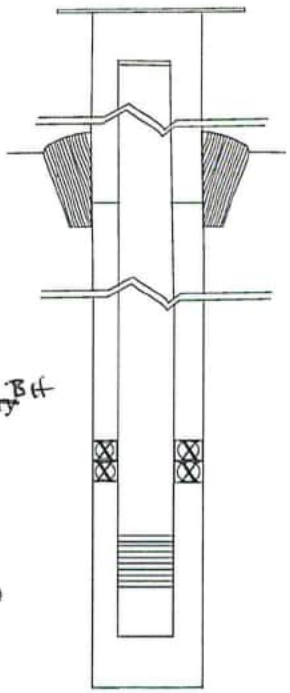
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.01'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AJ7

Starting Date: 4/12/23
Completion Date: 4/12/23
Casing Elevation: 439.15
Ground Elevation: 434.55 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791844.263 Lat: 38.84128592
E: (Y): 2321970.649 Long: -90.07753329 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AJ8 for lithology
10									Refer to construction log of SI-AJ7 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AJ7

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AJ7

X: 2321970.649, Y: 791844.263

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/11/23 Date Finished: 4/12/23

Report Form Completed By: Brett Howell Date: 4/12/23

ANNULAR SPACE DETAILS

Install/Drilled @ 16 degree angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~~20~~ 24 hrs

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ Slurry (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~~15~~ 15 mins

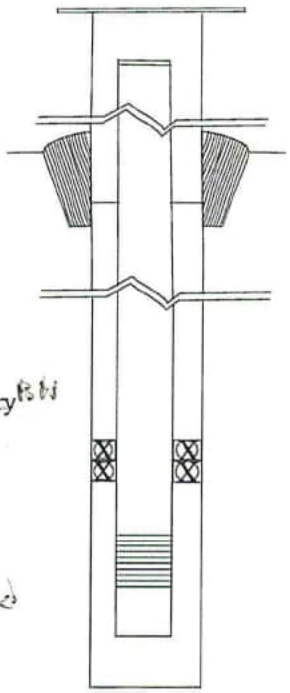
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	50.50'	Top of Seal
____	52.80'	Top of Sand Pack
____	54.00'	Top of Screen
____	57.00'	Bottom of Screen
____	57.00'	Bottom of Well
____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	7'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	57
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-AJ8

Starting Date: 4/13/23
Completion Date: 4/13/23
Casing Elevation: 438.83
Ground Elevation: 434.69 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791863.326 Lat: 38.84133830
E: (Y): 2321954.140 Long: -90.07759119 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AI7 for lithology Refer to construction log of SI-AJ8 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-AJ8

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-AJ8

X: 2321954.14, Y: 791863.326

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: Brett Howell

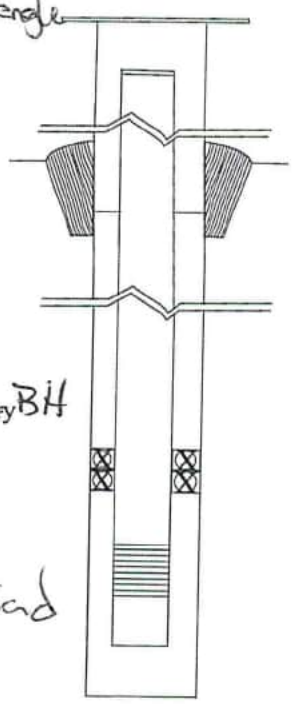
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/12/23 Date Finished: 4/13/23

Report Form Completed By: Brett Howell Date: 4/13/23

ANNULAR SPACE DETAILS

Installed/Drilled @ 15 degree angle



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
Top of Protective Casing	____	N/A	
Top of Riser Pipe	____	+2.00'	
Ground Surface	____	0.00'	
Top of Annular Sealant	____	0.00'	
Static Water Level (After Completion)	____	NM	
Top of Seal	____	51.00'	
Top of Sand Pack	____	53.00'	
Top of Screen	____	54.00'	
Bottom of Screen	____	59.00'	
Bottom of Well	____	57.00'	
Bottom of Borehole	____	57.00'	

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BM
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	5'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BA

LOG OF BORING
SI-BA1

Starting Date: 5/17/23
Completion Date: 5/17/23
Casing Elevation: 440.68
Ground Elevation: 436.08 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791848.099 Lat: 38.84129576
E: (Y): 2322225.970 Long: -90.07663686 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-BB2 for lithology Refer to construction log of SI-BA1 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BA1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-BA1

X: 2322225.97, Y: 791848.099

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

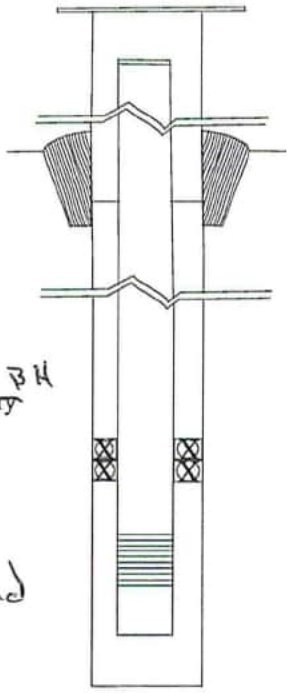
Logged By: Brett Howell Date Started: 5/17/23 Date Finished: 5/17/23

Report Form Completed By: Brett Howell Date: 5/17/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BL

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BA

LOG OF BORING
SI-BA2

Starting Date: 3/25/23
Completion Date: 3/25/23
Casing Elevation: 440.94
Ground Elevation: 436.69 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791833.125 Lat: 38.84125456
E: (Y): 2322256.213 Long: -90.07653073 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-BB2 for lithology
10									Refer to construction log of SI-BA2 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BA2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BA2

X: 2322256.213, Y: 791833.125

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

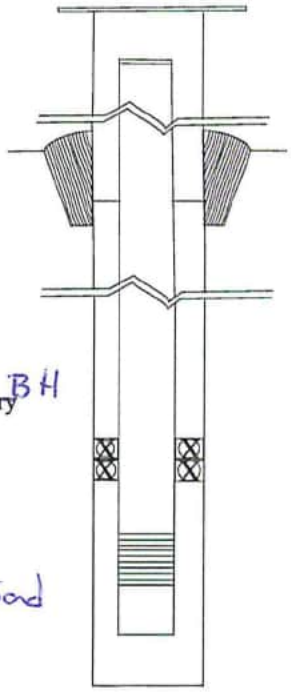
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/24/23 Date Finished: 3/25/23

Report Form Completed By: Brett Howell Date: 3/25/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.80'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
.creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	10"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	± 2.0'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BB

LOG OF BORING
SI-BB1

Starting Date: 4/14/23
Completion Date: 4/14/23
Casing Elevation: 440.60
Ground Elevation: 435.85 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791866.323 Lat: 38.84134584
E: (Y): 2322212.137 Long: -90.07668537 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BC1 for lithology Refer to construction log of SI-BB1 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BBi

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BB1

X: 2322212.137, Y: 791866.323

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevor Rose

Consulting Firm: AECOM Geologist: Brett Howell

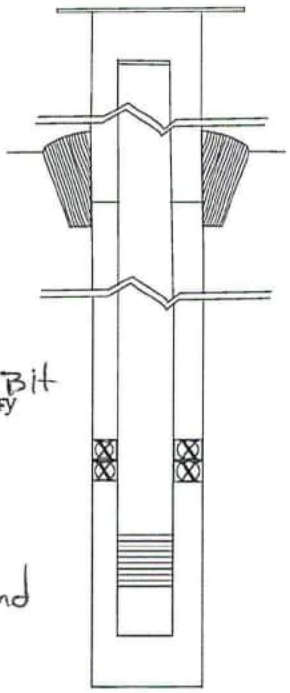
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/13/23 Date Finished: 4/14/23

Report Form Completed By: Brett Howell Date: 4/14/23

ANNULAR SPACE DETAILS

Installed/Drilled @ 15 degree angle.



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	5'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BB2

Starting Date: 5/22/23
Completion Date: 5/22/23
Casing Elevation: 440.27
Ground Elevation: 436.37 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791843.059 Lat: 38.84128186
E: (Y): 2322250.038 Long: -90.07655238 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of X-BB2 for lithology Refer to construction log of SI-BB2 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BB2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BB2

X: 2322250.038, Y: 791843.059

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/22/23 Date Finished: 5/22/23

Report Form Completed By: Brett Howell Date: 5/22/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 20° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~35 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

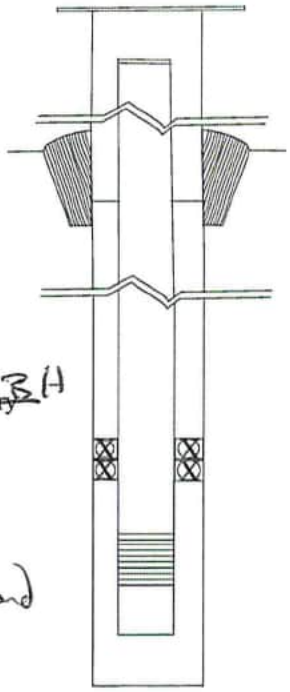
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.50'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	51.00'	Top of Seal
	53.00'	Top of Sand Pack
	54.00'	Top of Screen
	57.00'	Bottom of Screen
	57.00'	Bottom of Well
	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	Nim
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BB

LOG OF BORING
SI-BB3

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: 447.35
Ground Elevation: 442.80 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791848.764 Lat: 38.84129741
E: (Y): 2322292.563 Long: -90.07640306 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-BC3 for lithology Refer to construction log of SI-BB3 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BB3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BB3

X: 2322292.563, Y: 791848.764

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Mether

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

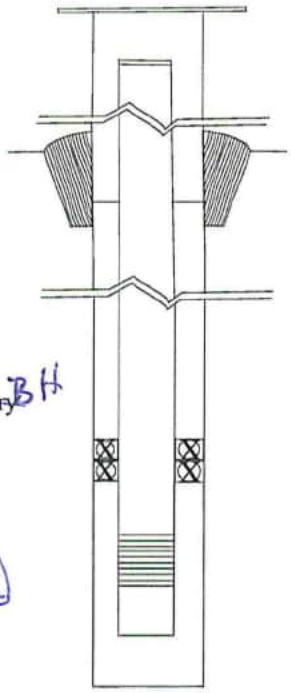
Logged By: Brett Howell Date Started: 6/15/23 Date Finished: 6/15/23

Report Form Completed By: Brett Howell Date: 6/15/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.01'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global QuartzSand #8

Installation Method: TREMIE PIPE

Setting Time: ~10min

Type of Sand Pack: Global QuartzSand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BC1

Starting Date: 5/13/23
Completion Date: 5/13/23
Casing Elevation: 448.12
Ground Elevation: 443.74 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791908.179 Lat: 38.84146075
E: (Y): 2322216.424 Long: -90.07667017 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-17 Air knifed to 10' bgs Blind drilled to 30' bgs - No recovery
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Versa Sonic Track
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BC1

Starting Date: 5/13/23
Completion Date: 5/13/23
Casing Elevation: 448.12
Ground Elevation: 443.74 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791908.179 Lat: 38.84146075
E: (Y): 2322216.424 Long: -90.07667017 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-17
30				10.1			SM	Loose, wet, brown (7.5 YR - 5/3), very fine to fine grained silty SAND (SM)	
				2.0				Becomes very fine to fine grained SAND (SP) with silt	
				8.3					
35		66.7		17.7					
				18.9					
				16.5					
				160.8					
40				164.1			SP		Sample SIBC1-40-051323 @0910
				134.1				▼	
				81.0					
				91.8					
				66.0					
45		100		864.8				Becomes dark gray (2.5 Y - 4/1) and fine to medium grained	
				1655				Becomes black (5 Y - 2.5/1)	
				5685				Becomes dark gray (5 Y - 4/1) and very fine to fine grained	
				>15000					
				>15000					Sample SICL1-49-051323 @0915 Sample SICL1-49-051323-DUP

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Versa Sonic Track
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BC1

Starting Date: 5/13/23
Completion Date: 5/13/23
Casing Elevation: 448.12
Ground Elevation: 443.74 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791908.179 Lat: 38.84146075
E: (Y): 2322216.424 Long: -90.07667017 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				1500			SP	SAME: Loose, wet, dark gray (5 Y - 4/1), very fine to fine grained SAND (SP)	Possible hydrocarbon (yellow 5 Y - 8/8 to olive yellow 5 Y - 6/6); free phase with soil (dark gray 5 Y - 4/1) Positive Indigo blue test
				4976					
				>15000			SM	Loose, wet, gray (5 Y - 5/1), fine to medium grained silty SAND (SM)	
		100		>15000				Becomes very fine to fine grained SAND (SP) with silt	
55				>15000			SP		
				>15000					
				>15000					Sample SIBC1-56-051323 @0945
								Bottom of boring at 57' bgs	
60									
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Versa Sonic Track
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BC1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-BC1

X: 2322216.424, Y: 791908.179

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Meffe

Consulting Firm: AECOM Geologist: B. Howell

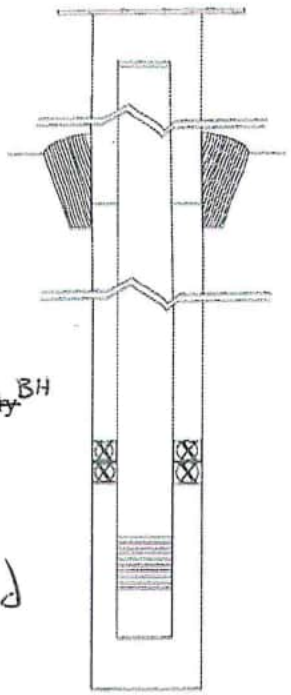
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: B Howell Date Started: 5/13/23 Date Finished: 5/13/23

Report Form Completed By: M. Miller Date: 5/13/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Screen	~~SS304~~, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BC2

Starting Date: 5/25/23
Completion Date: 5/25/23
Casing Elevation: 448.07
Ground Elevation: 443.62 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791913.183 Lat: 38.84147435
E: (Y): 2322271.752 Long: -90.07647590 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BD2 for lithology Refer to construction log of SI-BC2 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BC2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-BC2

X: 2322271.752, Y: 791913.183

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/25/23 Date Finished: 5/25/23

Report Form Completed By: Brett Howell Date: 5/25/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 20° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

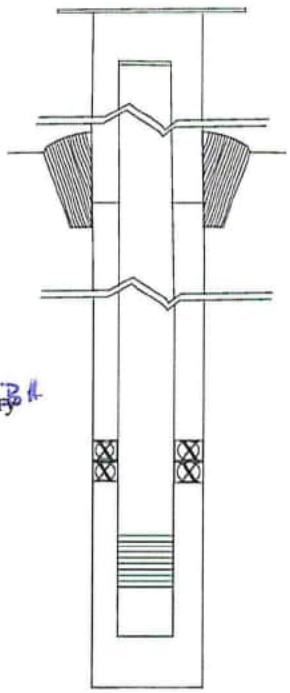
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.06'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BC3

Starting Date: 6/16/23
Completion Date: 6/16/23
Casing Elevation: 447.75
Ground Elevation: 443.37 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791878.366 Lat: 38.84137869
E: (Y): 2322292.990 Long: -90.07640146 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of X-BD3 for lithology
									Refer to construction log of SI-BC3 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BC3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BC3

X: 2322292.99, Y: 791878.366

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

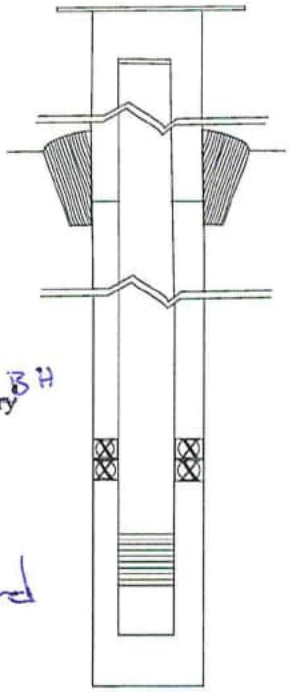
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/15/23 Date Finished: 6/16/23

Report Form Completed By: Brett Howell Date: 6/16/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00	Top of Seal
		53.00	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.00	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
ɔcreen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BC4

Starting Date: 6/13/23
Completion Date: 6/13/23
Casing Elevation: 447.54
Ground Elevation: 442.94 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791863.119 Lat: 38.84133679
E: (Y): 2322304.647 Long: -90.07636058 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-BC3 for lithology
10									Refer to construction log of SI-BC4 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BC4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BC4

X: 2322304.647, Y: 791863.119

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

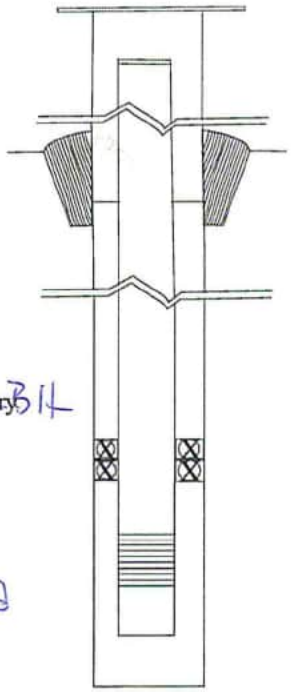
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/13/23 Date Finished: 6/13/23

Report Form Completed By: Brett Howell Date: 6/13/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal ~~Granular, Pellet, Slurry~~ Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	NA	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	51.00'	Top of Seal
____	53.00'	Top of Sand Pack
____	54.00'	Top of Screen
____	57.00'	Bottom of Screen
____	57.00'	Bottom of Well
____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	10
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BD1

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 448.07
Ground Elevation: 443.44 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791936.515 Lat: 38.84153856
E: (Y): 2322215.988 Long: -90.07667160 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BC1 for lithology Refer to construction log of SI-BD1 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BD7

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BD7

X: 2322215.988, Y: 791936.515

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

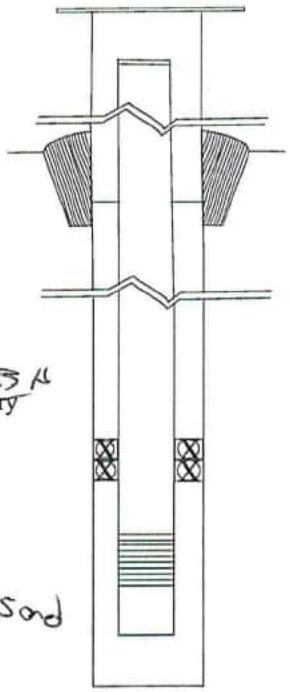
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/15/23 Date Finished: 5/16/23

Report Form Completed By: Brett Howell Date: 5/16/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Seal - ~~Granular, Pellet, Slurry~~ SAND BM (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#~~ 7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
Top of Protective Casing		N/A	
Top of Riser Pipe		+2.00'	
Ground Surface		0.00'	
Top of Annular Sealant		0.00'	
Static Water Level (After Completion)		NM	
Top of Seal		51.00'	
Top of Sand Pack		53.00'	
Top of Screen		54.00'	
Bottom of Screen		57.00'	
Bottom of Well		57.00'	
Bottom of Borehole		57.00	

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
ɔcreen	SS304, SS316, PTFE, PVC, or Other

BM

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	+2.0'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BD2

Starting Date: 3/27/23
Completion Date: 3/27/23
Casing Elevation: 448.19
Ground Elevation: 443.84 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791922.867 Lat: 38.84150097
E: (Y): 2322260.044 Long: -90.07651697 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-07
5									
10									
15									
20									

Completion Depth: 57.2 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 39 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BD2

Starting Date: 3/27/23
Completion Date: 3/27/23
Casing Elevation: 448.19
Ground Elevation: 443.84 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791922.867 Lat: 38.84150097
E: (Y): 2322260.044 Long: -90.07651697 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-07
30		66.7		2.9 2.5 1.7 5.4			SM	Loose, wet, brown (7.5 YR - 5/2), very fine to fine grained silty SAND (SM)	
35		66.7		3.8 5.6 5.3 2.3			SP	Loose, wet, dark yellowish brown (10 YR - 4/6), very fine to fine grained SAND (SP) with silt Becomes fine to medium grained sand with trace silt ▼	
40		30		385.1 373.2				Becomes dark grayish brown (10 YR - 4/2)	Strong hydrocarbon odor
45		30		1570					Strong hydrocarbon odor Sample SIBD2-46-032723 @1440

Completion Depth: 57.2 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 39 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
SI-BD2

Starting Date: 3/27/23
Completion Date: 3/27/23
Casing Elevation: 448.19
Ground Elevation: 443.84 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791922.867 Lat: 38.84150097
E: (Y): 2322260.044 Long: -90.07651697 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		8990 6794 15000 7600 15000			SW	Very loose, wet, very dark gray (10 YR - 3/1), fine to coarse grained SAND (SW) Becomes dark gray (10 YR - 4/1)	Sample SIBD2-53-032723 @1500
		100		5051 6467 6302 8601 4128				Becomes gray (10 YR - 5/1)	Sample SIBD2-56-032723 @1505
60								Bottom of boring at 57.2' bgs	
65									
70									

Completion Depth: 57.2 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 39 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM
USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BD2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BD2

X: 2322260.044, Y: 791922.867

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

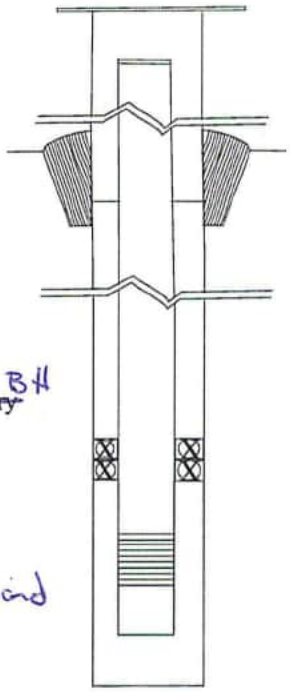
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/27/23 Date Finished: 3/27/23

Report Form Completed By: Brett Howell Date: 3/27/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		1.80'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.80'	Top of Seal
		53.00'	Top of Sand Pack
		54.20'	Top of Screen
		57.20'	Bottom of Screen
		57.20'	Bottom of Well
		57.20'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	5'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BD3

Starting Date: 6/22/23
Completion Date: 6/22/23
Casing Elevation: 447.89
Ground Elevation: 443.44 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791908.865 Lat: 38.84146243
E: (Y): 2322291.522 Long: -90.07640650 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 28.5' refer to boring log PD-07 Air knifed to 10' bgs
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BD3

Starting Date: 6/22/23
Completion Date: 6/22/23
Casing Elevation: 447.89
Ground Elevation: 443.44 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791908.865 Lat: 38.84146243
E: (Y): 2322291.522 Long: -90.07640650 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 28.5' refer to boring log PD-07
30		60		870.0			SP	Loose, wet, brown (10 YR - 4/3), very fine to fine grained SAND (SP) with silt	
				1781			CL	Medium stiff, wet, gray (10 YR - 5/1), medium plasticity CLAY (CL) with trace sand	Sample SIBD3-30-062223 @1215
				208.8			SC	Loose, wet, gray (10 YR - 5/1), very fine to fine grained clayey SAND (SC)	
				76.8			CL	Medium stiff, wet, gray (10 YR - 5/1), medium plasticity CLAY (CL) with trace sand	
35				118.0			SW	Gray (10 YR - 5/1), fine to medium grained SAND (SW) with silt	
				119.9			SM	Loose, wet, dark gray (10 YR - 4/1), very fine to fine grained silty SAND (SM)	
				106.4			SW	Loose, wet, very dark gray (10 YR - 3/1), fine to medium grained SAND (SW) with trace silt	
40		70		1778				Becomes fine to coarse grained	
				3100				Becomes very dark grayish brown (10 YR - 3/2)	
				2784					
				388.7				Becomes very dark gray (10 YR - 3/1)	
45				4488					
				>15000					
				>15000					Sample SIBD3-48-062223 @1210 Sample SIBD3-48-062223-DUP
		100		>15000					

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BD3

Starting Date: 6/22/23
Completion Date: 6/22/23
Casing Elevation: 447.89
Ground Elevation: 443.44 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791908.865 Lat: 38.84146243
E: (Y): 2322291.522 Long: -90.07640650 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		>15000 >15000 >15000 72.0 51.0 38.0			SW	SAME: Loose, wet, very dark gray (10 YR - 3/1), fine to coarse grained SAND (SW) with trace silt	Sample SIBD3-56-062223
								Bottom of boring at 57' bgs	
60									
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 40 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SE-BD3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SE-BD3

X: 2322291.522, Y: 791908.865

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/22/23 Date Finished: 6/22/23

Report Form Completed By: Brett Howell Date: 6/22/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

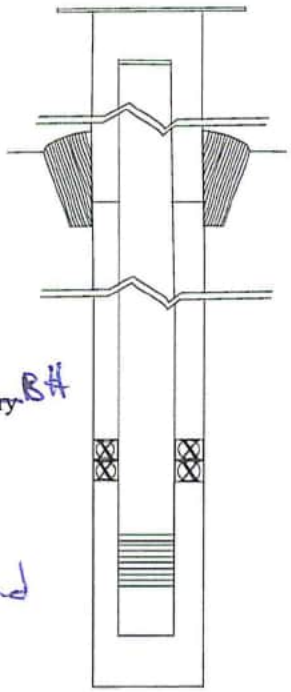
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		50.00	Top of Seal
		52.80	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	56
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BD4

Starting Date: 6/14/23
Completion Date: 6/14/23
Casing Elevation: 447.85
Ground Elevation: 443.21 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791892.942 Lat: 38.84141869
E: (Y): 2322298.741 Long: -90.07638121 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-BD3 for lithology Refer to construction log of SI-BD4 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BD4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-BD4

X: 2322298.741, Y: 791892.942

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

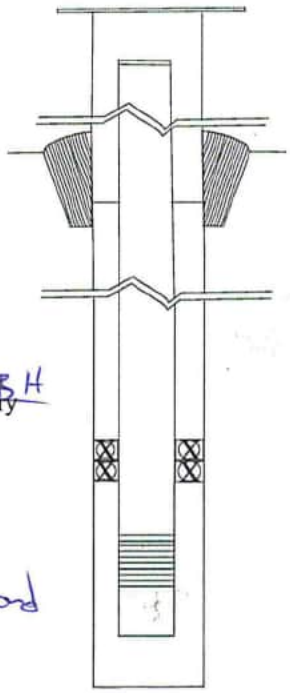
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/14/23 Date Finished: 6/14/23

Report Form Completed By: Brett Howell Date: 6/14/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~12 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BSN
Riser Pipe Above W.T.	~~SS304, SS316, PTFE, PVC, or Other~~
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	~~4~~ 2
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	6
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BE1

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 448.46
Ground Elevation: 443.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791967.745 Lat: 38.84162431
E: (Y): 2322217.265 Long: -90.07666701 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BF1 for lithology Refer to construction log of SI-BE1 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BF1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BF1

X: 2322217.265, Y: 791967.745

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Miller

Consulting Firm: AECOM Geologist: Brett Howell

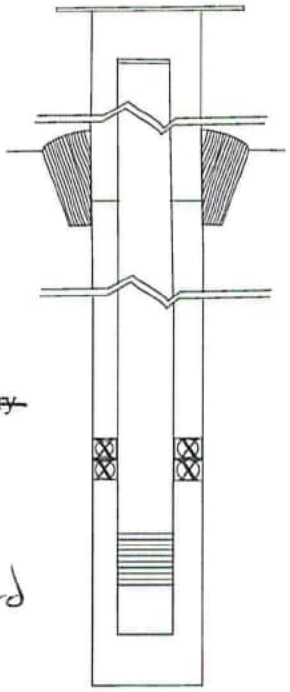
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/16/23 Date Finished: 5/16/23

Report Form Completed By: Brett Howell Date: 5/16/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-BE2

Starting Date: 3/28/23
Completion Date: 3/28/23
Casing Elevation: 448.21
Ground Elevation: 443.88 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791952.943 Lat: 38.84158355
E: (Y): 2322259.909 Long: -90.07651734 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log PD-07
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: 39 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BE2

Starting Date: 3/28/23
Completion Date: 3/28/23
Casing Elevation: 448.21
Ground Elevation: 443.88 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791952.943 Lat: 38.84158355
E: (Y): 2322259.909 Long: -90.07651734 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-07
				16.5					
30							SP	Loose, wet, light brown (7.5 YR - 6/3), very fine to fine grained SAND (SP) with silt	
				2.7					
				1.4			SW	Becomes fine to coarse grained SAND (SW) with trace silt	
		100		17.3					
				52.5					
				20.2			SM	Loose, wet, gray (7.5 YR - 5/1), very fine to fine grained silty SAND (SM)	
35							ML	Stiff to hard, gray (7.5 YR - 5/1), no plasticity SILT (ML) with fine grained sand	
				60.1				Very loose, moist, brown (7.5 YR - 5/4), fine to medium grained SAND (SW) with trace silt	
				28.9					
				28.3			SW		
				32.4				▼	
40									No recovery 40'-47' bgs
		16.7							
45									
				50.0					
		16.7		636.6				Beocmes loose, wet, and brown (7.5 YR - 4/2) with black streaking	Sample SIBE2-47-032923 @0935
				5497			SW		

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 39 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BE2

Starting Date: 3/28/23
Completion Date: 3/28/23
Casing Elevation: 448.21
Ground Elevation: 443.88 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791952.943 Lat: 38.84158355
E: (Y): 2322259.909 Long: -90.07651734 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		5074 9540 3871 >15000 >15000 >15000 >15000 >15000 >15000			SW	Loose, wet, gray (7.5 YR - 5/1), fine to medium grained SAND (SW) with trace silt	Sample SIBE2-53-032923 @0950 Strong hydrocarbon odor Sample SIBE2-56-032923 @0955
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 39 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BE2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: ~~SI-BE2~~

X: 2322259.909, Y: 791952.943

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

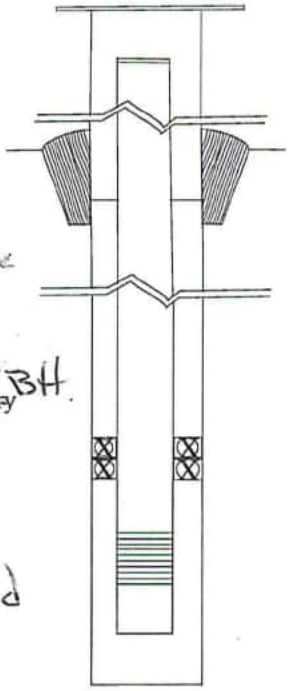
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/28/23 Date Finished: 3/29/23

Report Form Completed By: Brett Howell Date: 3/29/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.80'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		49.10'	Top of Seal
		52.00'	Top of Sand Pack
		54.20'	Top of Screen
		57.20'	Bottom of Screen
		57.20'	Bottom of Well
		57.20'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand

Installation Method: TREMIE PIPE

Setting Time: ~ 15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#~~ 7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	1.8'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	BH 54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BE3

Starting Date: 6/27/23
Completion Date: 6/27/23
Casing Elevation: 448.22
Ground Elevation: 443.73 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791938.221
E: (Y): 2322278.724
Lat: 38.84154308
Long: -90.07645134 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BE2 for lithology Refer to construction log of SI-BE3 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BE3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BE3

X: 2322278.724, Y: 791938.221

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/27/23 Date Finished: 6/27/23

Report Form Completed By: Brett Howell Date: 6/27/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

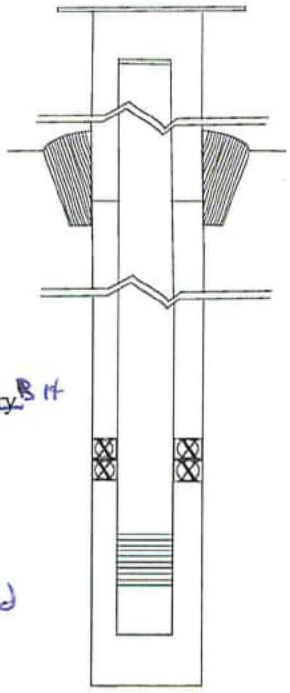
Type of Sand Pack: Global quartz sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	51.00'	Top of Seal
____	53.00'	Top of Sand Pack
____	54.00'	Top of Screen
____	57.00'	Bottom of Screen
____	57.00'	Bottom of Well
____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BE4

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: 447.85
Ground Elevation: 443.29 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791923.261 Lat: 38.84150195
E: (Y): 2322297.404 Long: -90.07638580 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-07
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Sonic 450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: 42 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BE4

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: 447.85
Ground Elevation: 443.29 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791923.261 Lat: 38.84150195
E: (Y): 2322297.404 Long: -90.07638580 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-07
30				379.0					
				1200				Loose, wet, very dark grayish brown (2.5 Y - 3/2), very fine grained silty SAND (SM)	
				290.0			SM		
		70		118.0					
				94.0				Loose, wet, gray (2.5 Y - 5/1), very fine to fine grained SAND (SP) with trace silt Becomes fine to medium grained	
35				118.0					
				>15000			SP		
				1600					Sample SIBE4-39-061523 @0850
				1000				Loose, wet, very dark gray (10 YR - 3/1), very fine to fine grained SAND (SP) with silt	
40				143.0					
				84.0			SP	Becomes black (2.5 Y - 2.5/1) ▼	
				166.0					
		100		5500					
				>15000					
45				>15000				Becomes fine to coarse grained SAND (SW)	
				>15000				Becomes fine to medium grained and black (GLEY 1 - 2.5/N)	
				>15000			SW		
				>15000				Becomes fine to coarse grained and very dark grayish brown (10 YR - 3/2)	
		100		>15000					Sample SIBE4-49-061523 @0855

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Sonic 450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BE4

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: 447.85
Ground Elevation: 443.29 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791923.261 Lat: 38.84150195
E: (Y): 2322297.404 Long: -90.07638580 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		>15000 >15000 1781 5204 1923 2300			SW	SAME: Loose, wet, very dark grayish brown (10 YR - 3/2), fine to coarse grained SAND (SW) Becomes dark grayish brown (10 YR - 4/3)	Sample SIBE4-55-061523 @0910
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Sonic 450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BE4

State Plane Coordinate: X Y (or) Latitude: ° ' " Longitude: ° ' " Borehole #: SI-BE4

X: 2322297.404, Y: 791923.261

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/15/23 Date Finished: 6/15/23

Report Form Completed By: Brett Howell Date: 6/15/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 mn

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND BH
Global Quartz Sand #8 (Choose One)

Installation Method: TREMIE PIPE

Setting Time: ~15 mn

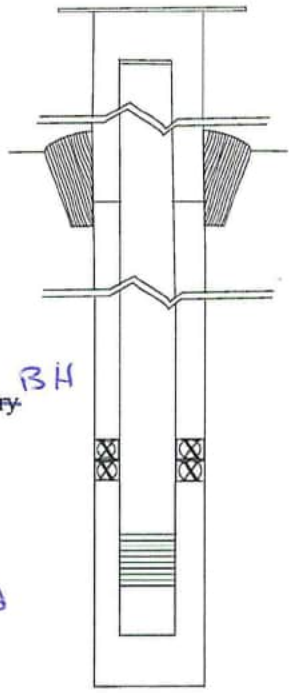
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		000'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	10
Riser Pipe Length (feet)	42
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF1

Starting Date: 5/11/23
Completion Date: 5/12/23
Casing Elevation: 448.43
Ground Elevation: 444.05 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791998.009 Lat: 38.84170741
E: (Y): 2322217.538 Long: -90.07666595 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log PD-2
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 43 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF1

Starting Date: 5/11/23
Completion Date: 5/12/23
Casing Elevation: 448.43
Ground Elevation: 444.05 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791998.009 Lat: 38.84170741
E: (Y): 2322217.538 Long: -90.07666595 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-2
30				1.2				Loose, wet, brown (7.5 YR - 4/4), very fine to fine grained SAND (SP) with silt	
				2.8					
35		50		2.9					
				2.7					
				2.5			SP		
40				11.4					
				29.2					
				24.9					
				30.4					
				102.4				Becomes grayish brown (10 YR - 5/2) and fine to medium grained	
45		100		216.0				Becomes dark gray (10 YR - 4/1)	
				394.1				Becomes very dark gray (10 YR - 3/1)	
				>15000					
				>15000			SW	Becomes fine to coarse grained SAND (SW)	Sample SIBF1-48-051223 @0855 Sample SIBF1-48-051223-DUP
				>15000			SP	Becomes grayish brown (10 YR - 5/2) and fine to medium grained SAND (SP)	

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 43 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
SI-BF1

Starting Date: 5/11/23
Completion Date: 5/12/23
Casing Elevation: 448.43
Ground Elevation: 444.05 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791998.009 Lat: 38.84170741
E: (Y): 2322217.538 Long: -90.07666595 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		>15000 >15000 >15000 >15000 >15000 >15000 >15000			SP	SAME: Loose, wet, grayish brown (10 YR - 5/2), fine to medium grained SAND (SP)	Sample SIBF1-56-051223 @0915
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 43 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM
USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BF1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-BF1

X: 2322217.538, Y: 791998.009

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Mcher

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/11/23 Date Finished: 5/12/23

Report Form Completed By: Brett Howell Date: 5/12/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) — Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

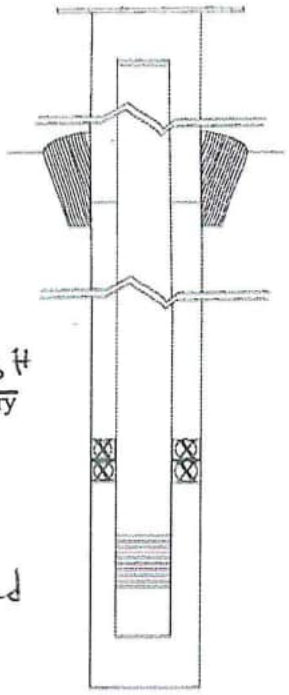
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF2

Starting Date: 3/30/23
Completion Date: 3/30/23
Casing Elevation: 448.30
Ground Elevation: 444.07 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791982.789 Lat: 38.84166550
E: (Y): 2322259.705 Long: -90.07651796 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of T-BG2 for lithology
10									Refer to construction log of SI-BF2 for well build
15									
20									

Completion Depth: 57.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BF2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BF2

X: 2322259.705, Y: 791982.789

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

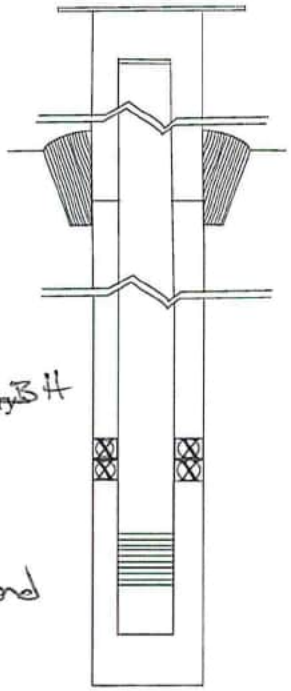
Logged By: Brett Howell Date Started: 3/30/23 Date Finished: 3/30/23

Report Form Completed By: Brett Howell Date: 3/30/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	1.90'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	50.50'	Top of Seal
	52.90'	Top of Sand Pack
	54.10'	Top of Screen
	57.10'	Bottom of Screen
	57.10'	Bottom of Well
	57.10'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	(SS304) SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304 SS316, PTFE, PVC, or Other
Screen	SS304 SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	5'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF3

Starting Date: 6/29/23
Completion Date: 6/29/23
Casing Elevation: 448.50
Ground Elevation: 443.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791967.905 Lat: 38.84162458
E: (Y): 2322277.970 Long: -90.07645388 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log PD-07
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: 41 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF3

Starting Date: 6/29/23
Completion Date: 6/29/23
Casing Elevation: 448.50
Ground Elevation: 443.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791967.905 Lat: 38.84162458
E: (Y): 2322277.970 Long: -90.07645388 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-07
30									No recovery 28.5'-34' bgs
		50		0.0			SW	Loose, wet, grayish brown (10 YR - 5/2), very fine to medium grained SAND (SW) with trace silt	
				0.0					
35				0.0			CL	Stiff, wet, grayish brown (10 YR - 5/2), very fine to fine grained sandy CLAY (CL)	
				0.0			SW	Loose, wet, dark yellowish brown (10 YR - 4/4), fine to medium grained SAND (SW) with trace silt	
				0.0				Becomes brown (10 YR - 5/3)	
				16.8			SP	Becomes very fine to fine grained SAND (SP)	
				17.5				Becomes brown (7.5 YR - 5/2)	
40				93.3				Becomes fine to medium grained	
				67.0					
				198.6					
		100		115.0				Becomes dark gray (2.5 Y - 4/1)	
				119.6					
45				166.1					
				1620			SW	Becomes fine to coarse grained SAND (SW)	
				>15000				Becomes very dark gray (2.5 Y - 3/1)	Sample SIBF3-48-062923 @1050
		100		>15000				Becomes dark gray (2.5 Y - 4/1)	Sample SIBF3-48-062923-DUP

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF3

Starting Date: 6/29/23
Completion Date: 6/29/23
Casing Elevation: 448.50
Ground Elevation: 443.89 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791967.905 Lat: 38.84162458
E: (Y): 2322277.970 Long: -90.07645388 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				>15000			SW	SAME: Loose, wet, dark gray (2.5 Y - 4/1), fine to coarse grained SAND (SW)	
				>15000			SM	Loose, wet, gray (2.5 Y - 5/1), very fine to fine grained silty SAND (SM)	
				>15000				Becomes fine to medium grained SAND (SW)	
		100		>15000					
55				>15000			SW		
				>15000					
				>15000					Sample SIBF3-56-062923 @1120 Sample SIBF3-56-062923-MS Sample SIBF3-56-062923-MSD
								Bottom of boring at 57' bgs	
60									
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BF3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: SI-BF3

X: 2322277.97, Y: 791967.905

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/29/23 Date Finished: 6/29/23

Report Form Completed By: Brett Howell Date: 6/29/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

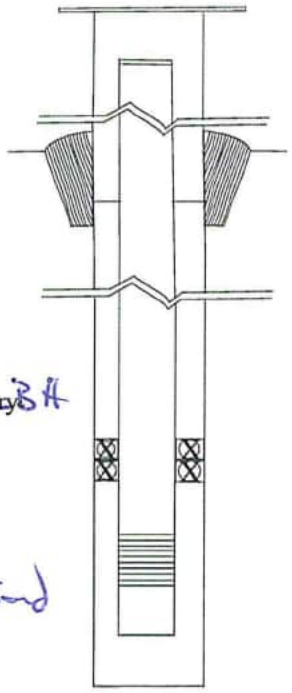
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BK

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PW\ SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BF4

Starting Date: 6/28/23
Completion Date: 6/28/23
Casing Elevation: 447.98
Ground Elevation: 443.54 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791953.005 Lat: 38.84158364
E: (Y): 2322290.636 Long: -90.07640946 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-BF3 for lithology Refer to construction log of SI-BF4 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

- Geoprobe
- Air Knife
- Hand Auger
- Sonic
- Splitspoon Sampler
- Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BF4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-BP4

X: 2322290.636, Y: 791953.005

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trent Howe

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/28/23 Date Finished: 6/28/23

Report Form Completed By: Brett Howell Date: 6/28/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - Granular, Pellet, Slurry (Choose One) BHA

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

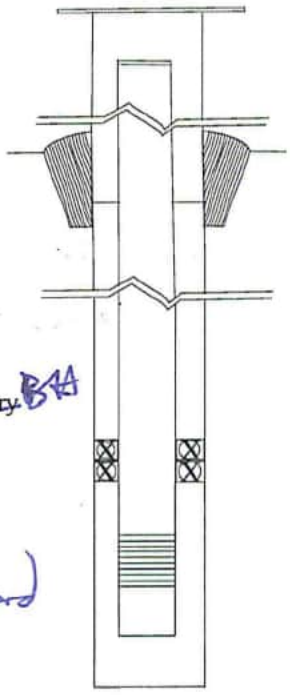
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	51.00'	Top of Seal
____	53.00'	Top of Sand Pack
____	54.00'	Top of Screen
____	57.00'	Bottom of Screen
____	57.00'	Bottom of Well
____	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BG1

Starting Date: 5/9/23
Completion Date: 5/9/23
Casing Elevation: 448.20
Ground Elevation: 443.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792038.128 Lat: 38.84181758
E: (Y): 2322213.125 Long: -90.07668130 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-BF1 for lithology Refer to construction log of SI-BG1 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BG1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: SI-BG1

X: 2322213.125, Y: 792038.128

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

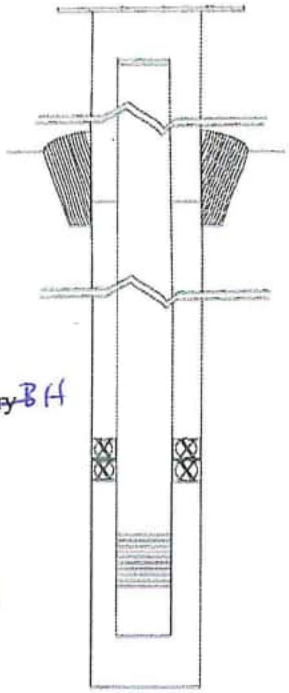
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/9/23 Date Finished: 5/9/23

Report Form Completed By: Brett Howell Date: 5/9/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00' ~~49.00~~	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 m.n

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 m.n

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	2"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	0'
Screen Length (1st slot to last slot) (feet)	3'
Total Length of Casing (feet)	54'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BG2

Starting Date: 6/14/23
Completion Date: 6/14/23
Casing Elevation: 449.10
Ground Elevation: 444.31 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792013.677 Lat: 38.84175032
E: (Y): 2322258.839 Long: -90.07652089 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of T-BG2 for lithology
10									Refer to construction log of SI-BG2 for well build
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BG2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ° ____ ' ____ " Longitude: ____ ° ____ ' ____ " Borehole #: SI-BG2

X: 2322258.839, Y: 792013.677

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

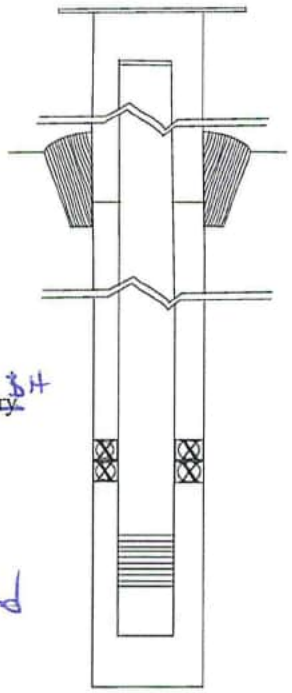
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/14/23 Date Finished: 6/14/23

Report Form Completed By: Brett Howell Date: 6/29/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		51.00'	Top of Seal
		53.00'	Top of Sand Pack
		54.00'	Top of Screen
		57.00'	Bottom of Screen
		57.00'	Bottom of Well
		57.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ BH (Choose One)
Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-BG3

Starting Date: 7/12/23
Completion Date: 7/12/23
Casing Elevation: 447.86
Ground Elevation: 443.88 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791997.886 Lat: 38.84170691
E: (Y): 2322277.334 Long: -90.07645601 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of T-BG2 for lithology Refer to construction log of SI-BG3 for well build
5									
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BG3

State Plane Coordinate: X____ Y____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-BG3

X: 2322277.334, Y: 791997.886

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

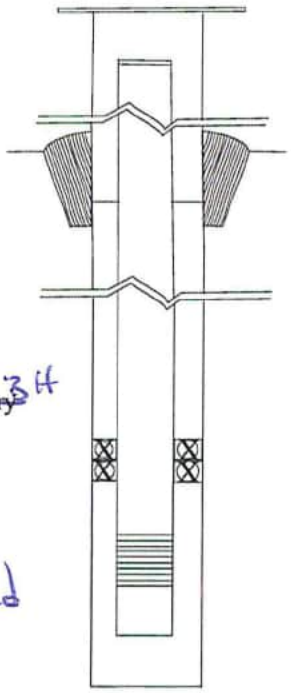
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 7/12/23 Date Finished: 7/12/23

Report Form Completed By: Brett Howell Date: 7/12/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		N.M	Static Water Level (After Completion)
		50.50	Top of Seal
		52.50	Top of Sand Pack
		54.00	Top of Screen
		57.00	Bottom of Screen
		57.00	Bottom of Well
		57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ 3/4 Global Quartz Sand #8 (Choose One)

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

SS 4

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BH

LOG OF BORING
SI-BH2

Starting Date: 5/24/23
Completion Date: 5/24/23
Casing Elevation: 447.22
Ground Elevation: 444.35 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792032.073 Lat: 38.84180082
E: (Y): 2322261.536 Long: -90.07651135 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BH3 for lithology Refer to construction log of SI-BH2 for well build
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-BH2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: SI-BH2

X: 2322261.536, Y: 792032.073

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Mcbar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/23/23 Date Finished: 5/24/23

Report Form Completed By: Brett Howell Date: 5/24/23

ANNULAR SPACE DETAILS

Drilled/installed @ 12° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

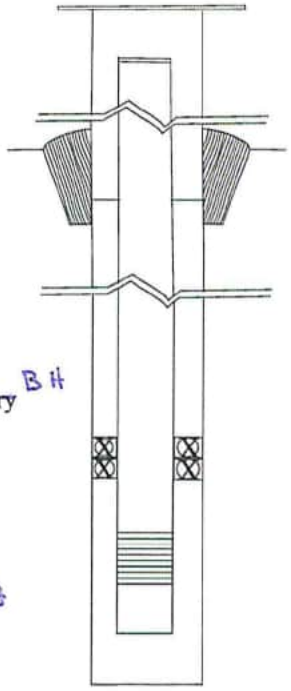
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	51.00' / 53.00'	Top of Seal
	~~53~~ 53 BH	Top of Sand Pack
	54.00'	Top of Screen
	57.00'	Bottom of Screen
	57.00'	Bottom of Well
	57.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BH

LOG OF BORING
SI-BH3

Starting Date: 7/14/23
Completion Date: 7/14/23
Casing Elevation: 448.48
Ground Elevation: 444.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792027.809 Lat: 38.84178907
E: (Y): 2322278.080 Long: -90.07645329 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Sample SIBH3-071423-EB @1010
10									
15									
20									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BI

LOG OF BORING
SI-BH3

Starting Date: 7/14/23
Completion Date: 7/14/23
Casing Elevation: 448.48
Ground Elevation: 444.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792027.809 Lat: 38.84178907
E: (Y): 2322278.080 Long: -90.07645329 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
30		70		0.0				Loose, wet, brown (2.5 YR - 5/3), fine to medium grained SAND (SW) with trace silt	
				0.0					
				0.0					
				0.0					
35				0.0					
				0.0				Becomes brown (7.5 YR - 5/4)	
							SW		
40				0.0					
				0.0				Becomes brown (7.5 YR - 5/2) ▼	
		50		0.0					
45				0.0					
				3.6				Becomes dark gray (7.5 YR - 4/1) and very fine to medium grained with silt and trace black streaking	Sample SIBH3-48-071423 @1250
		47.1		3.2				Becomes gray (10 YR - 5/1) and fine to medium grained with trace silt	

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BH

LOG OF BORING
SI-BH3

Starting Date: 7/14/23
Completion Date: 7/14/23
Casing Elevation: 448.48
Ground Elevation: 444.11 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792027.809 Lat: 38.84178907
E: (Y): 2322278.080 Long: -90.07645329 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		47.1		7.6 85.5 114.3 128.5			SW	SAME: Loose, wet, gray (10 YR - 5/1), fine to medium grained SAND (SW) with trace silt Becomes dark gray (10 YR - 4/1) and fine to coarse grained Trace gravels	Sample SIBH3-56-071423 @1430
60								Bottom of boring at 57' bgs	
65									
70									

Completion Depth: 57.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 41 ft., After AD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: IL9115900002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: ST-BH3

Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: ST-BH3

X: 2322278.08, Y: 792027.809

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: Alex Duncan

Consulting Firm: ~~HD Sonic~~ BAH AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable water

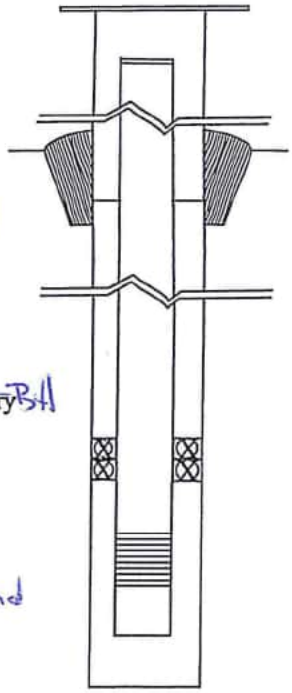
Logged By: Brett Howell Date Started: 7/14/23 Date Finished: 7/14/23

Report Form Completed By: Brett Howell Date: 7/14/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00	Top of Riser Pipe
____	0.00	Ground Surface
____	0.00	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	51.50	Top of Seal
____	53.00	Top of Sand Pack
____	54.00	Top of Screen
____	57.00	Bottom of Screen
____	57.00	Bottom of Well
____	57.00	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH
Global Quartz Sand #8 (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: Tremie Pipe

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	54
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CA1

Starting Date: 10/30/23
Completion Date: 10/30/23
Casing Elevation: 440.57
Ground Elevation: 436.37 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791876.536 Lat: 38.84137398
E: (Y): 2322176.423 Long: -90.07681072 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-107 for lithology Refer to construction log of SI-CA1 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CA3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-GA1

X: 2322176.423, Y: 791876.536

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharringhausen

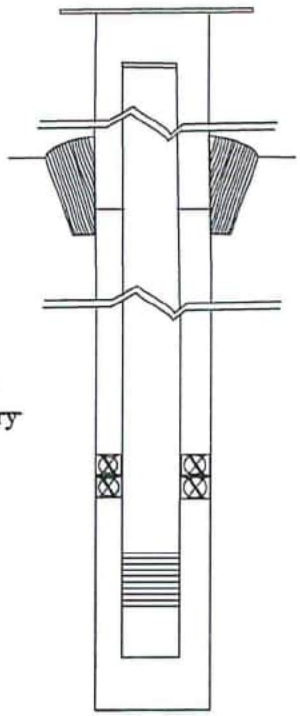
Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/30/23 Date Finished: 10/30/23

Report Form Completed By: BRETT HOWELL Date: 10/30/23

ANNULAR SPACE DETAILS



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	NA	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	~35.00'	Static Water Level (After Completion)
	63.00'	Top of Seal
	65.00'	Top of Sand Pack
	66.00'	Top of Screen
	69.00'	Bottom of Screen
	69.60'	Bottom of Well
	69.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~60 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 SAND (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Covia Filtersil

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: NA (if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	69
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SI_BO

LOG OF BORING
SI-CA2

Starting Date: 10/27/23
Completion Date: 10/27/23
Casing Elevation: 441.06
Ground Elevation: 436.52 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791884.267 Lat: 38.84139525
E: (Y): 2322160.983 Long: -90.07686490 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-105 for lithology Refer to construction log of SI-CA2 for well build
55									

Completion Depth: 55.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: ST-GA2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: ST-GA2

X: 2322160.983, Y: 791884.267

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharninghausen

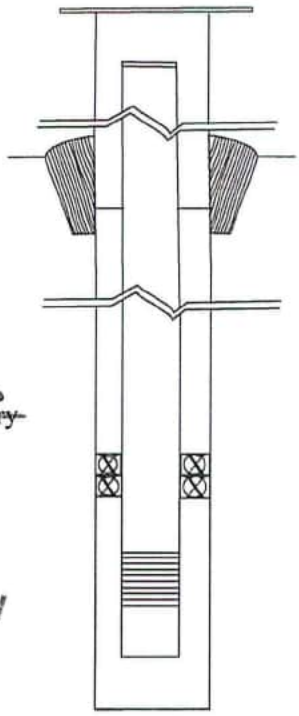
Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/27/23 Date Finished: 10/27/23

Report Form Completed By: BRETT HOWELL Date: 10/27/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		~35.00	Static Water Level (After Completion)
		49.00	Top of Seal
		51.00	Top of Sand Pack
		52.00	Top of Screen
		55.00	Bottom of Screen
		55.00	Bottom of Well
		55.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~24hr min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 5.4MS (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Coarse Filter Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: NA (if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	55
Screen Slot Size **	0.01

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CA3

Starting Date: 10/23/23
Completion Date: 10/23/23
Casing Elevation: 440.91
Ground Elevation: 436.68 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791895.804 Lat: 38.84142694
E: (Y): 2322155.942 Long: -90.07688256 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-105 for lithology Refer to construction log of SI-CA3 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CA3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-CA3

X: 2322155.942, Y: 791895.804

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharr inghauser

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/23/23 Date Finished: 10/23/23

Report Form Completed By: BRETT HOWELL Date: 10/23/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

ype of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~60 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #5 SAND
(Choose One)

Installation Method: Tremie

Setting Time: ~10 min

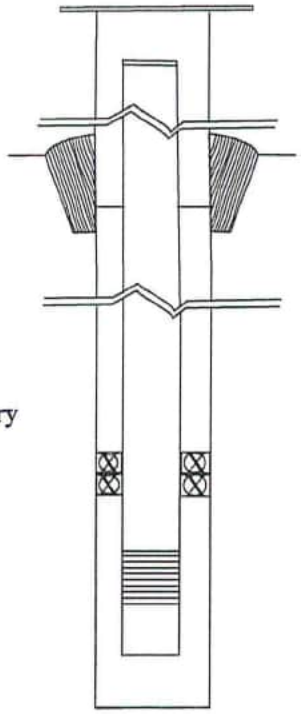
Type of Sand Pack: Colia F. Hepsil

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: TREMIE PIPE



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		~35.00'	Static Water Level (After Completion)
		63.00'	Top of Seal
		65.00'	Top of Sand Pack
		66.00'	Top of Screen
		69.00'	Bottom of Screen
		69.06'	Bottom of Well
		69.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	~~SS304, SS316, PTFE, PVC, or Other~~
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	68.50
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CC1

Starting Date: 10/26/23
Completion Date: 10/26/23
Casing Elevation: 440.83
Ground Elevation: 436.49 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791850.947 Lat: 38.84130373
E: (Y): 2322169.056 Long: -90.07683668 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-106 for lithology Refer to construction log of SI-CC1 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SE-CC 1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SE-CC1

X: 2322169.056, Y: 791850.947

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

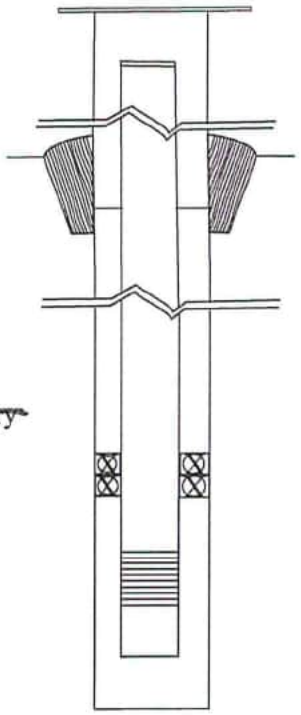
Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/26/23 Date Finished: 10/26/23

Report Form Completed By: BRETT HOWELL Date: 10/26/23

ANNULAR SPACE DETAILS



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00	Top of Riser Pipe
	0.00'	Ground Surface
	2.00'	Top of Annular Sealant
	~35.00'	Static Water Level (After Completion)
	62.90'	Top of Seal
	65.00'	Top of Sand Pack
	66.00'	Top of Screen
	69.00'	Bottom of Screen
	69.00'	Bottom of Well
	69.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of Bentonite Seal - ~~Granular, Pellet, Slurry~~ #8 - 3/4" (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Cavin. F. Hansl

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: NA (if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	~~69~~ 69
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CC2

Starting Date: 10/25/23
Completion Date: 10/25/23
Casing Elevation: 440.83
Ground Elevation: 436.60 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791861.937 Lat: 38.84133394
E: (Y): 2322158.416 Long: -90.07687399 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-106 for lithology Refer to construction log of SI-CC2 for well build
55									

Completion Depth: 55.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CC2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-CC2

X: 2322158.416, Y: 791861.937

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/25/23 Date Finished: 10/25/23

Report Form Completed By: BRETT HOWELL Date: 10/25/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 SAND
(Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

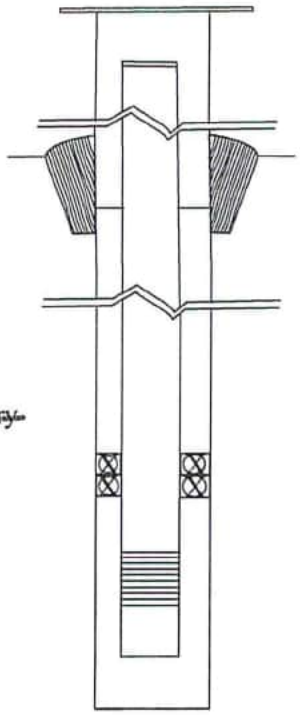
Type of Sand Pack: Covia Filtersil

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: TREMIE PIPE



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		~35.00'	Static Water Level (After Completion)
		48.00'	Top of Seal
		51.00'	Top of Sand Pack
		52.00'	Top of Screen
		55.00'	Bottom of Screen
		55.00'	Bottom of Well
		55.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

~~Protective Casing~~	~~SS304, SS316, PTFE, PVC, or Other~~
~~er Pipe Above W.T.~~	SS304, SS316, PTFE, PVC, or Other
~~iser Pipe Below W.T.~~	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3.0
Total Length of Casing (feet)	~~5.0~~ 5.0
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CC3

Starting Date: 10/31/23
Completion Date: 10/31/23
Casing Elevation: 441.17
Ground Elevation: 436.48 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791872.607 Lat: 38.84136326
E: (Y): 2322148.628 Long: -90.07690832 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-106 for lithology Refer to construction log of SI-CC3 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CC3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-CC3

X: 2322148.628, Y: 791872.607

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharringhausen

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/31/23 Date Finished: 10/31/23

Report Form Completed By: BRETT HOWELL Date: 10/31/23

ANNUAL SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 SAND
(Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

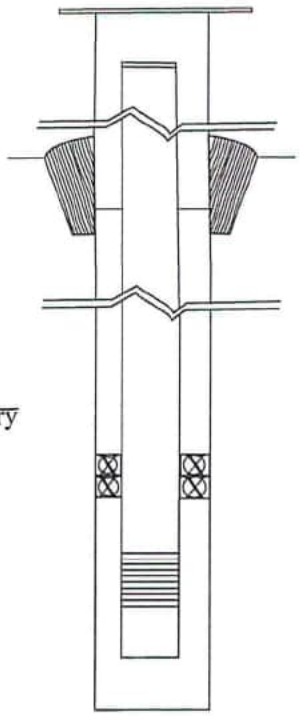
Type of Sand Pack: Covia Filter #1

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: TREMIE PIPE



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		~35.00'	Static Water Level (After Completion)
		63.00'	Top of Seal
		65.00'	Top of Sand Pack
		66.00'	Top of Screen
		69.00'	Bottom of Screen
		69.00'	Bottom of Well
		69.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	69
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CC4

Starting Date: 10/24/23
Completion Date: 10/24/23
Casing Elevation: 440.50
Ground Elevation: 436.57 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791884.638 Lat: 38.84139633
E: (Y): 2322137.967 Long: -90.07694571 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-105 for lithology Refer to construction log of SI-CC4 for well build
55									

Completion Depth: 55.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Well #: ~~SI-CA1~~ SI-CC4

Site Name: FORMER ROXANA PUBLIC WORKS YARD

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____

X: 2322137.967, Y: 791884.638

Borehole #: ~~SI-CA1~~ ~~BA~~ SI-CC4

Surveyed by: Kowelman Engineering Inc.

IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING

Driller: Josh Edwards

Consulting Firm: AECOM

Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER

Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL

Date Started: 10/24/23 Date Finished: 10/24/23

Report Form Completed By: BRETT HOWELL

Date: 10/24/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~60 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ (Choose One)

Installation Method: Tremie

Setting Time: ~10 min

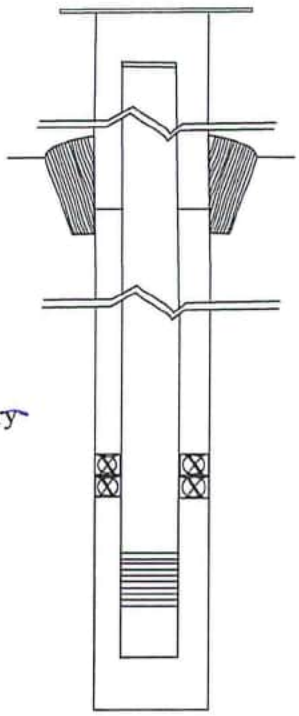
Type of Sand Pack: Coving Filtersil

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: TREMIE PIPE



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	~35.00'	Static Water Level (After Completion)
____	48.00'	Top of Seal
____	51.00'	Top of Sand Pack
____	52.00'	Top of Screen
____	55.00'	Bottom of Screen
____	55.00'	Bottom of Well
____	55.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	~~68~~ 2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3.0
Total Length of Casing (feet)	~~71~~ ~~3.68~~ 55
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CC5

Starting Date: 10/23/23
Completion Date: 10/23/23
Casing Elevation: 440.83
Ground Elevation: 436.65 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791893.875 Lat: 38.84142170
E: (Y): 2322134.603 Long: -90.07695749 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-102 for lithology Refer to construction log of SI-CC5 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CC5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI-CC5

X: 2322134.603, Y: 791893.875

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

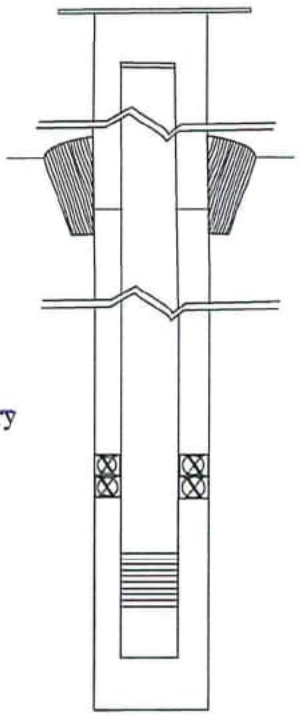
Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/23/23 Date Finished: 10/23/23

Report Form Completed By: BRETT HOWELL Date: 10/23/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		~35.00'	Static Water Level (After Completion)
		62.50'	Top of Seal
		64.90'	Top of Sand Pack
		66.00'	Top of Screen
		69.00'	Bottom of Screen
		69.00'	Bottom of Well
		69.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~60 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 BRAND (Choose One)

Installation Method: Tremie

Setting Time: ~10 min

Type of Sand Pack: Covia F.I.T.-S.I

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
~~r~~ Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
~~ser~~ Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	~~66~~ 2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3.0
Total Length of Casing (feet)	~~77~~ 3.0
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_BO

LOG OF BORING
SI-CD3

Starting Date: 11/1/23
Completion Date: 11/1/23
Casing Elevation: 441.12
Ground Elevation: 436.44 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791858.704 Lat: 38.84132510
E: (Y): 2322143.770 Long: -90.07692543 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-106 for lithology Refer to construction log of SI-CD3 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CD3

State Plane Coordinate: X _____ Y _____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: SI-CD3

X: 2322143.77, Y: 791858.704

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharringhausen

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 11/1/23 Date Finished: 11/1/23

Report Form Completed By: BRETT HOWELL Date: 11/1/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~60 min

Type of Bentonite Seal - ~~Granular, Pellet, Slurry~~ #8 SAND
(Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

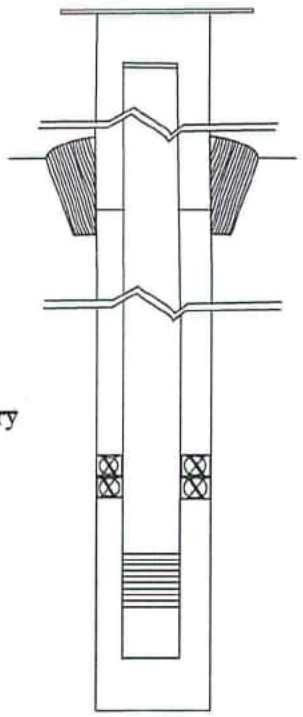
Type of Sand Pack: Cavia Filter Sil

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: TREMIE PIPE



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		~35.00'	Static Water Level (After Completion)
		63.00'	Top of Seal
		65.00'	Top of Sand Pack
		66.00'	Top of Screen
		69.00'	Bottom of Screen
		69.00'	Bottom of Well
		69.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL
(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	
ID of Riser Pipe (inches)	
Protective Casing Length (feet)	
Riser Pipe Length (feet)	
Bottom of Screen to End Cap (feet)	
Screen Length (1st slot to last slot) (feet)	
Total Length of Casing (feet)	
Screen Slot Size **	

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SI_Bo

LOG OF BORING
SI-CD5

Starting Date: 11/1/23
Completion Date: 11/1/23
Casing Elevation: 440.13
Ground Elevation: 435.81 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791880.638 Lat: 38.84138540
E: (Y): 2322118.351 Long: -90.07701460 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-104 for lithology Refer to construction log of SI-CD5 for well build
69									

Completion Depth: 69.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: SI-CD5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: SI CD5

X: 2322118.351, Y: 791880.638

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

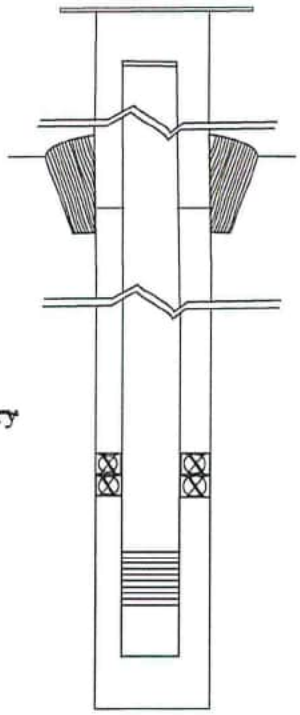
Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 11/1/23 Date Finished: 11/1/23

Report Form Completed By: BRETT HOWELL Date: 11/1/23

ANNULAR SPACE DETAILS



Elevations (MSL)*	Depths (BGS) (.01ft.)	
____	N/A	Top of Protective Casing
____	+2.00	Top of Riser Pipe
____	0.00	Ground Surface
____	0.00	Top of Annular Sealant
____	~35.00	Static Water Level (After Completion)
____	62.70	Top of Seal
____	64.90	Top of Sand Pack
____	66.00	Top of Screen
____	69.00	Bottom of Screen
____	69.00	Bottom of Well
____	69.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~40 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 SAND (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Covia Filtersil

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: NA (if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	2
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	3
Total Length of Casing (feet)	69
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AA0

Starting Date: 4/28/23
Completion Date: 4/28/23
Casing Elevation: 446.18
Ground Elevation: 443.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 792000.939 Lat: 38.84171571
E: (Y): 2322122.114 Long: -90.07700097 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AA1 for lithology Refer to construction log of X-AA0 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AA0

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-AA0

X: 2322122.114, Y: 792000.939

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: James Carrino

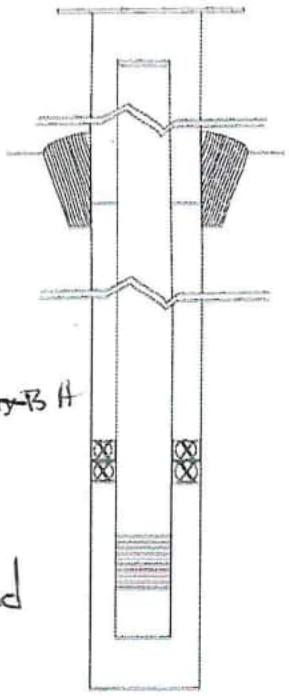
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: James Carrino Date Started: 4/28/23 Date Finished: 4/28/23

Report Form Completed By: Brett Howell Date: 4/28/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.00'	Top of Riser Pipe
	____	0.00'	Ground Surface
	____	~~0.00~~'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	20.80'	Top of Seal
	____	22.90'	Top of Sand Pack
	____	24.00'	Top of Screen
	____	57.00'	Bottom of Screen
	____	59.00'	Bottom of Well
	____	59.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AA2

Starting Date: 5/12/23
Completion Date: 5/12/23
Casing Elevation: 446.09
Ground Elevation: 443.53 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792019.067 Lat: 38.84176558
E: (Y): 2322086.797 Long: -90.07712490 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AA1 for lithology Refer to construction log of X-AA2 for well build
59.1									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Well #: X-AA2 ~~ST-AA3~~

Site Name: FORMER ROXANA PUBLIC WORKS YARD

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___

Borehole #: X-AA2

X: 2322086.797, Y: 792019.067

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

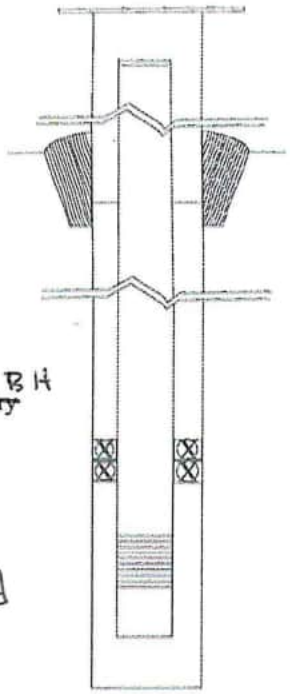
Logged By: Brett Howell Date Started: 5/12/23 Date Finished: 5/12/23

Report Form Completed By: Brett Howell Date: 5/12/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+1.90	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	20.90'	Top of Seal
	22.90'	Top of Sand Pack
	24.00'	Top of Screen
	57.00'	Bottom of Screen
	59.10'	Bottom of Well
	59.10'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~~~20~~ min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
.creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	56'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AB1

Starting Date: 6/14/23
Completion Date: 6/14/23
Casing Elevation: 446.37
Ground Elevation: 443.95 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791979.987 Lat: 38.84165821
E: (Y): 2322109.445 Long: -90.07704552 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of T-AB2 for lithology Refer to construction log of X-AB1 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AB1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-AB1

X: 2322109.445, Y: 791979.987

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

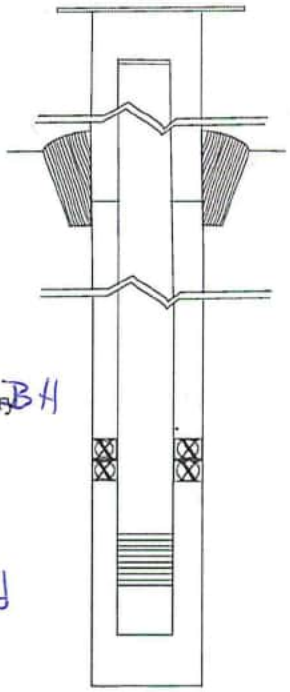
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/14/23 Date Finished: 6/14/23

Report Form Completed By: Brett Howell Date: 6/14/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	24
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AB4

Starting Date: 4/21/23
Completion Date: 4/21/23
Casing Elevation: 444.34
Ground Elevation: 441.49 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792017.981 Lat: 38.84176274
E: (Y): 2322034.754 Long: -90.07730763 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AA3 for lithology Refer to construction log of X-AB4 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AB4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AB4

X: 2322034.754, Y: 792017.981

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

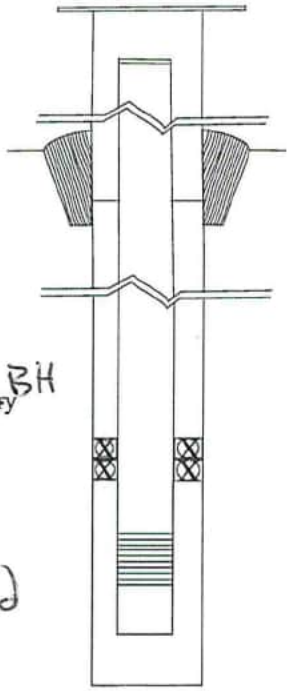
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/21/23 Date Finished: 4/21/23

Report Form Completed By: Brett Howell Date: 4/21/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		20.80'	Top of Seal
		22.40'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
~~ser~~ Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
~~c~~reen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	36'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AC3

Starting Date: 4/27/23
Completion Date: 4/27/23
Casing Elevation: 444.89
Ground Elevation: 442.30 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791973.203 Lat: 38.84163972
E: (Y): 2322061.057 Long: -90.07721543 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AD3 for lithology Refer to construction log of X-AC3 for well build
59.1									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-ACJ

State Plane Coordinate: X _____ Y _____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-ACB

X: 2322061.057, Y: 791973.203

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: M. Miller

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

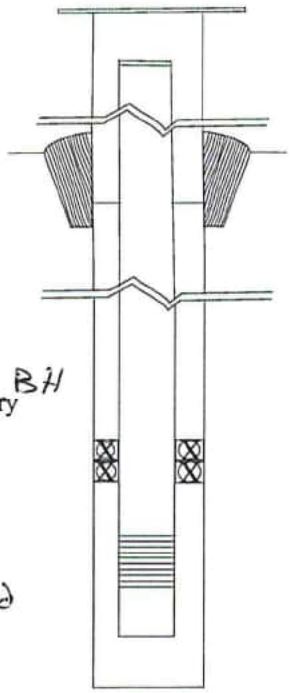
Logged By: B. Howell Date Started: 4/27/23 Date Finished: 4/27/23

Report Form Completed By: M. Miller Date: 4/27/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	20.8	Top of Seal
	22.8	Top of Sand Pack
	24.1	Top of Screen
	57.1	Bottom of Screen
	59.1	Bottom of Well
	59.1	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~40 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	+2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AC5

Starting Date: 2/22/23
Completion Date: 2/22/23
Casing Elevation: 440.09
Ground Elevation: 437.72 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792002.991 Lat: 38.84172164
E: (Y): 2322010.591 Long: -90.07739251 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AD6 for lithology Refer to construction log of X-AC5 for well build
59.2									

Completion Depth: 59.2 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Public Works Yard Well #: X-AC5

ate o ' " o ' " Borehole #: X-AC5

. lane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___

X: 2322010.591, Y: 792002.991

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/21/23 Date Finished: 2/22/23

Report Form Completed By: Brett Howell Date: 2/22/23

ANNULAR SPACE DETAILS

Type of Surface Seal: Portland Cement

. ype of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND BH
Global Quartz Sand #8 (Choose One)

Installation Method: Tremie

Setting Time: ~45 min

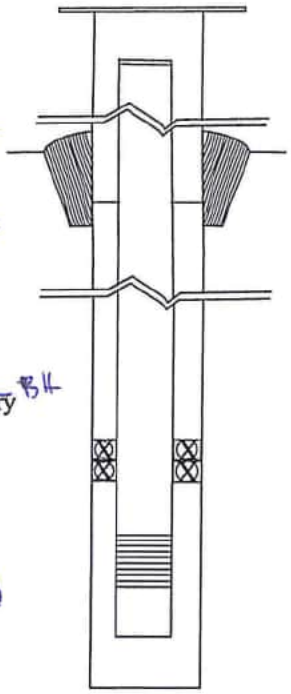
Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#8~~ #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: ____



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
Top of Protective Casing	____	N/A	
Top of Riser Pipe	____	+2.0'	
Ground Surface	____	0.0'	
Top of Annular Sealant	____	0.0'	
Static Water Level (After Completion)	____	NM	
Top of Seal	____	20.6'	
Top of Sand Pack	____	23.0'	
Top of Screen	____	24.2'	
Bottom of Screen	____	BH 57.2'	
Bottom of Well	____	59.2'	
Bottom of Borehole	____	59.2'	

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	20'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AD2

Starting Date: 5/23/23
Completion Date: 5/23/23
Casing Elevation: 446.69
Ground Elevation: 443.69 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791931.453 Lat: 38.84152503
E: (Y): 2322079.096 Long: -90.07715224 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									For top 30' refer to boring log PD-5
5									
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.6 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
X-AD2

Starting Date: 5/23/23
Completion Date: 5/23/23
Casing Elevation: 446.69
Ground Elevation: 443.69 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791931.453 Lat: 38.84152503
E: (Y): 2322079.096 Long: -90.07715224 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
30									SAME: For top 30' refer to boring log PD-5
		50		0.0			SM	Medium dense, wet, brown (10 YR - 5/3), very fine to fine grained silty SAND (SM) ▽	
				0.0					
				0.0					
35				0.0				Loose, wet, brown (10 YR - 5/3), fine to medium grained sand (SP) with silt	
				0.0					
		10		0.0			SP	Becomes light brownish gray (10 YR - 6/2) sand with trace silt	
40									
45								Becomes olive gray (5Y - 4/2)	
		100		350.0			SW	Loose, wet, grayish brown (2.5 Y - 5/2), fine to coarse grained SAND (SW) with trace silt	Sample XAD2-49-052323 @0920 Sample XAD2-49-052323-DUP

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.6 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM
USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AD2

Starting Date: 5/23/23
Completion Date: 5/23/23
Casing Elevation: 446.69
Ground Elevation: 443.69 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791931.453 Lat: 38.84152503
E: (Y): 2322079.096 Long: -90.07715224 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		15000 15000 15000 15000 15000 15000 15000 15000 15000			SW	SAME: Loose, wet, grayish brown (2.5 Y - 5/2), fine to coarse grained SAND (SW) with trace silt Becomes gray (10 YR - 5/1)	Sample XAD2-58-052323 @0925
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33.6 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AD2

State Plane Coordinate: X____ Y____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AD2

X: 2322079.096, Y: 791931.453

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

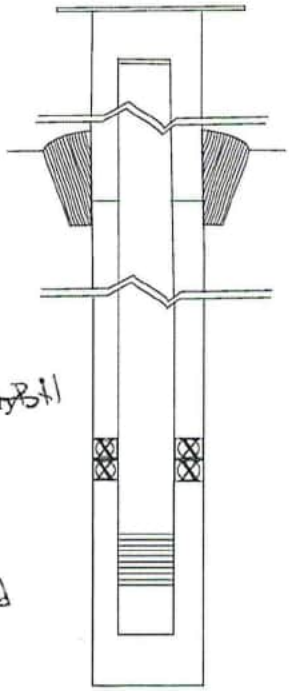
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/22/23 Date Finished: 5/23/23

Report Form Completed By: Brett Howell Date: 5/23/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	20.80'	Top of Seal
	22.90'	Top of Sand Pack
	24.00'	Top of Screen
	57.00'	Bottom of Screen
	59.00'	Bottom of Well
	59.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AD5

Starting Date: 2/24/23
Completion Date: 2/24/23
Casing Elevation: 437.63
Ground Elevation: 435.18 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791971.794 Lat: 38.84163599
E: (Y): 2322008.355 Long: -90.07740047 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of PD-01 for lithology Refer to construction log of X-AD5 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: X-AD5

State ___ ° ___ ' ___ " ___ ° ___ ' ___ " Borehole #: X-AD5

Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___

X: 2322008.355, Y: 791971.794

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

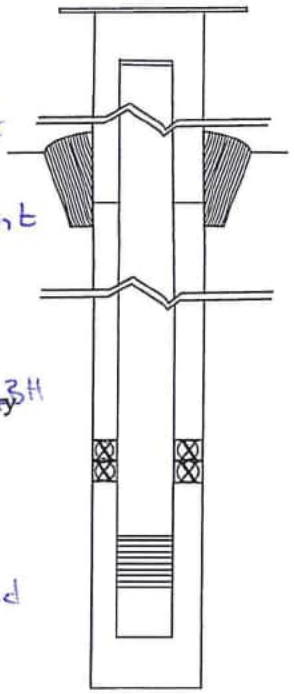
Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/24/23 Date Finished: 2/24/23

Report Form Completed By: Brett Howell Date: 2/24/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.0'	Top of Riser Pipe
	____	0.0'	Ground Surface
	____	0.0'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	21.0'	Top of Seal
	____	23.0'	Top of Sand Pack
	____	24.0'	Top of Screen
	____	57.0'	Bottom of Screen
	____	59.0'	Bottom of Well
	____	59.0'	Bottom of Borehole



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~30

Type of ~~Bentonite Seal - Granular, Pellet, Slurry~~ SAND SEAL 3H Global Quartz Sand #8 (Choose One)

Installation Method: Tremie

Setting Time: ~45 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	(SS304) SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	(SS304) SS316, PTFE, PVC, or Other
Screen	(SS304) SS316, PTFE, PVC, or Other

8"

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AE4

Starting Date: 3/2/23
Completion Date: 3/2/23
Casing Elevation: 437.77
Ground Elevation: 435.32 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791928.236 Lat: 38.84151631
E: (Y): 2322035.357 Long: -90.07730582 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log PD-05
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\G NT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AE4

Starting Date: 3/2/23
Completion Date: 3/2/23
Casing Elevation: 437.77
Ground Elevation: 435.32 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791928.236 Lat: 38.84151631
E: (Y): 2322035.357 Long: -90.07730582 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-05
30		50		11.6				Loose, wet, reddish brown (2.5 YR - 5/4), fine to medium grained SAND (SP) with trace silt ▽	
				2.4					
35				24.7				Becomes medium to coarse grained and reddish brown (5 YR - 5/3)	
				38.9					
40				6300			SP	Becomes brown (7.5 YR - 5/3)	Strong hydrocarbon odor Collected sudan (Positive) Sample XAE4-40-030223 @1115 Sample XAE4-40-030223-DUP
				15000					
				13000					
				12500					
				15000					
45				15000					
				15000					
				15000				Becomes dark gray (7.5 YR - 4/1)	
				15000					Strong hydrocarbon odor Collected sudan (Positive) Sample XAE4-48-030223 @1120

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AE4

Starting Date: 3/2/23
Completion Date: 3/2/23
Casing Elevation: 437.77
Ground Elevation: 435.32 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791928.236 Lat: 38.84151631
E: (Y): 2322035.357 Long: -90.07730582 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				962.0				SAME: Loose, wet, dark gray (7.5 YR - 4/1), medium to coarse grained grained SAND (SP) with trace silt	
				1020					Strong hydrocarbon odor
				1200					Sample XAE4-52-030223 @1150
				862.0			SP		
55								Becomes gray (5 YR - 6/1)	Strong hydrocarbon odor
				671.0				Becomes dark gray (7.5 YR - 4/1)	
				600.0					
				483.0					
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AE4

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-AE4

X: 2322035.357, Y: 791928.236

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

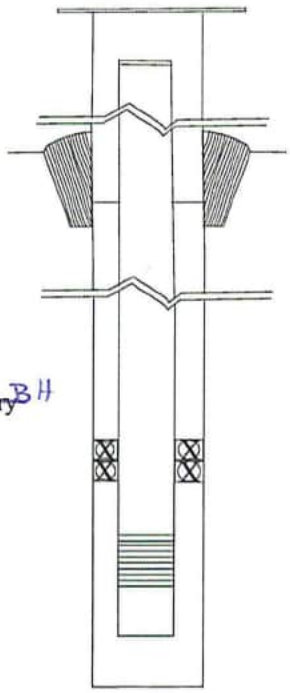
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/2/23 Date Finished: 3/2/23

Report Form Completed By: Brett Howell Date: 3/2/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: ~45 min

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.0'	Top of Riser Pipe
	____	0.0'	Ground Surface
	____	0.0'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	21.0'	Top of Seal
	____	23.0'	Top of Sand Pack
	____	24.1'	Top of Screen
	____	57.1'	Bottom of Screen
	____	59.1'	Bottom of Well
	____	59.1'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AF3

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 438.29
Ground Elevation: 435.75 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791880.655 Lat: 38.84138560
E: (Y): 2322061.372 Long: -90.07721464 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AF3 for lithology Refer to construction log of X-AF3 for well build
59.1									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AF3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AF3

X: 2322061.372, Y: 791880.655

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

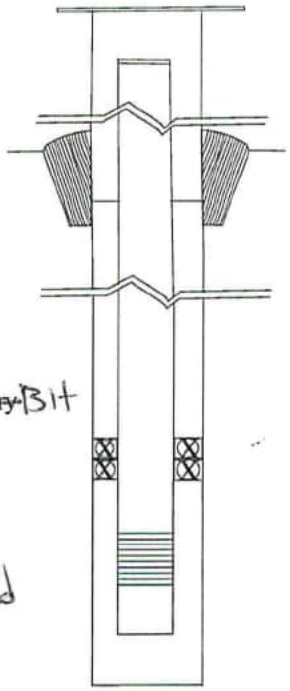
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/15/23 Date Finished: 5/16/23

Report Form Completed By: Brett Howell Date: 5/16/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.80'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.20'	Top of Seal
		23.00'	Top of Sand Pack
		~~24.20'~~ 33.20	Top of Screen
		57.20'	Bottom of Screen
		59.20'	Bottom of Well
		59.20'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ____

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ____

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ Bit
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AF4

Starting Date: 3/16/23
Completion Date: 3/16/23
Casing Elevation: 437.55
Ground Elevation: 434.90 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791907.223 Lat: 38.84145866
E: (Y): 2322019.517 Long: -90.07736151 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of PD-05 for lithology Refer to construction log of X-AF4 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Well #: ~~X-AE4~~ BH X-AF4

Site Name: FORMER ROXANA PUBLIC WORKS YARD

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___

Borehole #: ~~X-AE4~~ BH X-AF4

X: 2322019.517, Y: 791907.223

Surveyed by: Kowelman Engineering Inc.

IL Registration #: N/A

Drilling Contractor: HD SONIC

Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM

Geologist: Brett Howell

Drilling Method: SONIC

Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell

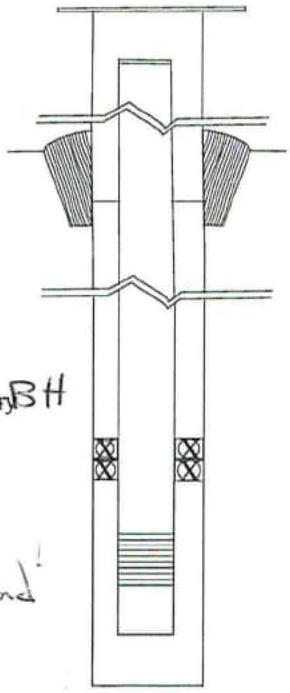
Date Started: 3/15/23 Date Finished: 3/16/23

Report Form Completed By: Brett Howell

Date: 3/16/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	~~24~~ 33'
Total Length of Casing (feet)	~~35~~ 36'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AF6

Starting Date: 2/27/23
Completion Date: 2/27/23
Casing Elevation: 437.29
Ground Elevation: 434.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791927.376 Lat: 38.84151407
E: (Y): 2321991.347 Long: -90.07746034 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log MW-08
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: S. Beadle, M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
X-AF6

Starting Date: 2/27/23
Completion Date: 2/27/23
Casing Elevation: 437.29
Ground Elevation: 434.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791927.376 Lat: 38.84151407
E: (Y): 2321991.347 Long: -90.07746034 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
30									SAME: For top 30' refer to boring log MW-08
									Sample from 28'-38' washed out by sonic over drill prior to collection
35								▽	
40				>15000				Medium dense, wet, brown (7.5 YR - 5/2), poorly sorted SAND (SW) with trace fines	Strong hydrocarbon odor Sample XAF6-40-022723 Sample XAF6-40-022723-DUP
		80		>15000			SW		Collected sudan (Positive)
45				2630					Sample XAF6-47-022723 @1110
		87							Strong hydrocarbon odor

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: S. Beadle, M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AF6

Starting Date: 2/27/23
Completion Date: 2/27/23
Casing Elevation: 437.29
Ground Elevation: 434.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791927.376 Lat: 38.84151407
E: (Y): 2321991.347 Long: -90.07746034 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		87		875.0 1410 315.0			SW	SAME: Medium dense, wet, brown (7.5 YR - 5/2), poorly sorted SAND (SW) with trace fines	Sample XAF6-58-022723 @1120
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic 3561
Logged by: S. Beadle, M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 33 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: X-AF6

ate o ' " o ' "

ıane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-AF6

X: 2321991.347, Y: 791927.376

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

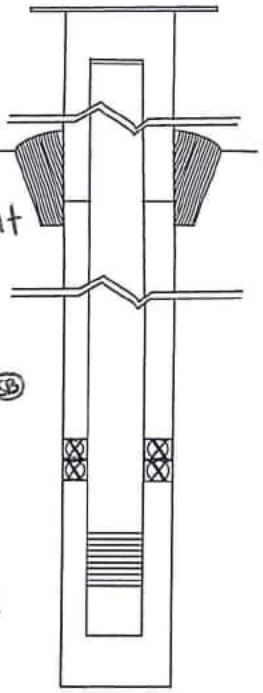
Logged By: Sam Beadle, Mike Miller Date Started: 2/27/23 Date Finished: 2/27/23

Report Form Completed By: Sam Beadle Date: 2/27/23

ANNULAR SPACE DETAILS

Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+2.0'	Top of Riser Pipe
____	0.0'	Ground Surface
____	0.0'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	21'	Top of Seal
____	23'	Top of Sand Pack
____	24'	Top of Screen
____	57'	Bottom of Screen
____	59'	Bottom of Well
____	59'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: Portland Cement

ype of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: ~20 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ (SB) (Choose One)

Global Quartz sand #8

Installation Method: Tremie

Setting Time: ~1 hour

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: Tremie

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

~~Protective Casing~~	~~SS304, SS316, PTFE, PVC, or Other~~ (BH)
Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	21
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AG5

Starting Date: 3/18/23
Completion Date: 3/18/23
Casing Elevation: 437.33
Ground Elevation: 434.83 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791883.077 Lat: 38.84139242
E: (Y): 2321996.412 Long: -90.07744271 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log PD-08
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
X-AG5

Starting Date: 3/18/23
Completion Date: 3/18/23
Casing Elevation: 437.33
Ground Elevation: 434.83 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791883.077 Lat: 38.84139242
E: (Y): 2321996.412 Long: -90.07744271 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log PD-08
30				0.1 0.4 0.5 0.1			SM	Loose, wet, yellowish red (5 YR - 5/6), very fine to fine grained silty SAND (SM) ▽	
35				0.1 0.2 3.1 6.8				Black band for 6"	
40				310.0 15000 15000			SP	Loose, wet, yellowish red (5 YR - 5/6), fine to medium grained SAND (SP) with trace silt Becomes dark brown (7.5 YR - 3/2)	Strong hydrocarbon odor Sample XAG5-40-031823 @1455 Sample XAG5-40-031823-MS Sample XAG5-40-031823-MSD
45				15000 15000 2371 3570 7150 15000 15000			SW	Becomes gray (7.5 YR - 5/1), fine to coarse grained SAND (SW) Becomes gray (7.5 YR - 6/1)	Sample XAG5-49-031823 @1500

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM
USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AG5

Starting Date: 3/18/23
Completion Date: 3/18/23
Casing Elevation: 437.33
Ground Elevation: 434.83 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791883.077 Lat: 38.84139242
E: (Y): 2321996.412 Long: -90.07744271 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				1017 827.0 938.0 800.0 632.0 951.0 61.4 153.8 97.9 52.0			SW	SAME: Loose, wet, gray (7.5 YR - 6/1), fine to coarse grained SAND (SW) with trace silt Becomes very dark gray (7.5 YR - 3/1) Becomes gray (7.5 YR - 5/1)	Sample XAG5-56-031823 @1520
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 32.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AG5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AG5

X: 2321996.412, Y: 791883.077

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/18/23 Date Finished: 3/20/23

Report Form Completed By: Brett Howell Date: 3/20/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ____

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global quartz sand #0

Installation Method: TREMIE PIPE

Setting Time: ____

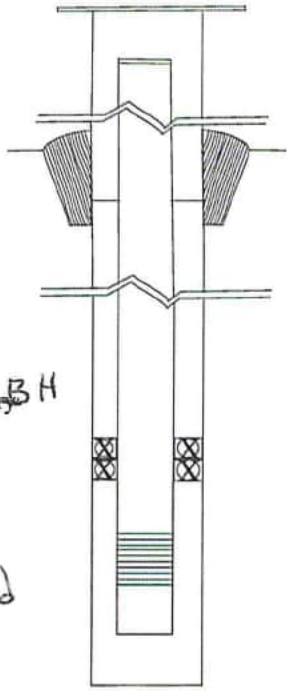
Type of Sand Pack: Global quartz sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.0'	Top of Riser Pipe
		0.0'	Ground Surface
		0.0'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		20.50'	Top of Seal
		22.50'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	36
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AG7

Starting Date: 4/20/23
Completion Date: 4/20/23
Casing Elevation: 436.37
Ground Elevation: 434.57 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791928.100 Lat: 38.84151612
E: (Y): 2321969.756 Long: -90.07753614 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AG7 for lithology Refer to construction log of X-AG7 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: T. Rose
Drilling Method: Sonic
Drill Rig Type: Geoprobe 8040
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AG7

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AG7

X: 2321969.756, Y: 791928.1

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trevon Rose

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/19/23 Date Finished: 4/20/23

Report Form Completed By: Brett Howell Date: 4/20/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 0° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~45 min

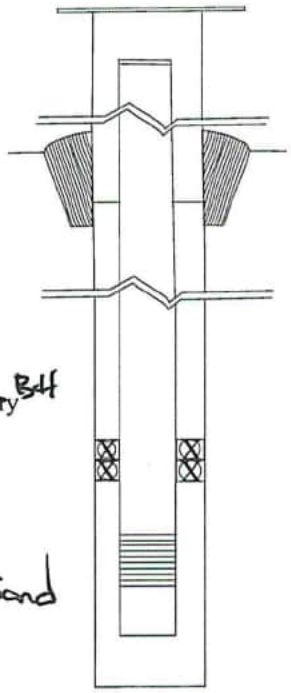
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	NA	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	20.50'	Top of Seal
	22.80'	Top of Sand Pack
	24.00'	Top of Screen
	57.06'	Bottom of Screen
	59.00'	Bottom of Well
	59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	7'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AH5

Starting Date: 3/22/23
Completion Date: 3/22/23
Casing Elevation: 437.45
Ground Elevation: 435.20 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791849.117 Lat: 38.84129911
E: (Y): 2322021.302 Long: -90.07735544 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of PD-09 for lithology Refer to construction log of X-AH5 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AH5

State Plane Coordinate: X _____ Y _____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AH5

X: 2322021.302, Y: 791849.117

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/22/23 Date Finished: 3/22/23

Report Form Completed By: Brett Howell Date: 3/22/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

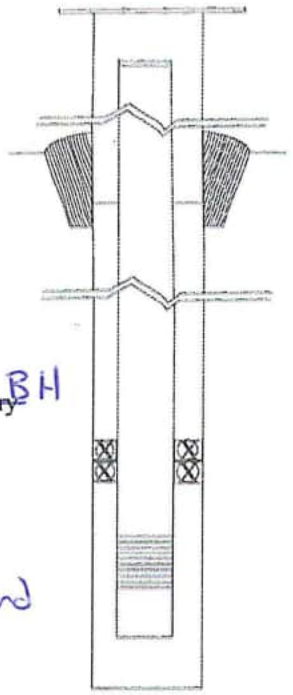
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		19.80'	Top of Seal
		22.50'	Top of Sand Pack
		24.00'	Top of Screen
		59.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AH7

Starting Date: 2/25/23
Completion Date: 2/25/23
Casing Elevation: 436.74
Ground Elevation: 434.20 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791882.826 Lat: 38.84139184
E: (Y): 2321956.329 Long: -90.07758344 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AI7 for lithology Refer to construction log of X-AH7 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: X-AH7

State ° ' " ° ' "

Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-AH7

X: 2321956.329, Y: 791882.826

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

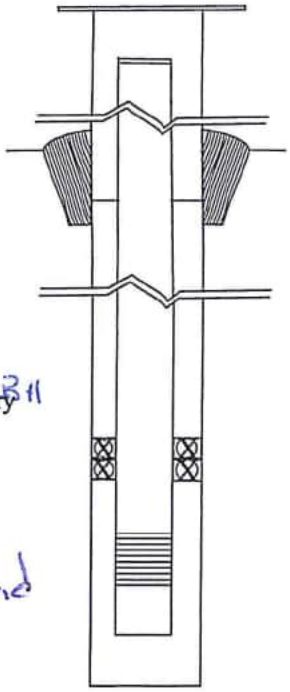
Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/25/23 Date Finished: 2/25/23

Report Form Completed By: Brett Howell Date: 2/25/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.0'	Top of Riser Pipe
	____	0.0'	Ground Surface
	____	0.0'	Top of Annular Sealant
	____	NM	Static Water Level (After Completion)
	____	21.0'	Top of Seal
	____	23.0'	Top of Sand Pack
	____	24.0'	Top of Screen
	____	57.0'	Bottom of Screen
	____	59.0'	Bottom of Well
	____	59.0'	Bottom of Borehole



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland cement

Installation Method: Tremie

Setting Time: ~20 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ Sand Slurry (Choose One)

Global Quartz Sand #8

Installation Method: Tremie Pipe

Setting Time: ~45 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: Tremie Pipe

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Pipe Above W.T.	~~SS304~~ SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AI6

Starting Date: 4/24/23
Completion Date: 4/24/23
Casing Elevation: 438.07
Ground Elevation: 434.98 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791847.258 Lat: 38.84129412
E: (Y): 2321978.967 Long: -90.07750408 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-AJ6 for lithology Refer to construction log of X-AI6 for well build
59.1									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AI6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-AI6

X: 2321978.967, Y: 791847.258

Surveyed by: Kowelman Engineering Inc.

IL Registration #: ~~Alex~~ BAA N/A

Drilling Contractor: HD SONIC

Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM

Geologist: Brett Howell

Drilling Method: SONIC

Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell

Date Started: 4/22/23 Date Finished: 4/24/23

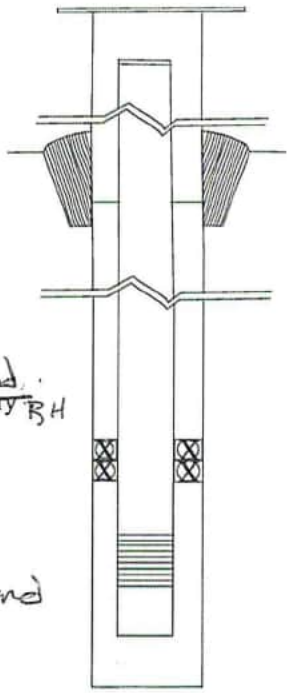
Report Form Completed By: Brett Howell

Date: 4/24/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		~~+1.90~~ BAA +1.90	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.10	Top of Seal
		23.10	Top of Sand Pack
		24.10	Top of Screen
		57.10	Bottom of Screen
		59.10	Bottom of Well
		59.10	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ BAA Seal - - ~~Granular, Pellet, Slurry~~ Sand BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BU
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AJ8

Starting Date: 4/21/23
Completion Date: 4/22/23
Casing Elevation: 436.98
Ground Elevation: 434.66 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791853.617 Lat: 38.84131162
E: (Y): 2321962.435 Long: -90.07756210 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log GP-16
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

- Geoprobe
- Air Knife
- Hand Auger
- Sonic
- Splitspoon Sampler
- Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
X-AJ8

Starting Date: 4/21/23
Completion Date: 4/22/23
Casing Elevation: 436.98
Ground Elevation: 434.66 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.617 Lat: 38.84131162
E: (Y): 2321962.435 Long: -90.07756210 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				6.5					SAME: For top 30' refer to boring log GP-16
30				414.0				Loose, wet, reddish brown (5 YR - 5/4), very fine to medium grained SAND (SW) with trace silt	
				396.0					
35		50		1983				▽ Becomes olive brown (2.5 Y - 4/3)	
				>5000				Becomes fine to coarse grained	Strong hydrocarbon odor Sample XAJ8-38-042223 @0905
40				>5000			SW		Strong hydrocarbon odor
				>5000				Becomes fine to medium grained	
				>5000					
				>5000					
45		92		>5000				Becomes grayish brown (2.5 Y - 5/2)	
				3023					Sample XAJ8-46-042223 @0922 Sample XAJ8-46-042223-DUP
				1352					
				360.3					
				660.9					

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-AJ8

Starting Date: 4/21/23
Completion Date: 4/22/23
Casing Elevation: 436.98
Ground Elevation: 434.66 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.617 Lat: 38.84131162
E: (Y): 2321962.435 Long: -90.07756210 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		87.5		286.0 519.0 1526 1049 722.0 690.0 1120 608.0 208.0 213.0			SW	SAME: Loose, wet, grayish brown (2.5 Y - 5/2), fine to medium grained SAND (SW) with trace silt Becomes dark gray (2.5 Y - 4/1)	Strong hydrocarbon odor Sample XAJ8-57-042223 @0952
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-AJ8

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-AJ8

X: 2321962.435, Y: 791853.617

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

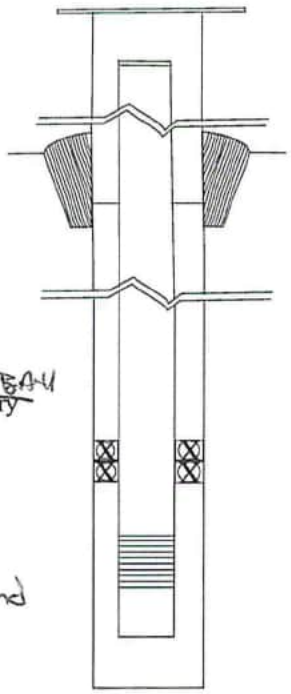
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/21/23 Date Finished: 4/22/23

Report Form Completed By: Brett Howell Date: 4/22/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - ~~Granular, Pellet, Slurry~~ SAND BAH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BAH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	36'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BB2

Starting Date: 5/18/23
Completion Date: 5/18/23
Casing Elevation: 439.26
Ground Elevation: 436.70 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.814 Lat: 38.84131142
E: (Y): 2322239.119 Long: -90.07659068 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log PD-11/SVE-24/GP-19
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42.65 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

- Geoprobe
- Air Knife
- Hand Auger
- Sonic
- Splitspoon Sampler
- Hollow Stem Auger- Soil samples not collected

LOG OF BORING
X-BB2

Starting Date: 5/18/23
Completion Date: 5/18/23
Casing Elevation: 439.26
Ground Elevation: 436.70 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.814 Lat: 38.84131142
E: (Y): 2322239.119 Long: -90.07659068 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
								Loose, wet, very dark gray (2.5 Y - 3/1), very fine to fine grained SAND (SP) with trace silt	SAME: For top 30' refer to boring log PD-11/SVE-24/GP-19
				501.0					
30				523.0					
				399.0				Becomes dark gray (2.5 Y - 4/1)	
				545.0					
		90		868.2					
				1228					
35				765.0					
				3258					
				15000			SP	Becomes fine to medium grained	
								Becomes very dark grayish brown (2.5 Y - 3/2)	Strong hydrocarbon odor Indigo blue test slightly positive Sample XBB2-38-051823 @1435
				15000					
40				15000					
				15000					
				15000				Becomes dark brown (7.5 YR - 3/2) very fine grained SAND (SP) with silt	
				15000				Becomes gray (10 YR - 5/1) ▽	
		100		15000					
				15000				Becomes grayish brown (10 YR - 5/2)	
45				15000				Becomes dark yellowish brown (10 YR - 3/4)	
				15000				Becomes grayish brown (10 YR - 5/2)	
				15000					
				15000				Becomes dark gray (5 Y - 4/1), fine to medium grained SAND (SP) with trace silt	Sample XBB2-47-051823 @1505
				2154					

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42.65 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM
USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BB2

Starting Date: 5/18/23
Completion Date: 5/18/23
Casing Elevation: 439.26
Ground Elevation: 436.70 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.814 Lat: 38.84131142
E: (Y): 2322239.119 Long: -90.07659068 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55				62.1			SP	SAME: Loose, wet, dark gray (5 Y - 4/1), fine to medium grained SAND (SP) with trace silt	
				81.5					
				31.6					
				9.4				Loose, wet, gray (5 Y - 5/1), fine to medium grained SAND (SP) with silt and some black streaking	
				34.1					
				88.1					
				3.2					
				13.3			SM	Loose, wet, very dark gray (5 Y - 3/1), very fine to fine grained silty SAND (SM)	
				49.0					
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42.65 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BB2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: X-BB2

X: 2322239.119, Y: 791853.814

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - ~~Mike Mellor~~ Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/18/23 Date Finished: 5/19/23

Report Form Completed By: ~~Brett~~ Howell Date: 5/19/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

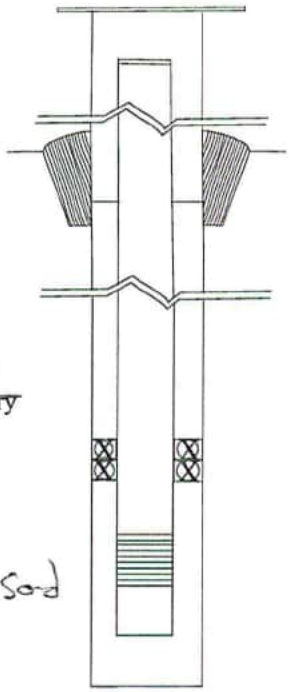
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	21.20'	Top of Seal
	23.00'	Top of Sand Pack
	24.00'	Top of Screen
	57.00'	Bottom of Screen
	59.00'	Bottom of Well
	59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
~~ser~~ Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
~~.~~creen	SS304, SS316, PTFE, PVC, or Other

SS BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	28
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BC1

Starting Date: 5/20/23
Completion Date: 5/20/23
Casing Elevation: 438.44
Ground Elevation: 436.34 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791870.033 Lat: 38.84135604
E: (Y): 2322206.585 Long: -90.07670485 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BC1 for lithology Refer to construction log of X-BC1 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. McHar
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BC1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BC1

X: 2322206.585, Y: 791870.033

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/19/23 Date Finished: 5/20/23

Report Form Completed By: Brett Howell Date: 5/20/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 90° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Snd #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

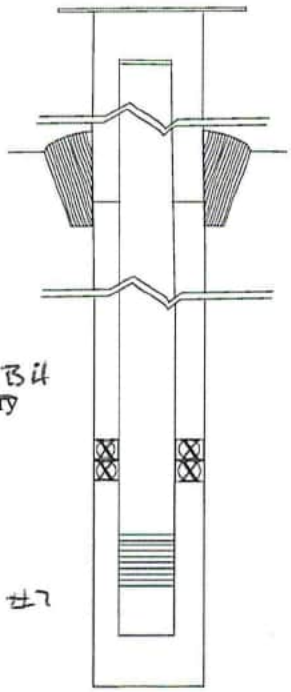
Type of Sand Pack: Global Quartz Snd #7

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	21.00'	Top of Seal
	23.00'	Top of Sand Pack
	24.00'	Top of Screen
	59.00'	Bottom of Screen
	59.00'	Bottom of Well
	59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
ɔcreen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	0
Screen Length (1st slot to last slot) (feet)	30
Total Length of Casing (feet)	25
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BC2

Starting Date: 5/23/23
Completion Date: 5/23/23
Casing Elevation: 437.68
Ground Elevation: 436.22 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791855.407 Lat: 38.84131581
E: (Y): 2322234.060 Long: -90.07660844 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of X-BB2 for lithology Refer to construction log of X-BC2 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BC2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BC2

X: 2322234.06, Y: 791855.407

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Mettar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/22/23 Date Finished: 5/23/23

Report Form Completed By: Brett Howell Date: 5/23/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 20° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

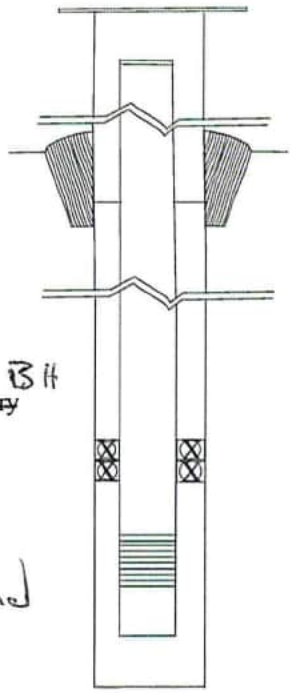
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	21.00'	Top of Seal
	23.00'	Top of Sand Pack
	24.00'	Top of Screen
	57.00'	Bottom of Screen
	59.00'	Bottom of Well
	59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
ɔcreen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	36
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BC3

Starting Date: 6/20/23
Completion Date: 6/21/23
Casing Elevation: 445.99
Ground Elevation: 443.25 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791866.174 Lat: 38.84134524
E: (Y): 2322281.375 Long: -90.07644228 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log GP-19
10									
15									
20									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BC3

Starting Date: 6/20/23
Completion Date: 6/21/23
Casing Elevation: 445.99
Ground Elevation: 443.25 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791866.174 Lat: 38.84134524
E: (Y): 2322281.375 Long: -90.07644228 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log GP-19
30				186.0			ML	Soft, loose, wet, dark gray (10 YR - 4/1), very fine grained sandy SILT (ML)	
				29.1					
				12.2			CL	Becomes medium stiff, medium plasticity CLAY (CL) with sand	
				120.4			ML	Soft, loose, wet, dark gray (10 YR - 4/1), very fine grained sandy SILT (ML) for 6"	
		100		208.0			SM	Becomes grayish brown (10 YR - 5/2), fine to medium grained silty SAND (SM) silty sand, f-m grain,	
35				296.0				Loose, wet, grayish brown (10 YR - 5/2), fine to medium grained SAND (SW) with trace silt	
				263.0			SW		
				389.0					
				1404					
							ML	Medium stiff, wet, very dark gray (10 YR - 3/1) SILT (ML) with sand	
				812.0			SM	Loose, wet, grayish brown (10 YR - 5/2), very fine to fine grained silty SAND (SM)	
40				1185				Loose, wet, dark gray (10 YR - 4/1), fine to medium grained SAND (SW) with silt	Sample XBC3-38-062123 @0940 Sample XBC3-38-062123-MS Sample XBC3-38-062123-MSD
				1291				Becomes very dark gray (10 YR - 3/1) sand with trace silt	
				1492				▽	
		100		3340			SW		
				>15000					
45				>15000					
				>15000					
				>15000					Sample XBC3-47-062123 @0950
								Loose, wet, gray (10 YR - 5/1), very fine to fine grained SAND (SP) with silt	
		100		>15000					

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BC3

Starting Date: 6/20/23
Completion Date: 6/21/23
Casing Elevation: 445.99
Ground Elevation: 443.25 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791866.174 Lat: 38.84134524
E: (Y): 2322281.375 Long: -90.07644228 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				5000			SP	SAME: Loose, wet, gray (10 YR - 5/1), very fine to fine grained SAND (SP) with silt	
				>15000					
				3000					
				1300					
55		100		2200			SW	Becomes dark gray (10 YR - 4/1), fine to medium grained SAND (SW) with trace silt	
				1084				Becomes very dark gray (10 YR - 3/1)	
				1600					
				2883					Sample XBC3-58-062123 @1010
60								Bottom of boring at 59' bgs	
65									
70									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 42.5 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BC3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: X-BC3

X: 2322281.375, Y: 791866.174

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duran

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/20/23 Date Finished: 6/21/23

Report Form Completed By: Brett Howell Date: 6/21/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ Sand & Global Quartz Sand #8 (Choose One)

Installation Method: TREMIE PIPE

Setting Time: ~10 min

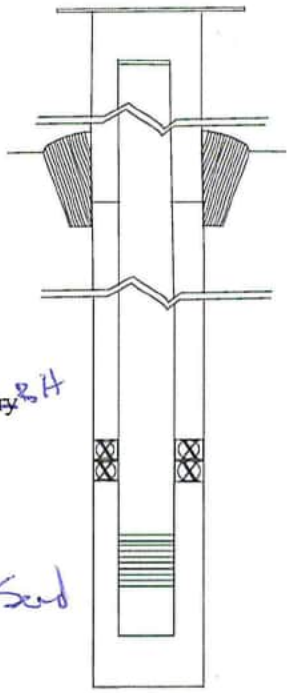
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.06'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		19.90'	Top of Seal
		22.80'	Top of Sand Pack
		24.00'	Top of Screen
		59.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ B/A
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BD1

Starting Date: 5/15/23
Completion Date: 5/15/23
Casing Elevation: 445.77
Ground Elevation: 443.66 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791922.702 Lat: 38.84150065
E: (Y): 2322210.052 Long: -90.07669249 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BC1 for lithology Refer to construction log of X-BD1 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BD1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: X-BD1

X: 2322210.052, Y: 791922.702

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/15/23 Date Finished: 5/15/23

Report Form Completed By: Brett Howell Date: 5/15/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 18° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~45 min

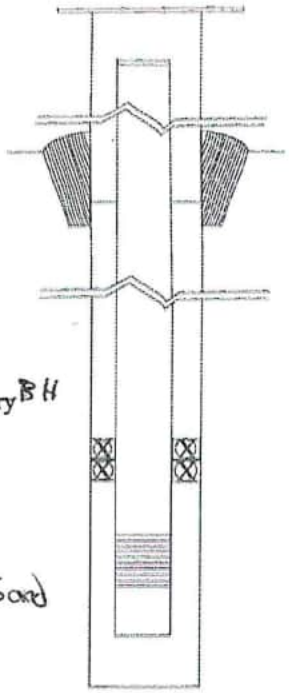
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.06'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BD2

Starting Date: 3/27/23
Completion Date: 3/27/23
Casing Elevation: 445.96
Ground Elevation: 443.68 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791913.434 Lat: 38.84147506
E: (Y): 2322263.322 Long: -90.07650550 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BD2 for lithology Refer to construction log of X-BD2 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BD2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-BD2

X: 2322263.322, Y: 791913.434

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/25/23 Date Finished: 3/27/23

Report Form Completed By: Brett Howell Date: 3/27/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - ~~Granular, Pellet, Slurry~~ SAND (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~45 min

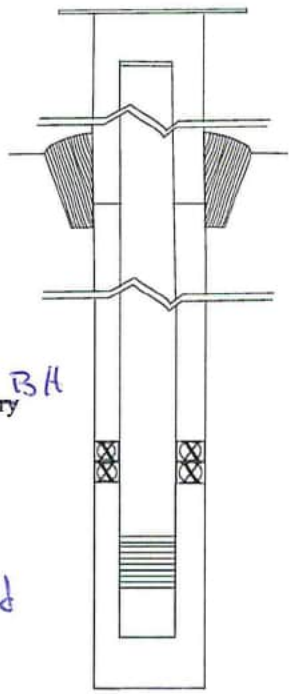
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		20.90'	Top of Seal
		22.90'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

LOG OF BORING

BA4 ~~SI-BD3~~ X-BD3

Starting Date: 6/22/23
Completion Date: 6/22/23
Casing Elevation: 446 36
Ground Elevation: 443 65 NAVD 88

Quadrangle
Sec: 34 00
T: 5N
R: 9W
UTM (or State Plane) Coord
N: (X): 791892 852 Lat: 38 84141850
E: (Y): 2322280 010 Long: -90 07644698 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									~~For top 30 feet, refer to boring log of~~ BA4 Refer to boring log of SI-BE4 for lithology. ~~Refer to boring log of SI-BD3 for BA4 well build.~~ ~~Refer to boring~~ BA4 Refer to construction log of X-BD3 for well build.
59.10									TD = 59.10' bgs

Completion Depth: 59.10' Ft bgs
Project No.: 60697537
Project Name: ROX PWY SEE
Drilling Contractor: HD SONIC
Driller Name: Alex Duncan
Drilling Method: SONIC
Drill Rig Type: JERSA SONIC
Logged by: Brett Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: N/A ft., After ____ hrs.
Water Depth: N/A ft., After ____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe Macro Sampler
Air Knife/Hand Auger Sampler
Air Rotary
3" Clear Acetate Liner
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BB3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BB3

X: 2322280.01, Y: 791892.852

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

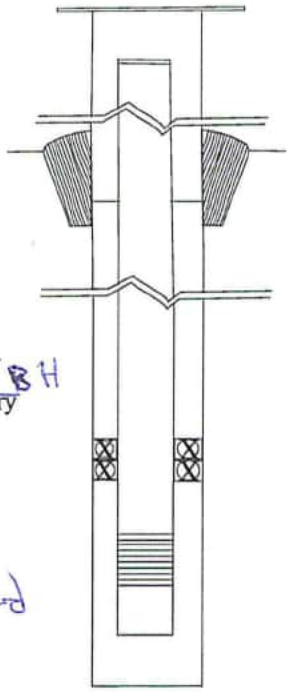
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/21/23 Date Finished: 6/22/23

Report Form Completed By: Brett Howell Date: 6/22/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular~~, Pellet, Slurry (Choose One) BH

Global Quartz Sand #6

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.90'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.10'	Top of Screen
		57.10'	Bottom of Screen
		59.10'	Bottom of Well
		59.10'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BM
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BE1

Starting Date: 5/17/23
Completion Date: 5/17/23
Casing Elevation: 446.30
Ground Elevation: 443.56 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791953.315 Lat: 38.84158470
E: (Y): 2322211.619 Long: -90.07668689 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BF1 for lithology Refer to construction log of X-BE1 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Well #: ~~SS-BE1~~ X-BE1 ~~BH~~

Site Name: FORMER ROXANA PUBLIC WORKS YARD

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____

X: 2322211.619, Y: 791953.315

Borehole #: ~~SS-BE1~~ ~~BH~~ X-BE1

Surveyed by: Kowelman Engineering Inc.

IL Registration #: N/A

Drilling Contractor: HD SONIC

Driller: HD SONIC - Mike Miller

Consulting Firm: AECOM

Geologist: Brett Howell

Drilling Method: SONIC

Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell

Date Started: 5/16/23 Date Finished: ~~5/16/23~~ 5/17/23

Report Form Completed By: Brett Howell

Date: ~~5/16/23~~ 5/17/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 18° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

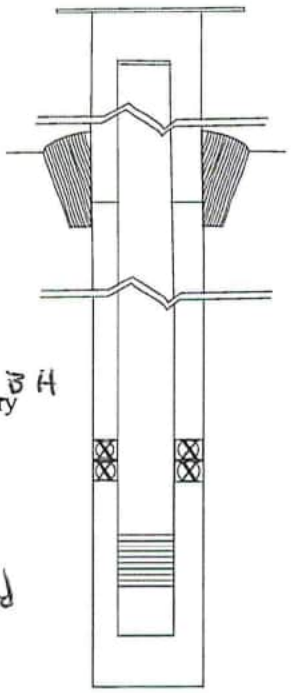
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	~~20~~ 21.00'	Top of Seal
	~~23~~ 23.00'	Top of Sand Pack
	~~24~~ 24.00'	Top of Screen
	57.00'	Bottom of Screen
	59.00'	Bottom of Well
	59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

BH

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	21
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	57'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BE2

Starting Date: 3/28/23
Completion Date: 3/28/23
Casing Elevation: 446.59
Ground Elevation: 443.88 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791938.168 Lat: 38.84154298
E: (Y): 2322259.301 Long: -90.07651953 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BE2 for lithology Refer to construction log of X-BE2 for well build
59.1									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BE2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BE2

X: 2322259.301, Y: 791938.168

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

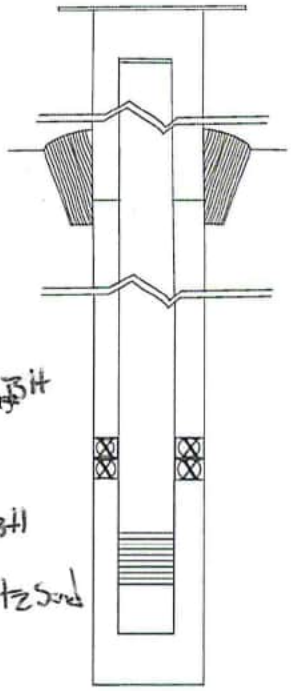
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/28/23 Date Finished: 3/28/23

Report Form Completed By: Brett Howell Date: 3/28/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) — SAND BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~~Global Quartz Sand~~ ~10 min BH

Type of Sand Pack: ~~#7~~ BH Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.90'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.10'	Top of Screen
		57.10'	Bottom of Screen
		59.10'	Bottom of Well
		59.10'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	20'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BE3

Starting Date: 6/26/26
Completion Date: 6/26/26
Casing Elevation: 446.23
Ground Elevation: 443.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791923.073 Lat: 38.84150148
E: (Y): 2322278.773 Long: -90.07645122 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BD2 for lithology Refer to construction log of X-BE3 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BE3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BE3

X: 2322278.773, Y: 791923.073

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

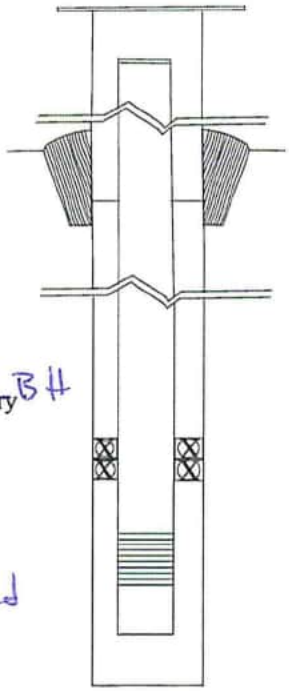
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/23/23 Date Finished: 6/26/23

Report Form Completed By: Brett Howell Date: 6/26/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH Global Quartz Sand #8 (Choose One)

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BF1

Starting Date: 5/18/23
Completion Date: 5/18/23
Casing Elevation: 446.16
Ground Elevation: 443.57 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791983.013 Lat: 38.84166625
E: (Y): 2322212.434 Long: -90.07668392 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BF1 for lithology Refer to construction log of X-BF1 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BF1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BF1

X: 2322212.434, Y: 791983.013

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/17/23 Date Finished: 5/18/23

Report Form Completed By: Brett Howell Date: 5/18/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 18° angle

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of ~~Bentonite~~ Seal - - Granular, Pellet, ~~Slurry~~ (Choose One) BH

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: Global Quartz Sand

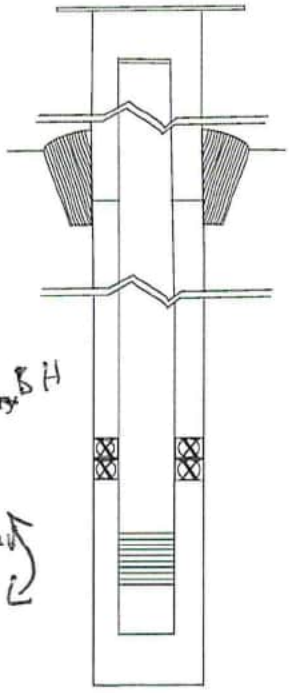
Type of Sand Pack: ~20 min

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00	Top of Seal
		23.00	Top of Sand Pack
		24.00	Top of Screen
		57.00	Bottom of Screen
		59.00	Bottom of Well
		59.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	3'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	24'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BF2

Starting Date: 3/29/23
Completion Date: 3/29/23
Casing Elevation: 446.63
Ground Elevation: 444.05 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791967.978 Lat: 38.84162483
E: (Y): 2322259.449 Long: -90.07651891 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BF3 for lithology Refer to construction log of X-BF2 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BF2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BF2

X: 2322259.449, Y: 791967.978

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

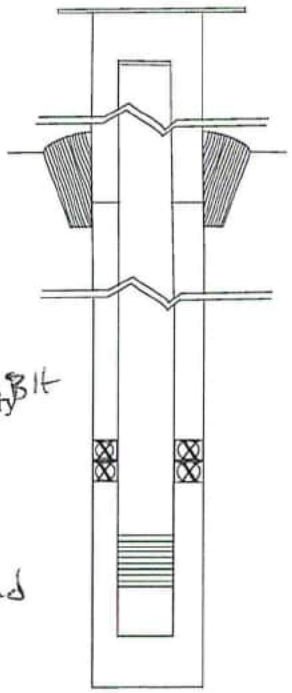
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/29/23 Date Finished: 3/29/23

Report Form Completed By: Brett Howell Date: 3/29/23

ANNULAR SPACE DETAILS



Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~10 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~15 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		19.80	Top of Seal
		22.80	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BF3

Starting Date: 6/27/23
Completion Date: 6/27/23
Casing Elevation: 446.26
Ground Elevation: 443.66 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791952.688 Lat: 38.84158280
E: (Y): 2322278.425 Long: -90.07645233 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BE2 for lithology Refer to construction log of X-BF3 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BF3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BF3

X: 2322278.425, Y: 791952.688

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/27/23 Date Finished: 6/27/23

Report Form Completed By: Brett Howell Date: 6/27/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Sand Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10 min

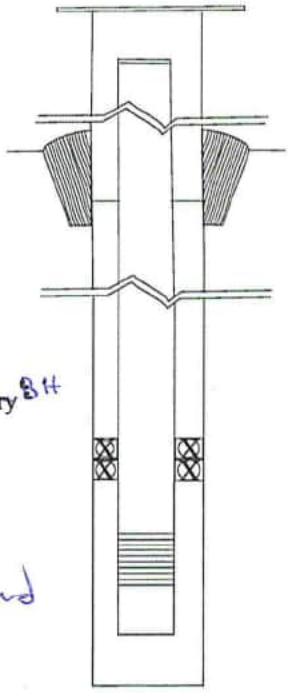
Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	1
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	26
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BG1

Starting Date: 5/11/23
Completion Date: 5/11/23
Casing Elevation: 446.54
Ground Elevation: 443.85 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792012.725 Lat: 38.84174783
E: (Y): 2322212.533 Long: -90.07668347 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BF1 for lithology Refer to construction log of X-BG1 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. Metter
Drilling Method: Sonic
Drill Rig Type: T450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-361

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-361

X: 2322212.533, Y: 792012.725

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

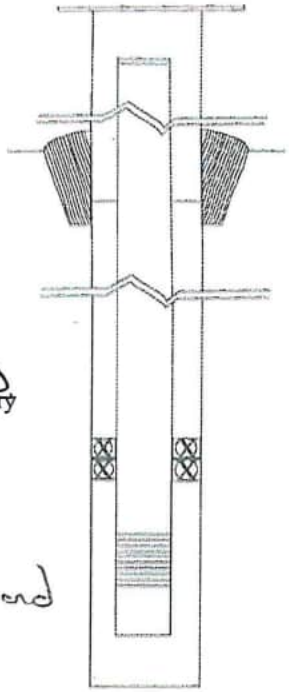
Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/10/23 Date Finished: 5/11/23

Report Form Completed By: Brett Howell Date: 5/11/23

ANNULAR SPACE DETAILS

Installed/drilled @ 18° angle



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		19.80' BH	Top of Seal
		21.80'	Top of Sand Pack
		29.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ SAND (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2'
Bottom of Screen to End Cap (feet)	2'
Screen Length (1st slot to last slot) (feet)	27'
Total Length of Casing (feet)	23'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

Well Completion Form (revised 02/06/02)

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BG2

Starting Date: 3/30/23
Completion Date: 3/30/23
Casing Elevation: 446.48
Ground Elevation: 444.05 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791998.271 Lat: 38.84170801
E: (Y): 2322259.614 Long: -90.07651822 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of T-BG2 for lithology Refer to construction log of X-BG2 for well build
59.1									

Completion Depth: 59.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BG2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BG2

X: 2322259.614, Y: 791998.271

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/30/23 Date Finished: 3/30/23

Report Form Completed By: Brett Howell Date: 3/30/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Global Quartz Sand #7

Installation Method: TREMIE PIPE

Setting Time: ~20 min

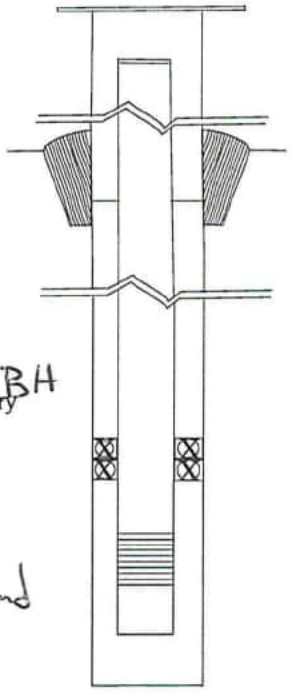
Type of Sand Pack: Global Quartz Sand

Grain Size: # 7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+1.90'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		19.90'	Top of Seal
		22.80'	Top of Sand Pack
		24.10	Top of Screen
		57.10	Bottom of Screen
		59.10	Bottom of Well
		59.10	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8"
ID of Riser Pipe (inches)	4"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	20'
Bottom of Screen to End Cap (feet)	20'
Screen Length (1st slot to last slot) (feet)	33'
Total Length of Casing (feet)	26'
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BG3

Starting Date: 7/12/23
Completion Date: 7/12/23
Casing Elevation: 446.71
Ground Elevation: 443.83 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791982.797 Lat: 38.84166547
E: (Y): 2322278.117 Long: -90.07645331 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BF3 for lithology Refer to construction log of X-BG3 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name:
Drilling Method: Sonic
Drill Rig Type:
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: ____ ft., After ____ hrs.
Water Depth: ____ ft., After ____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BG3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BG3

X: 2322278.117, Y: 791982.797

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 7/11/23 Date Finished: 7/12/23

Report Form Completed By: Brett Howell Date: 7/12/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ SAND Bit (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~10min

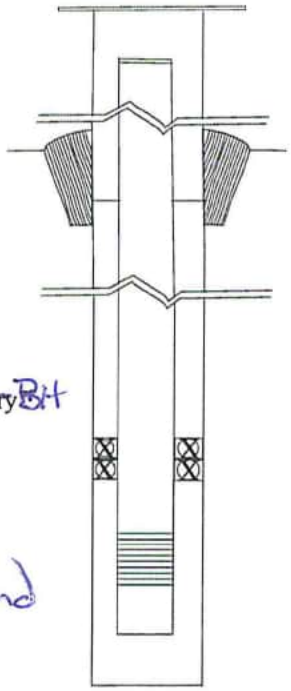
Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		000'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.06'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		5900'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

B/A

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	7
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	40
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BH2

Starting Date: 6/14/23
Completion Date: 6/14/23
Casing Elevation: 447.37
Ground Elevation: 444.45 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792028.039 Lat: 38.84178975
E: (Y): 2322259.444 Long: -90.07651871 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BH3 for lithology Refer to construction log of X-BH2 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-BH2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BH2

X: 2322259.444, Y: 792028.039

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

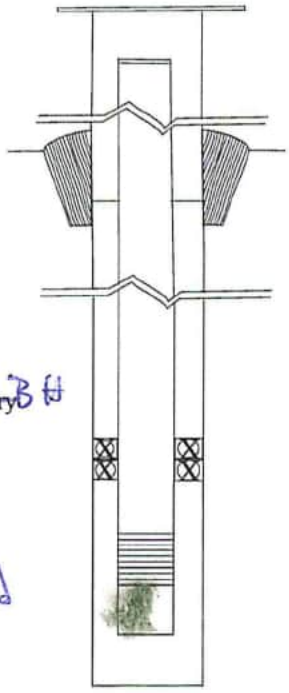
Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/13/23 Date Finished: 6/14/23

Report Form Completed By: Brett Howell Date: 6/14/23

ANNULAR SPACE DETAILS



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		N/M	Static Water Level (After Completion)
		21.00'	Top of Seal
		23.00'	Top of Sand Pack
		24.00'	Top of Screen
		57.00'	Bottom of Screen
		59.00'	Bottom of Well
		59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - - ~~Granular, Pellet, Slurry~~ 3/8 (Choose One)

Global Quartz Sand #8

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of Sand Pack: Global Quartz Sand

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304~~, SS316, ~~PTFE~~, ~~PVC~~, or Other
Riser Pipe Above W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Screen	~~SS304~~, SS316, PTFE, PVC, or Other

3/4"

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	260
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-BH3

Starting Date: 7/13/23
Completion Date: 7/13/23
Casing Elevation: 446.56
Ground Elevation: 444.06 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792013.473 Lat: 38.84174971
E: (Y): 2322277.172 Long: -90.07645652 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SI-BH3 for lithology Refer to construction log of X-BH3 for well build
59									

Completion Depth: 59.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former ROXANA Public Works Yard Well #: X-BH3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-BH3

X: 2322277.172, Y: 792013.473

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: Alex Duncan

Consulting Firm: ~~HD Sonic~~ AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable water

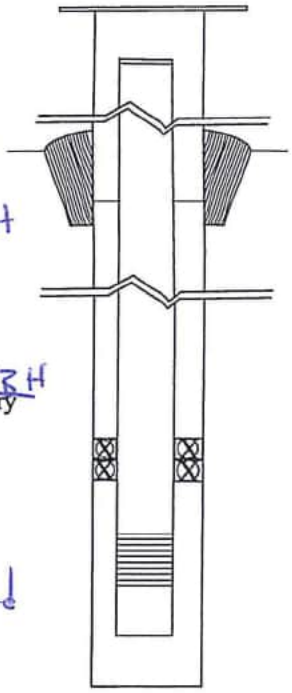
Logged By: Brett Howell Date Started: 7/13/23 Date Finished: 7/13/23

Report Form Completed By: Brett Howell Date: 7/13/23

ANNULAR SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	N/A	Top of Protective Casing
	____	+2.00'	Top of Riser Pipe
	____	0.00'	Ground Surface
	____	0.00'	Top of Annular Sealant
	____	N/m	Static Water Level (After Completion)
	____	21.20'	Top of Seal
	____	23.00'	Top of Sand Pack
	____	24.00'	Top of Screen
	____	57.00'	Bottom of Screen
	____	59.00'	Bottom of Well
	____	59.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum



Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie Pipe

Setting Time: ~20 min

Type of ~~Bentonite~~ SAND Seal - ~~Granular~~, Pellet, Slurry BH (Choose One)

Global Quartz Sand #2

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Global Quartz Sand

Grain Size: #7 (Sieve Size)

Installation Method: Tremie Pipe

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ N/A
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	8
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	33
Total Length of Casing (feet)	35
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-CB1

Starting Date: 10/27/23
Completion Date: 10/27/23
Casing Elevation: 438.50
Ground Elevation: 436.53 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791866.775 Lat: 38.84134721
E: (Y): 2322164.606 Long: -90.07685224 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-105 for lithology Refer to construction log of X-CB1 for well build
71									

Completion Depth: 71.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-CB1

State Plane Coordinate: X _____ Y _____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: X-CB1

X: 2322164.606, Y: 791866.775

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/27/23 Date Finished: 10/27/23

Report Form Completed By: BRETT HOWELL Date: 10/27/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: 0530 min

Type of Bentonite Seal - ~~Granular~~, ~~Pellet~~, ~~Slurry~~ #8 SAND
(Choose One)

Installation Method: Tremie Pipe

Setting Time: 2110 min

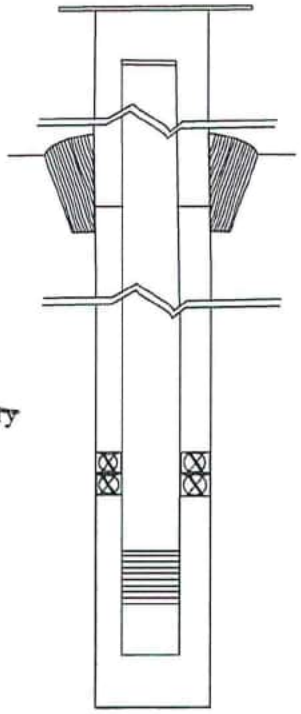
Type of Sand Pack: Colorado Silica

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: TREMIE PIPE



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		NA	Top of Protective Casing
		+2.00	Top of Riser Pipe
		0.00	Ground Surface
		0.00	Top of Annular Sealant
		23.00	Static Water Level (After Completion)
		20.00	Top of Seal
		22.00	Top of Sand Pack
		24.00	Top of Screen
		69.00	Bottom of Screen
		71.00	Bottom of Well
		71.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10.25
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	45
Total Length of Casing (feet)	71
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-CB3

Starting Date: 10/26/23
Completion Date: 10/27/23
Casing Elevation: 438.16
Ground Elevation: 436.56 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791889.998 Lat: 38.84141103
E: (Y): 2322143.902 Long: -90.07692486 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-105 for lithology Refer to construction log of X-CB3 for well build
71									

Completion Depth: 71.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-CB3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-CB3

X: 2322143.902, Y: 791889.998

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharringhausen

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/26/23 Date Finished: 10/27/23

Report Form Completed By: BRETT HOWELL Date: 10/27/23

ANNUAL SPACE DETAILS

	Elevations (MSL)*	Depths (BGS)	(.01ft.)
	____	NA	Top of Protective Casing
	____	+2.00'	Top of Riser Pipe
	____	0.00'	Ground Surface
	____	0.00'	Top of Annular Sealant
	____	~3.500'	Static Water Level (After Completion)
	____	20.00'	Top of Seal
	____	22.00'	Top of Sand Pack
	____	24.00'	Top of Screen
	____	69.00'	Bottom of Screen
	____	71.00'	Bottom of Well
	____	71.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: 24 hrs.

Type of Bentonite Seal - - ~~Granular~~, ~~Pellet~~, ~~Slurry~~ #8 SAND
(Choose One)

Installation Method: Tremie

Setting Time: 30 min

Type of Sand Pack: Coarse Filter Sand

Grain Size: #7 (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: NA
(if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
er Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10.25
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	45
Total Length of Casing (feet)	71
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-CC1

Starting Date: 10/30/23
Completion Date: 10/30/23
Casing Elevation: 438.51
Ground Elevation: 436.36 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791853.254 Lat: 38.84131009
E: (Y): 2322160.481 Long: -90.07686678 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-105 for lithology Refer to construction log of X-CC1 for well build
71									

Completion Depth: 71.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-CC1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-CC1

X: 2322160.481, Y: 791853.254

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

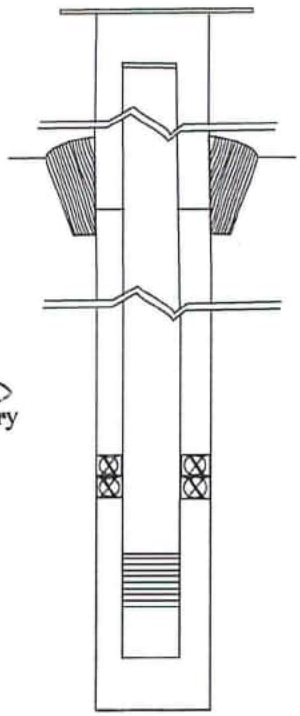
Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/30/23 Date Finished: 10/30/23

Report Form Completed By: BRETT HOWELL Date: 10/30/23

ANNULAR SPACE DETAILS



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	NA	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	~35.00'	Static Water Level (After Completion)
	19.90'	Top of Seal
	21.90'	Top of Sand Pack
	24.00'	Top of Screen
	69.00'	Bottom of Screen
	71.00'	Bottom of Well
	71.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~40 min

Type of Bentonite Seal - - ~~Granular, Pellet, Slurry~~ #8 SAND (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

Type of Sand Pack: Covia F.Hersil

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: TREMIE PIPE

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

~~Protective Casing~~	~~SS304, SS316, PTFE, PVC, or Other~~
er Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10.25
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	45
Total Length of Casing (feet)	71
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW X BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
X-CC5

Starting Date: 10/31/23
Completion Date: 10/31/23
Casing Elevation: 438.69
Ground Elevation: 436.24 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791894.295 Lat: 38.84142290
E: (Y): 2322116.587 Long: -90.07702074 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-102 for lithology Refer to construction log of X-CC5 for well build
71									

Completion Depth: 71.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Josh Edwards
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: X-CC5

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: X-CC5

X: 2322116.587, Y: 791894.295

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Josh Edwards

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/31/23 Date Finished: 10/31/23

Report Form Completed By: BRETT HOWELL Date: 10/31/23

ANNULAR SPACE DETAILS

Drilled @ a 10° angle to the North.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of Bentonite Seal - ~~Granular, Pellet, Slurry~~ #8 Std (Choose One)

Installation Method: Tremie Pipe

Setting Time: ~10 min

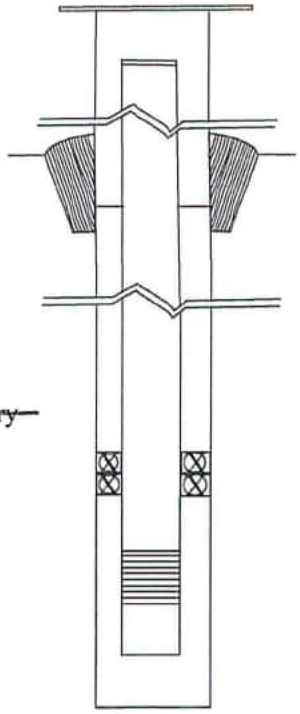
Type of Sand Pack: Covia Filtersil

Grain Size: ~~#7~~ (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: TREMIE PIPE



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+2.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	~35.00'	Static Water Level (After Completion)
	20.00'	Top of Seal
	22.00'	Top of Sand Pack
	24.00'	Top of Screen
	69.00'	Bottom of Screen
	71.00'	Bottom of Well
	71.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	10.25
ID of Riser Pipe (inches)	4
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	2
Screen Length (1st slot to last slot) (feet)	45
Total Length of Casing (feet)	71
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AB2

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: Not Installed
Ground Elevation: 443.51 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791988.682 Lat: 38.84168217
E: (Y): 2322078.500 Long: -90.07715414 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log SB-101
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
T-AB2

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: Not Installed
Ground Elevation: 443.51 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791988.682 Lat: 38.84168217
E: (Y): 2322078.500 Long: -90.07715414 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log SB-101
30									
		50		0.0					
				0.0			SM	Loose, wet, dark yellowish brown (10 YR - 4/4), very fine to fine grained silty SAND (SM) ▽	
35				0.0					
				0.0			SW	Becomes fine to medium grained SAND (SW) with trace silt	
				0.0			SP	Becomes pale brown (10 YR - 6/3) and very fine to fine grained SAND (SP)	
								Becomes dark yellowish brown (10 YR - 4/4)	
40									
				3.9				Becomes fine to medium grained	
		60		0.0					
				0.0					
45				26.9				Becomes brown (7.5 YR - 4/2)	
				46.0				Becomes dark gray (10 YR - 4/1)	
				463.1					
								Becomes very dark gray (10 YR - 3/1)	Sample TAB2-48-061523 @1550
		100		15000					
				15000					

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AB2

Starting Date: 6/15/23
Completion Date: 6/15/23
Casing Elevation: Not Installed
Ground Elevation: 443.51 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791988.682 Lat: 38.84168217
E: (Y): 2322078.500 Long: -90.07715414 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		15000 15000 15000 15000 15000 15000 15000 15000 15000				SAME: Loose, wet, very dark gray (10 YR - 3/1), fine to medium grained SAND (SP)	Sample TAB2-59-061523 @1615
60								Bottom of boring at 60' bgs	
65									
70									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 35 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AB2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-AB2

X: 2322078.5, Y: 791988.682

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/15/23 Date Finished: 6/16/23

Report Form Completed By: Brett Howell Date: 6/16/23

ANNULAR SPACE DETAILS

NO screen or sand as this is a temperature monitoring point

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

~~Type of Bentonite Seal - - Granular, Pellet, Slurry~~ BH
(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

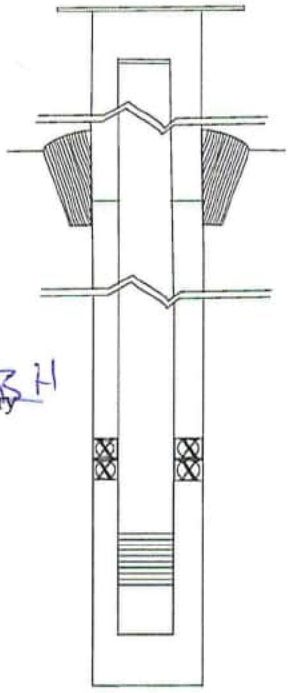
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.06'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		~~60.00~~ N/A BGH	Bottom of Screen
		60.00'	Bottom of Well
		60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AB3

Starting Date: 4/28/23
Completion Date: 4/28/23
Casing Elevation: 445.64
Ground Elevation: 442.40 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 792002.812 Lat: 38.84172105
E: (Y): 2322049.864 Long: -90.07725463 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AC4 for lithology Refer to construction log of T-AB3 for well building
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AB3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-AB3

X: 2322049.864, Y: 792002.812

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 4/28/23 Date Finished: 4/28/23

Report Form Completed By: Brett Howell Date: 4/28/23

ANNULAR SPACE DETAILS

No screen, sand, or seal. Temperature monitoring point is cement only.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One) BH

No seal, all Portland cement

Installation Method: TREMIE PIPE

Setting Time: N/A

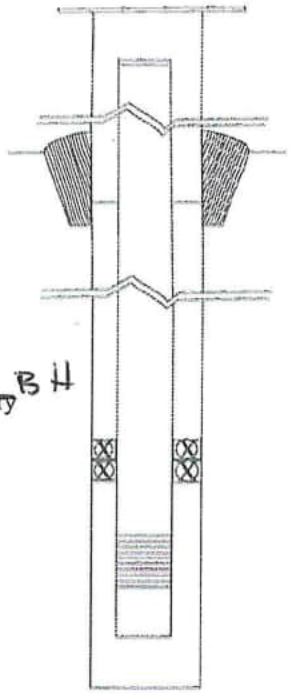
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
Top of Protective Casing		N/A	
Top of Riser Pipe		+3.00'	
Ground Surface		0.00'	
Top of Annular Sealant		0.00'	
Static Water Level (After Completion)		NM	
Top of Seal		N/A	
Top of Sand Pack		N/A	
Top of Screen		N/A	
Bottom of Screen		N/A	
Bottom of Well		60.00'	
Bottom of Borehole		60.00'	

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	+3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60'
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AC2

Starting Date: 5/25/23
Completion Date: 5/25/23
Casing Elevation: 446.72
Ground Elevation: 443.15 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791957.499 Lat: 38.84159656
E: (Y): 2322073.352 Long: -90.07717232 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AD3 for lithology Refer to construction log of T-AC2 for well building
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AC2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-AC2

X: 2322073.352, Y: 791957.499

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/25/23 Date Finished: 5/25/23

Report Form Completed By: Brett Howell Date: 5/25/23

ANNULAR SPACE DETAILS

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~40 min

~~Type of Bentonite Seal - Granular, Pellet, Slurry~~ BH
(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

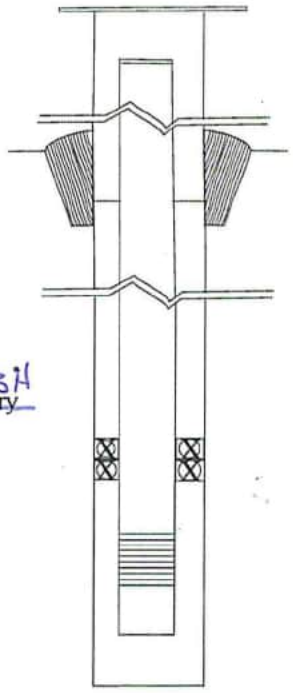
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		N/A	Bottom of Screen
		60.00'	Bottom of Well
		60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AD5

Starting Date: Not Installed
Completion Date: Not Installed
Casing Elevation: 439.72
Ground Elevation: 436.15 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791972.905 Lat: 38.84163901
E: (Y): 2322017.189 Long: -90.07736945 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of PD-01 for lithology
10									Refer to construction log of T-AD5 for well building
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Former Roxana Public Works Yard Well #: T-AD5

State ° ' " ° ' " Borehole #: T-AD5

Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____

X: 2322017.189, Y: 791972.905

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/23/23 Date Finished: 2/23/23

Report Form Completed By: Brett Howell Date: 2/23/23

ANNULAR SPACE DETAILS

60' bgs TD, temperature monitoring well. No screen, so no sand pack required. Grout top to bottom.

Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie Pipe

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

Installation Method: Tremie ~~Portland Cement~~

Setting Time: ~30 min

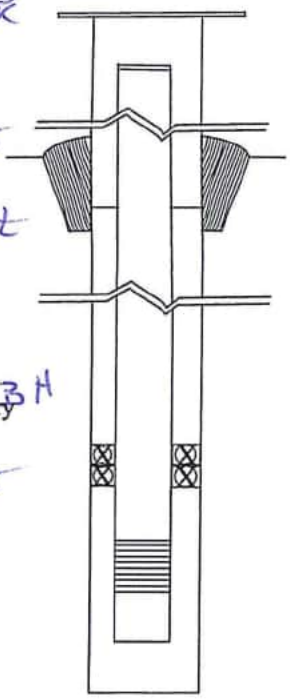
Type of Sand Pack: ~~Slds~~ BH N/A

Grain Size: ~~#1~~ BH N/A (Sieve Size)

Installation Method: N/A

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+3.0'	Top of Riser Pipe
____	0.0'	Ground Surface
____	0.0'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	N/A	Top of Seal
____	N/A	Top of Sand Pack
____	N/A	Top of Screen
____	N/A	Bottom of Screen
____	60'	Bottom of Well
____	60'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

No screen. Temp monitor points are all riser pipe.

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60'
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AE3

Starting Date: 3/14/23
Completion Date: 3/14/23
Casing Elevation: 439.15
Ground Elevation: 435.54 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791912.525 Lat: 38.84147313
E: (Y): 2322051.403 Long: -90.07724953 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AE4 for lithology
10									Refer to construction log of T-AE3 for well building
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AE3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-AE3

X: 2322051.403, Y: 791912.525

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/14/23 Date Finished: 3/14/23

Report Form Completed By: Brett Howell Date: 3/14/23

ANNULAR SPACE DETAILS

Portland Cement bottom to top. No screen needed as this well is a temperature monitoring well.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~20 min

Type of ~~Bentonite Seal~~ - - ~~Granular, Pellet, Slurry~~ B H
Portland cement (Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

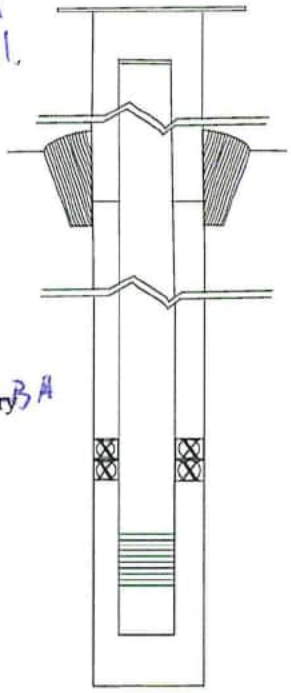
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+3.0'	Top of Riser Pipe
	0.0'	Ground Surface
	0.0'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	N/A	Top of Seal
	N/A	Top of Sand Pack
	N/A	Top of Screen
	N/A	Bottom of Screen
	60.0'	Bottom of Well
	60.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ B H
Riser Pipe Above W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ B H

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	40'
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AE5

Starting Date: 5/19/23
Completion Date: 5/19/23
Casing Elevation: 438.10
Ground Elevation: 434.76 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791943.287 Lat: 38.84155774
E: (Y): 2322000.154 Long: -90.07742936 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AF6 for lithology Refer to construction log of T-AE5 for well building
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AES

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: T-AES

X: 2322000.154, Y: 791943.287

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/19/23 Date Finished: 5/19/23

Report Form Completed By: Brett Howell Date: 5/19/23

ANNULAR SPACE DETAILS

No sand/screen as this is a temperature monitoring point only.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~35 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

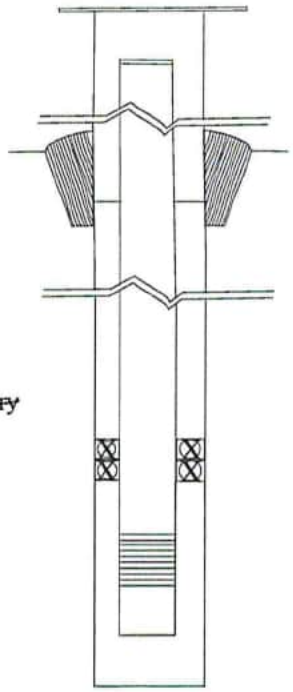
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		60.00	Bottom of Screen
		60.00'	Bottom of Well
		60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316,~~ PTFE, PVC, or Other
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
ɔcreen	SS304, SS316, PTFE, PVC, or Other

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AF3

Starting Date: 5/16/23
Completion Date: 5/16/23
Casing Elevation: 438.95
Ground Elevation: 435.76 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791883.045 Lat: 38.84139218
E: (Y): 2322052.657 Long: -90.07724523 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-AF3 for lithology Refer to construction log of T-AF3 for well building
5									
10									
15									
20									

Completion Depth: 60.2 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AF3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-AF3

X: 2322052.657, Y: 791883.045

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/15/23 Date Finished: 5/15/23

Report Form Completed By: Brett Howell Date: 5/15/23

ANNULAR SPACE DETAILS

Temperature wells have no screen. Portland cement only

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - ~~Granular, Pellet, Slurry~~ NA BH
(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

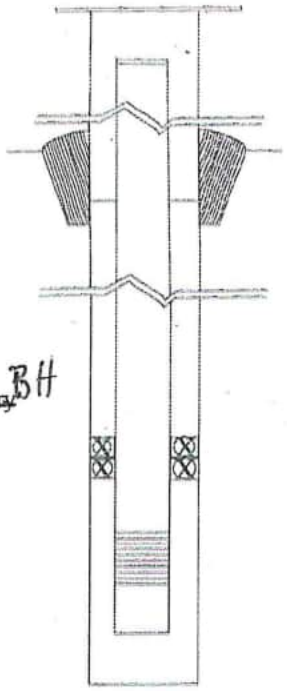
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+2.80'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		60.2'	Bottom of Screen
		60.2'	Bottom of Well
		60.2'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AG6

Starting Date: 3/17/23
Completion Date: 3/17/23
Casing Elevation: 437.66
Ground Elevation: 434.47 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791882.714 Lat: 38.84139151
E: (Y): 2321964.063 Long: -90.07755628 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AI7 for lithology
10									Refer to construction log of T-AG6 for well building
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AG6

State Plane Coordinate: X ____ Y ____ (or) Latitude: ___ ___ ___ Longitude: ___ ___ ___ Borehole #: T-AG6

X: 2321964.063, Y: 791882.714

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 3/17/23 Date Finished: 3/17/23

Report Form Completed By: Brett Howell Date: 3/17/23

ANNULAR SPACE DETAILS

No screen, seal, or sand pack as this is a temperature monitoring well.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of ~~Bentonite~~ Seal - ~~Granular, Pellet, Slurry~~ BH
(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

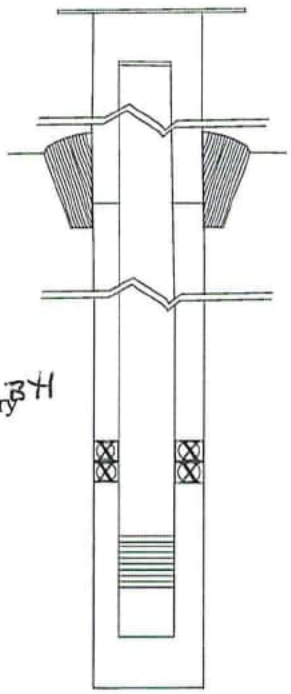
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		N/A	Bottom of Screen
		60.0'	Bottom of Well
		60.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
~~ser Pipe Below W.T.~~	SS304, SS316, PTFE, PVC, or Other
~~creen~~	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60'
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AH5

Starting Date: 2/20/23
Completion Date: 2/20/23
Casing Elevation: 438.26
Ground Elevation: 434.80 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791857.417 Lat: 38.84132197
E: (Y): 2321995.965 Long: -90.07744437 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-AJ6 for lithology
10									Refer to construction log of T-AH5 for well building
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

AECOM

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: Madison

Site Name: Ro Former Roxana Public Works Yard Well #: T-AH5

Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-AH5

X: 2321995.965, Y: 791857.417

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: HD Sonic Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 2/18/23 Date Finished: 2/20/23

Report Form Completed By: Brett Howell Date: 2/20/23

ANNULAR SPACE DETAILS

grout boring 60' bgs to 0.0' bgs. No screen, no sand pack required. Temperature monitoring well.

Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie

Setting Time: 25 min

Type of ~~Bentonite Seal~~ - ~~Granular, Pellet, Slurry~~ BH Portland Cement (Choose One)

Installation Method: Portland Cement

Setting Time: 25 min

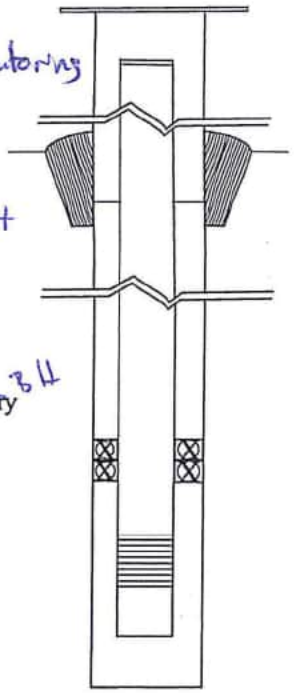
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: N/A

Type of Backfill Material: — N/A (if applicable)

Installation Method: — N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+3.0'	Top of Riser Pipe
____	0.0'	Ground Surface
____	0.0'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	NA	Top of Seal
____	N/A	Top of Sand Pack
____	N/A	Top of Screen
____	N/A	Bottom of Screen
____	60.0'	Bottom of Well
____	60.0'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Pipe Above W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Pipe Below W.T.	~~SS304~~, SS316, PTFE, PVC, or Other
Screen	~~SS304~~, SS316, PTFE, PVC, or Other

NO screen, temperature monitoring well

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	0"
Screen Length (1st slot to last slot) (feet)	No screen
Total Length of Casing (feet)	60'
Screen Slot Size **	No screen

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-AI7

Starting Date: 5/13/23
Completion Date: 5/13/23
Casing Elevation: 438.02
Ground Elevation: 434.67 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791866.066 Lat: 38.84134580
E: (Y): 2321965.358 Long: -90.07755180 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-AJ8 for lithology
10									
15									
20									

Completion Depth: 60.1 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-AI7

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: T-AI7

X: 2321965.358, Y: 791866.066

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/13/23 Date Finished: 5/13/23

Report Form Completed By: Brett Howell Date: 5/13/23

ANNULAR SPACE DETAILS

No sand or seal, only portland cement.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ (Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

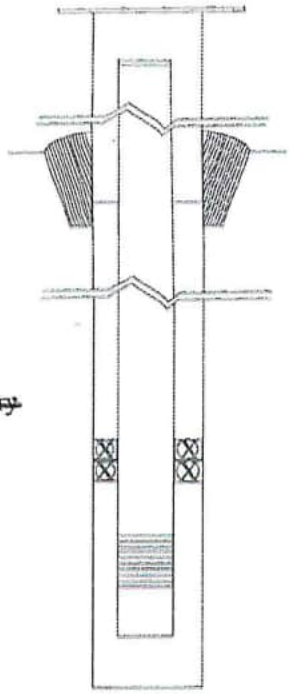
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		N/A	Bottom of Screen
		60.00'	Bottom of Well
		60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6"
ID of Riser Pipe (inches)	1.5"
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3'
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60'
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-BB2

Starting Date: 5/20/23
Completion Date: 5/20/23
Casing Elevation: 440.38
Ground Elevation: 436.86 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791840.228 Lat: 38.84127406
E: (Y): 2322256.881 Long: -90.07652836 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of X-BC3 for lithology Refer to construction log of T-BB2 for well building
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. McHar
Drilling Method: Sonic
Drill Rig Type: T 450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-BB2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-BB2

X: 2322256.881, Y: 791840.228

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike Metz

Consulting Firm: AECOM Geologist: ____

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: ____ Date Started: 5/20/23 Date Finished: 5/20/23

Report Form Completed By: ____ Date: 5/20/23

ANNULAR SPACE DETAILS

Drilled / Installed @ 20° degree angle

Temperature well has no screen / sand

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~25 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ BH

(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

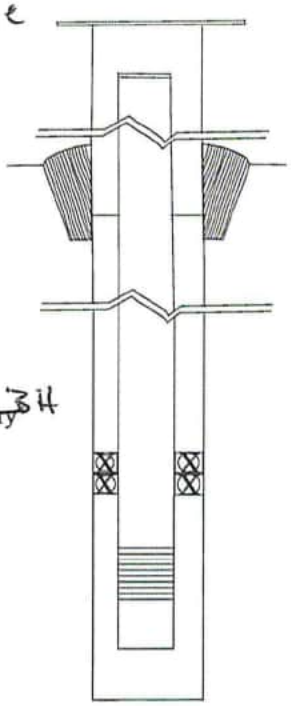
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		NM	Static Water Level (After Completion)
		N/A'	Top of Seal
		N/A'	Top of Sand Pack
		N/A'	Top of Screen
		N/A'	Bottom of Screen
		60.00'	Bottom of Well
		60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-BE3

Starting Date: 6/26/23
Completion Date: 6/26/23
Casing Elevation: 447.19
Ground Elevation: 443.68 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791923.414 Lat: 38.84150244
E: (Y): 2322270.763 Long: -90.07647934 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BD2 for lithology
10									Refer to construction log of T-BE3 for well building
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-BE3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-BE3

X: 2322270.763, Y: 791923.414

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/26/23 Date Finished: 6/26/23

Report Form Completed By: Brett Howell Date: 6/26/23

ANNULAR SPACE DETAILS

no sand or seal. Temperature wells have no screen so grout top to bottom

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~30 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ BH (Choose One)

BH ~~Global Quartz Sand~~

Installation Method: TREMIE PIPE

Setting Time: N/A

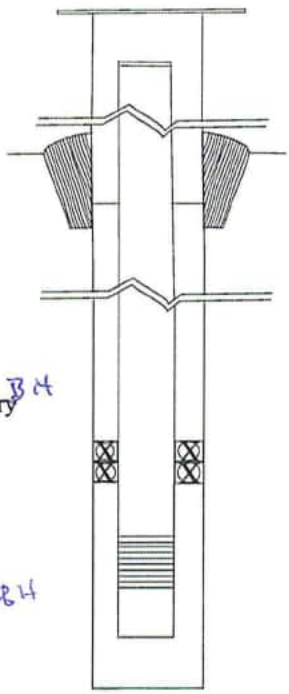
Type of Sand Pack: N/A ~~Global Quartz Sand~~ BH

Grain Size: N/A ~~#7~~ BH (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
____	N/A	Top of Protective Casing
____	+3.00'	Top of Riser Pipe
____	0.00'	Ground Surface
____	0.00'	Top of Annular Sealant
____	NM	Static Water Level (After Completion)
____	N/A	Top of Seal
____	N/A	Top of Sand Pack
____	N/A	Top of Screen
____	N/A	Bottom of Screen
____	60.00'	Bottom of Well
____	60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-BF2

Starting Date: 5/24/23
Completion Date: 5/24/23
Casing Elevation: 445.51
Ground Elevation: 444.07 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791975.449 Lat: 38.84164535
E: (Y): 2322259.862 Long: -90.07651743 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									Refer to boring log of SI-BF3 for lithology
10									Refer to construction log of T-BF2 for well building
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: M. McHar
Drilling Method: Sonic
Drill Rig Type: T 450
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency **Well Completion Report**

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-BF2

State Plane Coordinate: X ____ Y ____ (or) Latitude: ° ' " Longitude: ° ' " Borehole #: T-BF2

X: 2322259.862, Y: 791975.449

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Mike McHar

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 5/24/23 Date Finished: 5/24/23

Report Form Completed By: Brett Howell Date: 5/24/23

ANNULAR SPACE DETAILS

Drilled/Installed @ 13° angle

No screen, sand pack, or seal as this is a temperature monitoring point only

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: N40 min

~~Type of Bentonite Seal - - Granular, Pellet, Slurry~~ BH

(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

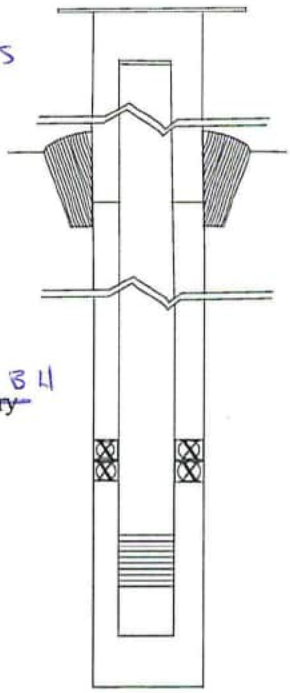
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A (if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
Top of Protective Casing		N/A	
Top of Riser Pipe		+3.00	
Ground Surface		0.00	
Top of Annular Sealant		0.00	
Static Water Level (After Completion)		NM	
Top of Seal		N/A	
Top of Sand Pack		N/A	
Top of Screen		N/A	
Bottom of Screen		N/A	
Bottom of Well		60.00	
Bottom of Borehole		60.00	

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BH
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ BH

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	0.010

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-BF3

Starting Date: 6/28/23
Completion Date: 6/28/23
Casing Elevation: 447.51
Ground Elevation: 443.70 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791953.228 Lat: 38.84158426
E: (Y): 2322285.270 Long: -90.07642830 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									Refer to boring log of SI-BF3 for lithology
									Refer to construction log of T-BF3 for well building
5									
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-BF3

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-BF3

X: 2322285.27, Y: 791953.228

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD SONIC Driller: HD SONIC - Trent Herod

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: SONIC Drilling Fluid (Type): POTABLE WATER

Logged By: Brett Howell Date Started: 6/28/23 Date Finished: 6/28/23

Report Form Completed By: Brett Howell Date: 6/28/23

ANNULAR SPACE DETAILS

No screen, sand, or seal as this is a temperature monitoring point only.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMENT

Installation Method: TREMIE PIPE

Setting Time: ~~Not~~ ~25 min

Type of ~~Bentonite~~ Seal - - ~~Granular, Pellet, Slurry~~ BA
(Choose One)

Installation Method: TREMIE PIPE

Setting Time: N/A

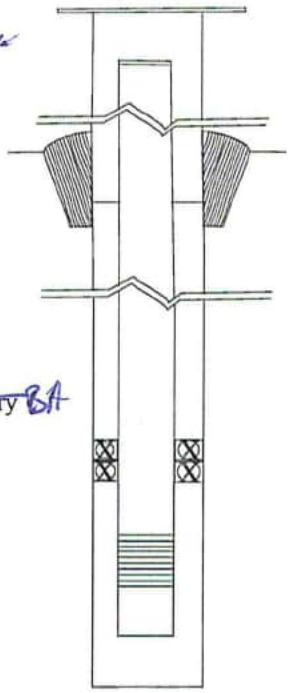
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: N/A
(if applicable)

Installation Method: N/A



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	N/A	Top of Protective Casing
	+3.00'	Top of Riser Pipe
	0.00'	Ground Surface
	0.00'	Top of Annular Sealant
	NM	Static Water Level (After Completion)
	N/A	Top of Seal
	N/A	Top of Sand Pack
	N/A	Top of Screen
	N/A	Bottom of Screen
	60.00'	Bottom of Well
	60.00'	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ BA
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
iser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
creen	~~SS304, SS316, PTFE, PVC, or Other~~ BA

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-BG2

Starting Date: 7/11/23
Completion Date: 7/11/23
Casing Elevation: 447.56
Ground Elevation: 444.06 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W

UTM (or State Plane) Coord
N: (X): 791998.091 Lat: 38.84170749
E: (Y): 2322268.723 Long: -90.07648624 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5									For top 30' refer to boring log SVP-07
10									
15									
20									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 43 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.

▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
T-BG2

Starting Date: 7/11/23
Completion Date: 7/11/23
Casing Elevation: 447.56
Ground Elevation: 444.06 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791998.091 Lat: 38.84170749
E: (Y): 2322268.723 Long: -90.07648624 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
									SAME: For top 30' refer to boring log SVP-07
30				0.3				Loose, wet, dark yellowish brown (10 YR - 4/4), very fine to fine grained silty SAND (SM)	Sample TBG2-071123-EB @0945
		40		0.0					
				0.9				Becomes yellowish brown (10 YR - 5/4) and fine to medium grained	
35				2.0			SM		
				0.1					
40				0.1					
				0.1					
				0.1				▽	
		100		0.8				Loose, wet, brown (10 YR - 4/3), fine to medium grained SAND (SW) with trace silt	
45				4.9					
				3.1					
				2.9			SW		
				6.3					
								Becomes grayish brown (10 YR - 5/2)	Sample TBG2-48-071123 @1110
								Becomes gray (10 YR - 5/1)	
		100		22.0					

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 43 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-BG2

Starting Date: 7/11/23
Completion Date: 7/11/23
Casing Elevation: 447.56
Ground Elevation: 444.06 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791998.091 Lat: 38.84170749
E: (Y): 2322268.723 Long: -90.07648624 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
55		100		41.0 130.0 141.0 330.0 377.0 876.0 2683.0 7800.0			SW	SAME: Loose, wet, gray (10 YR - 5/1), fine to medium grained SAND (SW) with trace silt Becomes very dark gray (10 YR - 3/1) with trace cobbles Becomes dark gray (10 YR - 4/1) and fine to coarse grained	Sample TBG2-59-071123 @1125 Sample TBG2-59-071123-DUP
60								Bottom of boring at 60' bgs	
65									
70									

Completion Depth: 60.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: HD Sonic
Driller Name: A. Duncan
Drilling Method: Sonic
Drill Rig Type: Versa Sonic
Logged by: M. Miller
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: 43 ft., After ATD hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: IL9115000 2 County: Madison

Site Name: Former Roxana Public Works Yard Well #: T-BG2

Site Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-BG2

X: 2322268.723, Y: 791998.091

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: HD Sonic Driller: Alex Duncan

Consulting Firm: AECOM Geologist: Brett Howell

Drilling Method: Sonic Drilling Fluid (Type): Potable Water

Logged By: Brett Howell Date Started: 7/11/23 Date Finished: 7/11/23

Report Form Completed By: Brett Howell Date: 7/11/23

ANNULAR SPACE DETAILS

NO Sand, Seal, or screen as this is a temperature monitoring point only.

Type of Surface Seal: Portland Cement

Type of Annular Sealant: Portland Cement

Installation Method: Tremie Pipe

Setting Time: ~ 30 min

~~Type of Bentonite Seal — Granular, Pellet, Slurry~~ Bit
(Choose One)

Installation Method: N/A

Setting Time: N/A

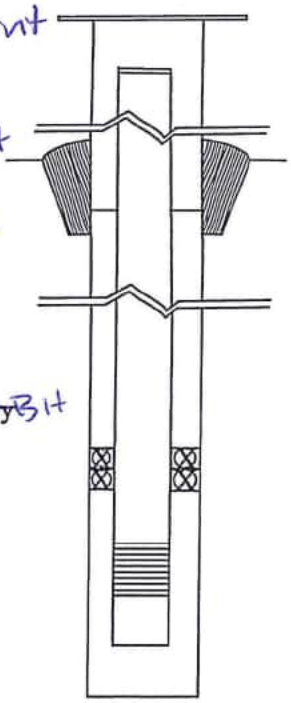
Type of Sand Pack: N/A

Grain Size: N/A (Sieve Size)

Installation Method: N/A

Type of Backfill Material: N/A
(if applicable)

Installation Method: N/A



	Elevations (MSL)*	Depths (BGS)	(.01ft.)
		N/A	Top of Protective Casing
		+3.00'	Top of Riser Pipe
		0.00'	Ground Surface
		0.00'	Top of Annular Sealant
		N M	Static Water Level (After Completion)
		N/A	Top of Seal
		N/A	Top of Sand Pack
		N/A	Top of Screen
		N/A	Bottom of Screen
		60.00'	Bottom of Well
		60.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~ Bit
Riser Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
Riser Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~ Bit

CASING MEASURMENTS

Diameter of Borehole (inches)	6
ID of Riser Pipe (inches)	1-5
Protective Casing Length (feet)	N/A
Riser Pipe Length (feet)	3
Bottom of Screen to End Cap (feet)	N/A
Screen Length (1st slot to last slot) (feet)	N/A
Total Length of Casing (feet)	60
Screen Slot Size **	N/A

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\BOREHOLES\SHELL RPW T BOREHOLES 60697537.GPJ C:\USERS\MCDAVIDC\ONEDRIVE - AECOM\PROGRAMS\GINT\TUTORIAL\AECOM STL (ENVIRONMEN

LOG OF BORING
T-CB1

Starting Date: 10/25/23
Completion Date: 10/25/23
Casing Elevation: 438.56
Ground Elevation: 436.63 NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): 791876.732 Lat: 38.84137455
E: (Y): 2322162.124 Long: -90.07686093 WGS 84

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0									Refer to boring log of SB-106 for lithology Refer to construction log of T-CB1 for well build
72									

Completion Depth: 72.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Bulldog Drilling
Driller Name: Robert Scharringhausen
Drilling Method: HSA
Drill Rig Type: CME
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

Illinois Environmental Protection Agency — Well Completion Report

Site Number: 1191150002 County: MADISON

Site Name: FORMER ROXANA PUBLIC WORKS YARD Well #: T-CB1

State Plane Coordinate: X ____ Y ____ (or) Latitude: ____ ____ ____ Longitude: ____ ____ ____ Borehole #: T-CB1

X: 2322162.124, Y: 791876.732

Surveyed by: Kowelman Engineering Inc. IL Registration #: N/A

Drilling Contractor: BULLDOG DRILLING Driller: Rob Scharringhausen

Consulting Firm: AECOM Geologist: BRETT HOWELL

Drilling Method: HOLLOW STEM AUGER Drilling Fluid (Type): POTABLE WATER

Logged By: BRETT HOWELL Date Started: 10/25/23 Date Finished: 10/25/23

Report Form Completed By: BRETT HOWELL Date: 10/25/23

ANNULAR SPACE DETAILS

Temperature monitoring well only, therefore there is no screen.

Type of Surface Seal: PORTLAND CEMENT

Type of Annular Sealant: PORTLAND CEMEMNT

Installation Method: TREMIE PIPE

Setting Time: ~45 min

Type of Bentonite Seal - - Granular, Pellet, Slurry (Choose One)

Installation Method: NA

Setting Time: NA

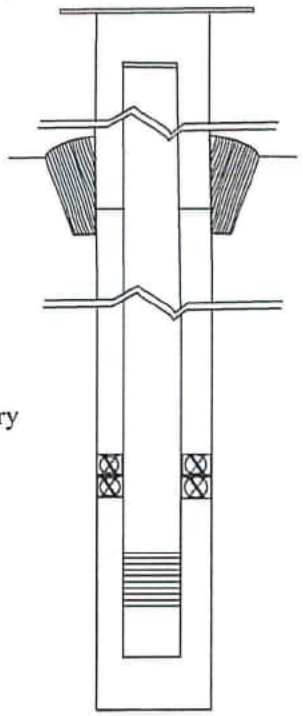
Type of Sand Pack: NA

Grain Size: NA (Sieve Size)

Installation Method: TREMIE PIPE

Type of Backfill Material: NA (if applicable)

Installation Method: TREMIE PIPE



Elevations (MSL)*	Depths (BGS)	(.01ft.)
	NA	Top of Protective Casing
	42.00	Top of Riser Pipe
	0.00	Ground Surface
	0.00	Top of Annular Sealant
	~35.00	Static Water Level (After Completion)
	NA	Top of Seal
	NA	Top of Sand Pack
	NA	Top of Screen
	NA	Bottom of Screen
	72.00	Bottom of Well
	72.00	Bottom of Borehole

* Referenced to a National Geodetic Datum

WELL CONSTRUCTION MATERIAL

(Choose one type of material for each area)

Protective Casing	~~SS304, SS316, PTFE, PVC, or Other~~
r Pipe Above W.T.	SS304, SS316, PTFE, PVC, or Other
er Pipe Below W.T.	SS304, SS316, PTFE, PVC, or Other
Screen	~~SS304, SS316, PTFE, PVC, or Other~~

CASING MEASURMENTS

Diameter of Borehole (inches)	8.25
ID of Riser Pipe (inches)	1.5
Protective Casing Length (feet)	NA
Riser Pipe Length (feet)	2
Bottom of Screen to End Cap (feet)	NA
Screen Length (1st slot to last slot) (feet)	NA
Total Length of Casing (feet)	72
Screen Slot Size **	NA

**Hand-Slotted Well Screens are Unacceptable

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-01

Starting Date: 12/5/22
Completion Date: 12/9/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0					Air knifed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0				Loose, dry, brown (7.5 YR - 4/4), fine to medium grained SAND (SW) with silt for 6"	Sample SVP01-10-120522 @1355
		100		0.0				Becomes yellowish brown (10 YR - 5/6) with trace silt	Begin geoprobe
				0.0					
				0.0					
15		90		0.0					
				0.0			SW		
				0.1					
20		80		0.4				Becomes dark grayish brown (10 YR - 4/2) with thin black silty bands/streaking	Sample SVP01-20-120922 @1240 Sample SVP01-20-120922-MS Sample SVP01-20-120922-MSD
				0.4				Becomes strong brown (7.5 YR - 5/6) with no bands	
		90		0.3				Becomes brown (7.5 YR - 5/4)	
								Thin black to dark brown banding for 3"	

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-01

Starting Date: 12/5/22
Completion Date: 12/9/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.5 0.5			SW	SAME: Loose, dry, brown (7.5 YR - 5/4), fine to medium grained SAND (SW) with trace silt Becomes light brown (7.5 YR - 6/3) with black to dark brown silty bands Becomes strong brown (7.5 YR - 5/8)	
30		100		0.5 0.4				Becomes light brown (7.5 YR - 6/3) with thick, black silty bands for 3" Becomes strong brown (7.5 YR - 5/8)	Sample SVP01-30-120922 @1250
								Bottom of boring at 31' bgs	Reference well construction log for SVP-01
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

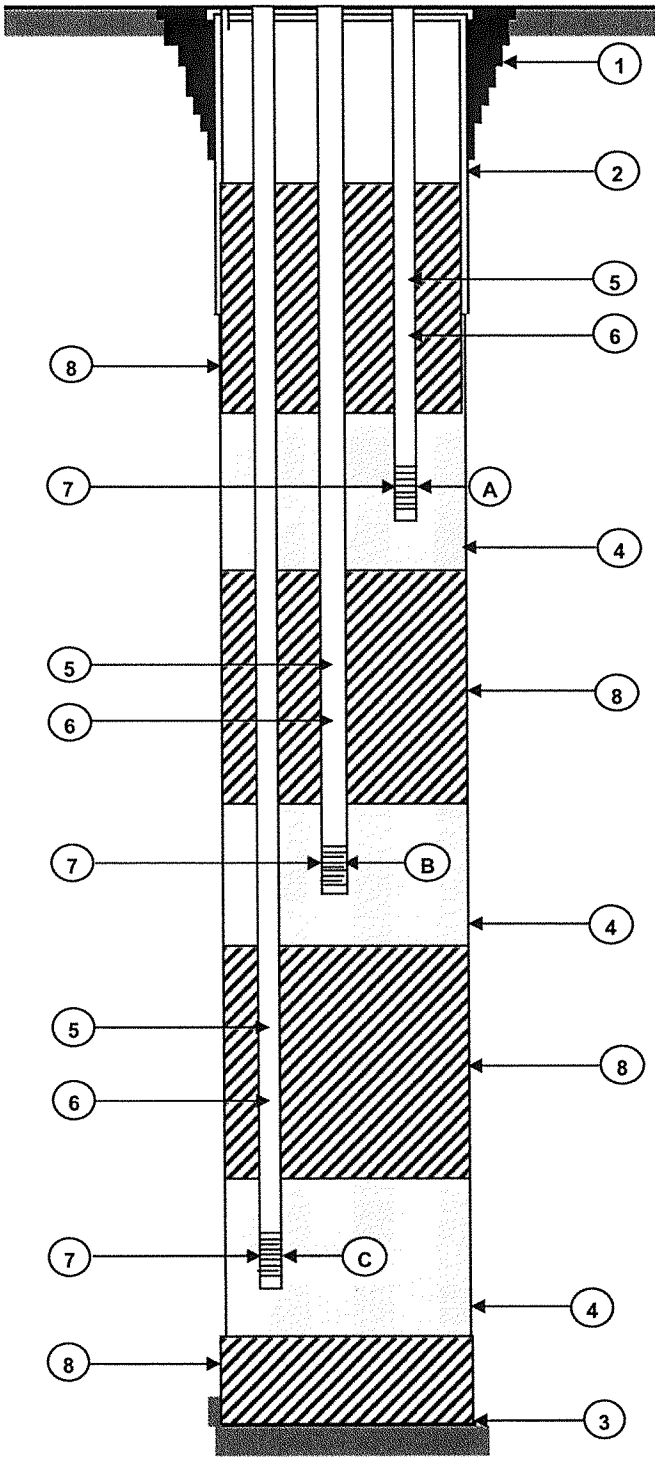
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-01

DATUM 1988 USGS INSTALLATION DATE 12/9/22

LOCATION SVP-01 (PW4)



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11	9.5	10.5	10.0	0.5	0.5	0.010
B	21	19.5	20.5	20.0	0.5	0.5	0.010
C	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-02

Starting Date: 12/5/22
Completion Date: 12/6/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0					Air knifed/HydroVACed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0			SM	Loose, dry, brown (7.5 YR - 4/4), fine to medium grained silty SAND (SM)	
				0.0			CL	Soft, dry, strong brown (7.5 YR - 4/6) CLAY (CL)	
				0.0			SC	Loose, dry, brown (7.5 YR - 4/4), fine to medium grained clayey SAND (SC)	
10							SM	Loose, dry, reddish brown (5 YR - 5/4), fine to medium grained SAND (SM) with silt	Sample SVP02-10-120522
				0.0			SC	Stiff, dry, strong brown (7.5 YR - 4/6), fine to medium grained clayey SAND (SC) for 6"	Begin geoprobe
		100		0.0				Becomes loose SAND (SW) with trace silt	
				0.0					
				0.0					
15		100		0.0					
				0.0					
							SW		
				0.0					
20		100		0.0					Sample SVP02-20-120622 @1245
				0.0					
								Becomes yellowish brown (10 YR - 5/4)	
		100		0.0					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-02

Starting Date: 12/5/22
Completion Date: 12/6/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		100		0.0 0.0			SW	SAME: Loose, yellowish brown (10 YR - 5/4) SAND (SW) with trace silt Black to dark brown streaking/stripes for 6" Becomes strong brown (7.5 YR - 5/6)	
		100		0.0 0.0 0.0				Becomes brown (10 YR - 5/3) with black to dark brown banding for 6"	Sample SVP02-30-120622 @1300
30									
								Bottom of boring at 31' bgs	Reference well construction log for SVP-02
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell, M. Massa
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

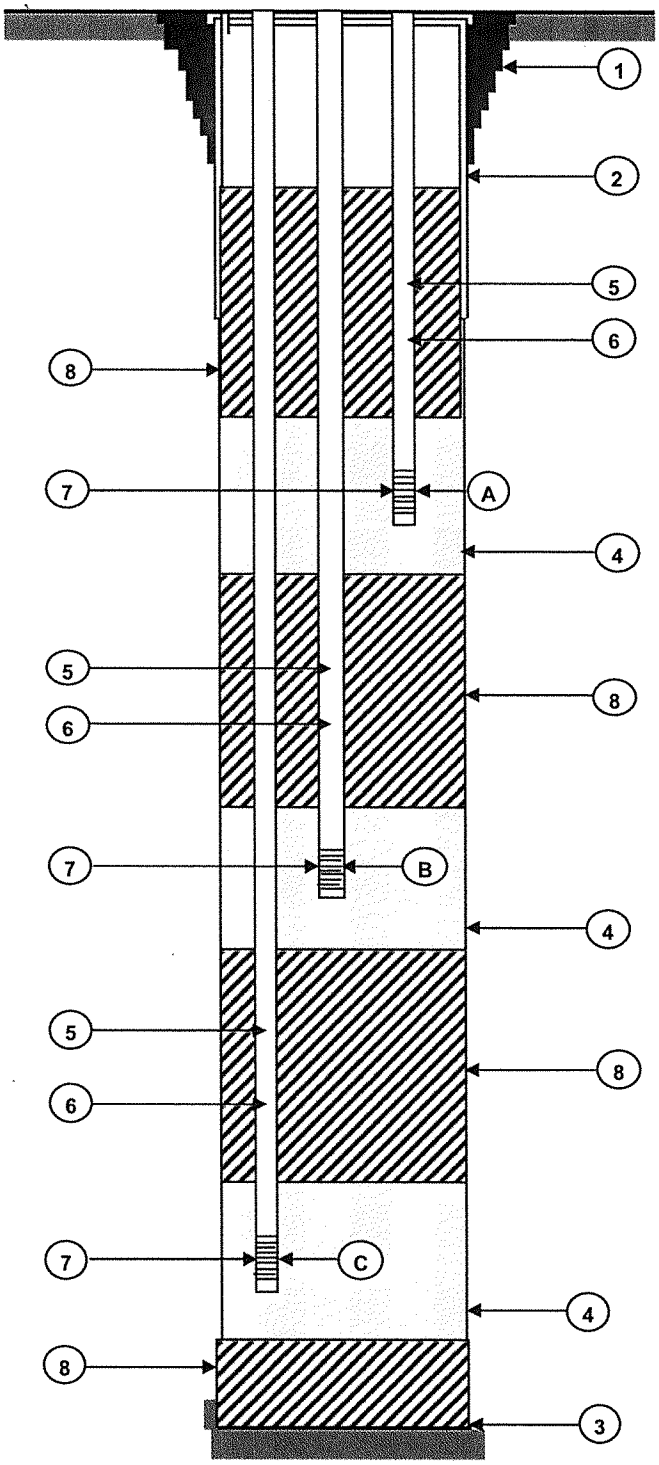
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-02

DATUM 1988 USGS INSTALLATION DATE 12/8/2022 - 12/9/2022

LOCATION SVP-02 (Public Works Yard)



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11	9.5	10.5	10.0	0.5	0.5	0.010
B	21	19.5	20.5	20.0	0.5	0.5	0.010
C	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL Stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-03

Starting Date: 12/12/22
Completion Date: 12/12/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0				0.0					Air knifed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10							CL	Soft, dry, strong brown (7.5 YR - 5/6), low plasticity silty CLAY (CL) with trace fine grained sand	Sample SVP03-10-121222 @1030
				0.0			SM	Loose, dry, strong brown (7.5 YR - 4/6), fine to medium grained SAND (SM) with silt for 6"	Begin geoprobe
		100		0.0			SC		
				0.1			SM	Becomes brown (7.5 YR - 5/4) clayey SAND (SC) for 3"	
							SC	Becomes SAND (SM) for 9"	
								1" clayey SAND (SC)	
				0.4				Dry, loose, brown (7.5 YR - 5/4), fine to medium grained SAND (SM) with silt	
15				0.3					
		90		0.2					
				0.2			SM		
				0.3					
20				0.6					Sample SVP03-20-121222 @1100
		90		0.3					
				0.4					
								Becomes SAND (SW) with trace silt	
		90		0.2			SW		

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
SVP-03

Starting Date: 12/12/22
Completion Date: 12/12/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.2 0.6 0.6			SW	SAME: Dry, loose, brown (7.5 YR - 5/4), fine to medium grained SAND (SW) with trace silt	
		100		0.4 0.5 0.4			SM SW SM SW	Becomes grayish brown (10 YR - 5/2) with thin black to dark brown silty bands for 6" Becomes SAND (SW) as silty bands grade out for 6" Becomes grayish brown with banding as above for 6" Silty bands grade out	Sample SVP03-30-121222 @1115
30								Bottom of boring at 31' bgs	Reference well construction log for SVP-03
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____

TOP OF INNER WELL CASING ELEVATION NA

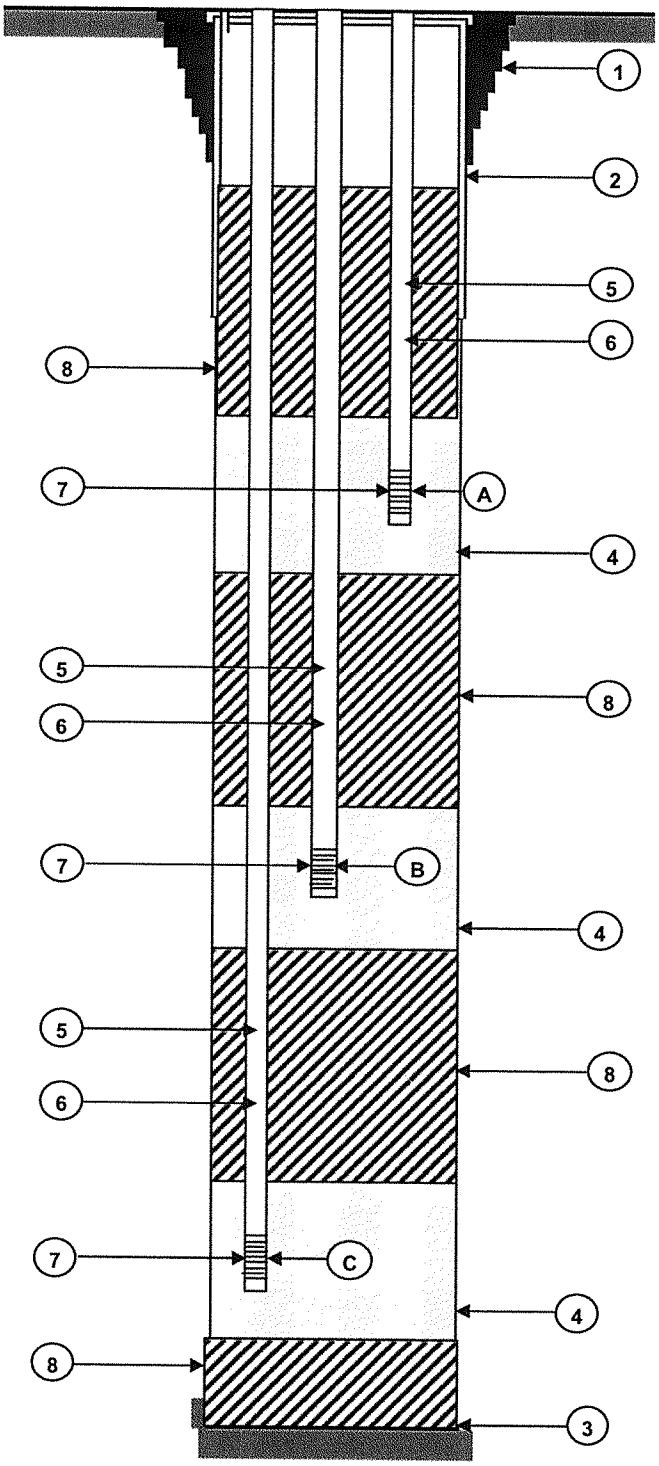
DATUM 1988 USGS

LOCATION SVP-03 (Publicworks Yard)

JOB NUMBER 60697537

BORING NUMBER SVP-03

INSTALLATION DATE 12/12/22



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11	9.5	10.5	10.0	0.5	0.5	0.010
B	21	19.5	20.5	20.0	0.5	0.5	0.010
C	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL stainless steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-04

Starting Date: 12/12/22
Completion Date: 12/12/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0			CL	Soft, moist, strong brown (7.5 YR - 4/6), medium plasticity silty CLAY (CL) with trace fine sand	Sample SVP04-10-121222 @1430
		100		0.0			SM	Loose, dry, strong brown (7.5 YR - 4/6), fine to medium grained SAND (SM) with silt	Begin geoprobe
				0.0					
							CL	Soft, moist, yellowish brown (10 YR - 5/4), medium plasticity silty CLAY (CL) with trace fine sand for 6"	
							SW	Loose, dry, pale brown (10 YR - 6/3), fine to medium grained SAND (SW) with trace silt	
15				0.0					
		90		0.0					
				0.0					
				0.0					
							CL	Soft, moist, yellowish brown (10 YR - 5/4), low plasticity silty CLAY (CL) with trace fine to medium grained sand for 6"	
							SW	Loose, moist, strong brown (7.5 YR - 5/6), fine to medium grained SAND (SW) with trace silt	
20				0.0					Sample SVP04-20-121222 @1455
		100		0.0					
				0.0					
				0.0					
		90		0.4			SC	Becomes SAND (SC) layered with thin clay bands/lamination	

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-04

Starting Date: 12/12/22
Completion Date: 12/12/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.3 0.2 0.2			SC	SAME: Loose, moist, strong brown (7.5 YR - 5/6), fine to medium grained SAND (SC) layered with thin clay bands/lamination	
		100		0.3 0.3 0.3			SW	Becomes light brownish gray (10 YR - 6/2) SAND (SW); clay bands grade out Becomes yellowish brown (10 YR - 5/6) with few black to dark brown bands	Sample SVP04-30-121222 @1515
30								Bottom of boring at 31' bgs	Reference well construction log for SVP-04
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-
Soil samples not collected

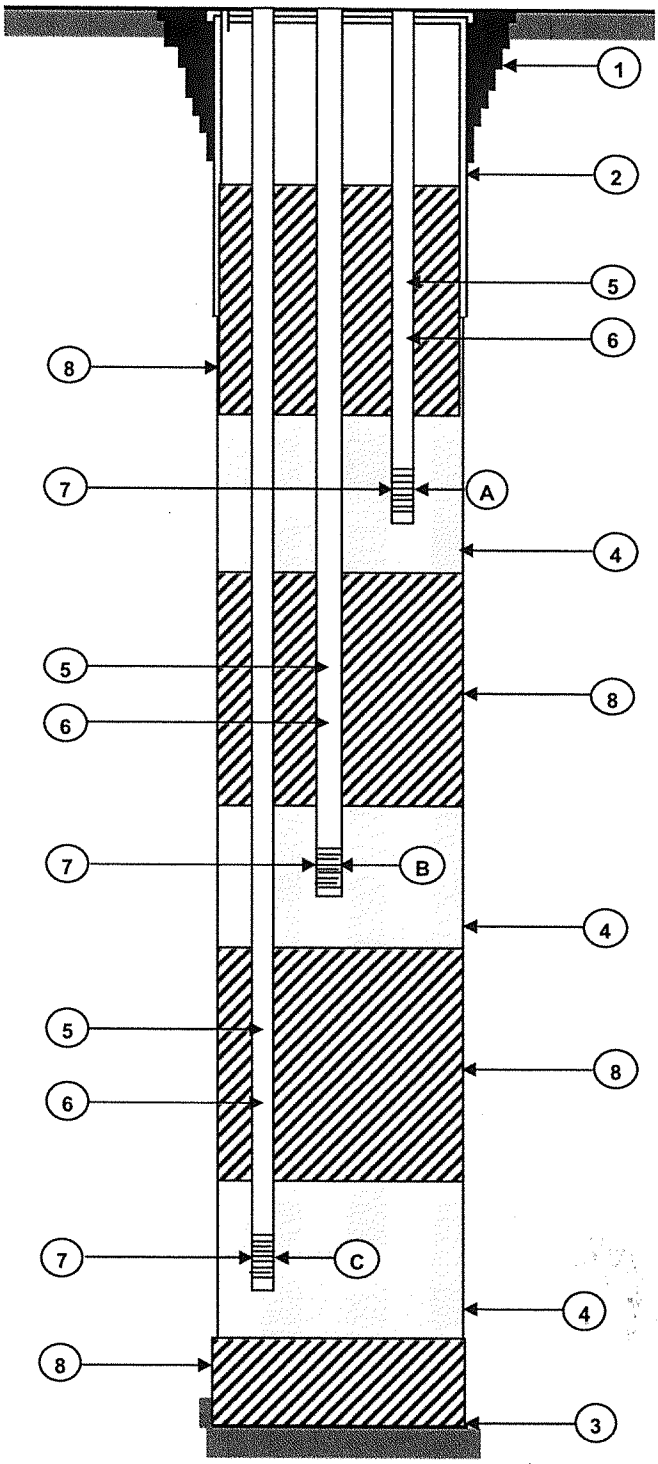
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-04

DATUM 1988 USGS INSTALLATION DATE 12/12/2022 -

LOCATION SVP-04 (Public Works Yard)



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11	9.5	10.5	10.0	0.5	0.5	0.010
B	21	19.5	20.5	20.0	0.5	0.5	0.010
C	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-05

Starting Date: 12/13/22
Completion Date: 12/13/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0					
				0.3			SW	Loose, dry, strong brown (7.5 YR - 5/6), fine to medium grained SAND (SW) with trace silt	Sample SVP05-10-121322 @1100 Sample SVP05-10-121322-MS Sample SVP05-10-121322-MSD Begin geoprobe
		100		0.2				Becomes yellowish brown (10 YR - 5/4) SAND (SM) with thin, light brown to black silty bands	
				0.2					
				0.2			SM	Silty bands grade out	
15				0.3					
		90		0.2					
				0.2			CL	Soft, low plasticity, silty CLAY (CL) with fine to medium grained sand for 4"	
				0.3				Becomes SAND (SM) with thin silty bands	
20				0.2					Sample SVP05-20-121322 @1125
		80		0.2			SM		
				1.3				Becomes strong brown (7.5 YR - 5/6)	
		90		0.3					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-05

Starting Date: 12/13/22
Completion Date: 12/13/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.3				SAME: Strong brown (7.5 YR - 5/6) SAND (SM) with thin silty bands	
		90		0.3					
				0.2			SM		
				0.2				Becomes brown (10 YR - 5/3) with thin black bands for 6"	
30		100		0.3					
				0.4					Sample SVP05-30-121322 @1140
								Bottom of boring at 31' bgs	Reference well construction log for SVP-05
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

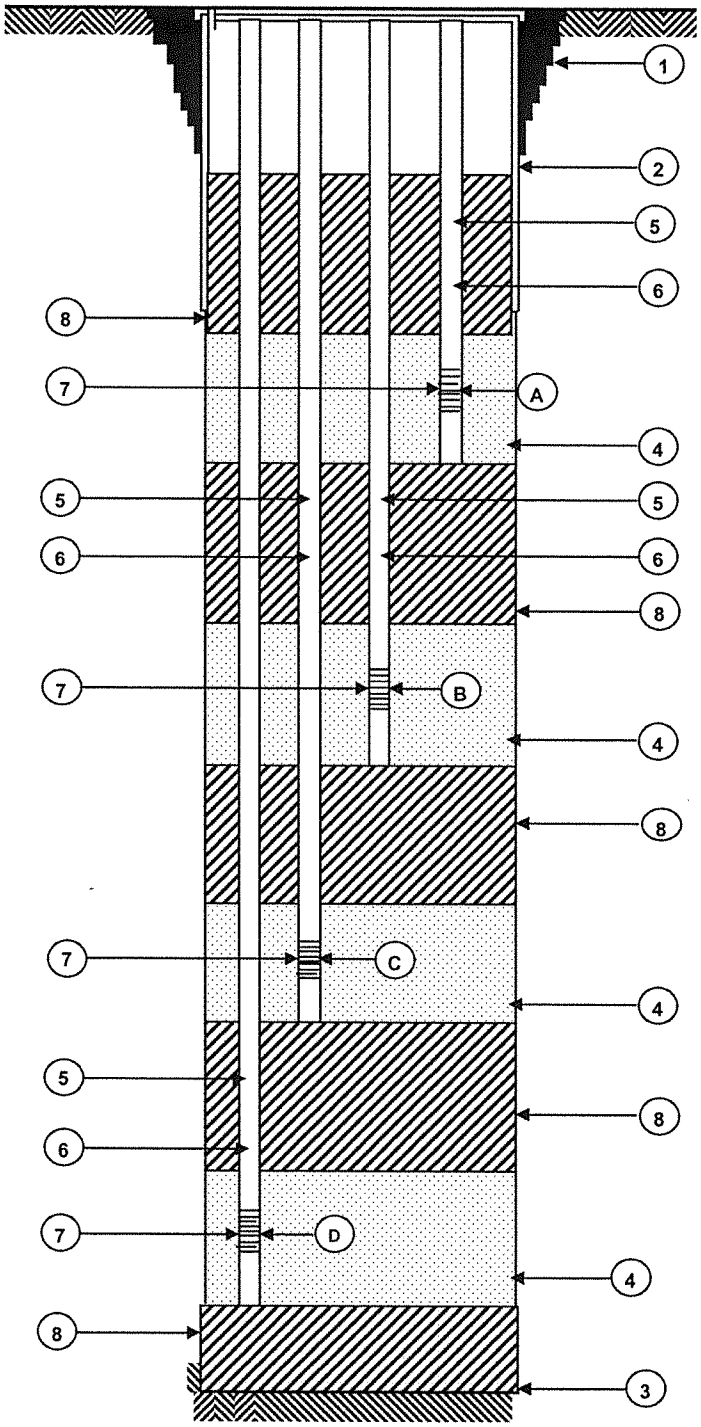
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-05

DATUM 1988 USGS INSTALLATION DATE 12/13/22

LOCATION SVP-05 (Public Works Yard)



VAPOR MONITORING PORT INSTALLATION DETAILS

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A					0.5	0.5	0.010
B	11	9.5	10.5	10.0	0.5	0.5	0.010
C	21	19.5	20.5	20.0	0.5	0.5	0.010
D	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL stainless steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

URS Corporation

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-06

Starting Date: 12/14/22
Completion Date: 12/14/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0					Air knifed to 10.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.8				Dry, loose, dark yellowish brown (10 YR - 4/4), fine to medium grained SAND (SW) with trace silt	Sample SVP06-10-121422 @0835
				0.7					Begin geoprobe
		100		0.7				Becomes yellowish brown (10 YR - 5/4) with thin black to brown silty bands	
				0.8			SW		
				1.2					
15				1.5					
		90		1.2					
				1.3			CL	Dry, soft, brown (10 YR - 5/3), low plasticity silty CLAY (CL) with trace fine grained sand for 3" with orange to brown to black streaking/banding	
							SW	Becomes SAND (SW) for 9"	
				1.3			CL	Dry, soft, grayish brown (10 YR - 5/2), low plasticity silty CLAY (CL) with trace fine grained sand with orange to brown streaking/banding	
20				1.0				Dry, loose, yellowish brown (10 YR - 5/4), fine to medium grained SAND (SW) with trace silt and thin orange to brown to black silty bands	Sample SVP06-20-121422 @0910
		80		0.8					
				0.8			SW		
								Silty bands less common	
		90		0.9					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

LOG OF BORING
SVP-06

Starting Date: 12/14/22
Completion Date: 12/14/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		1.2 1.3 1.2			SW	SAME: Dry, loose, yellowish brown (10 YR - 5/4), fine to medium grained SAND (SW) with trace silt and few thin orange to brown to black silty bands	
		100		1.3 1.4 1.2					
30							SC	Becomes soft to medium stiff, brown (10 YR - 5/3), medium plasticity, interlayered SAND (SC) and clay	Sample SVP06-30-121422 @0925
								Bottom of boring at 31' bgs	Reference well construction log for SVP-06
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP_

VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____

TOP OF INNER WELL CASING ELEVATION NA

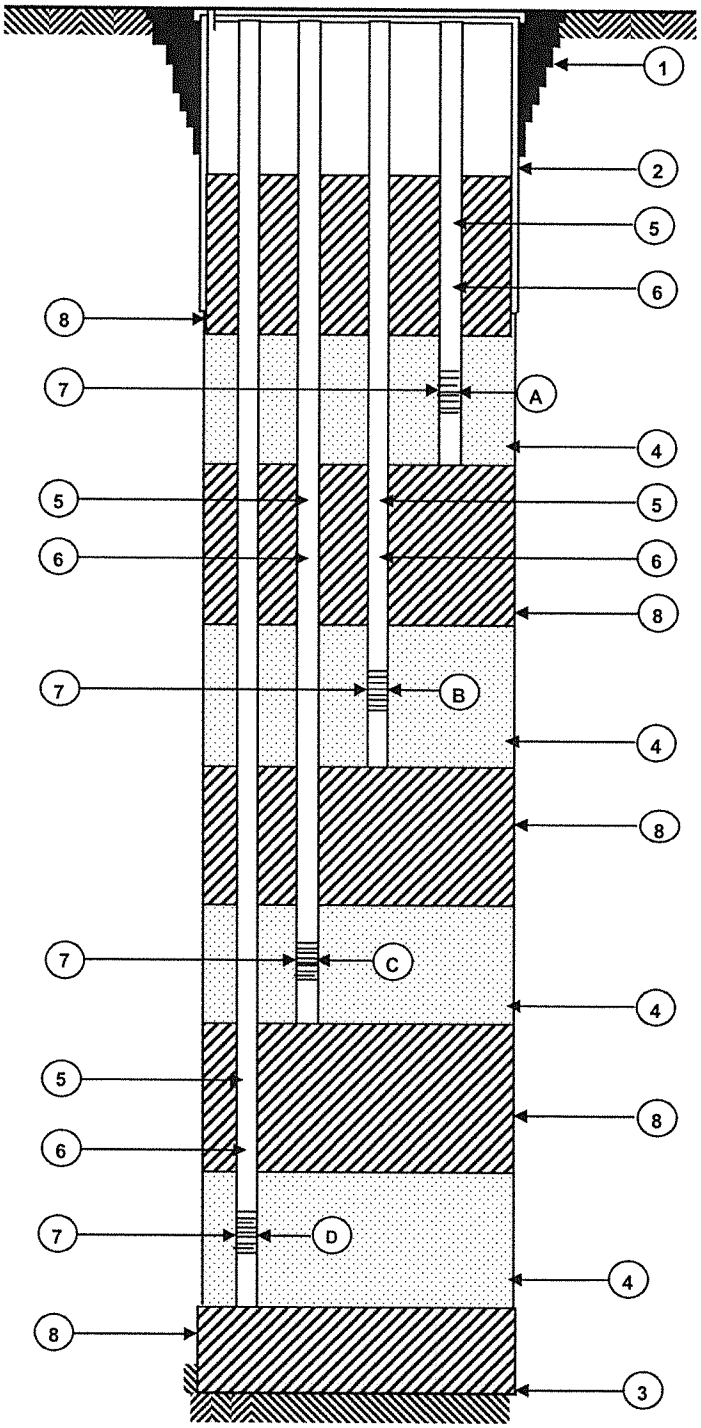
DATUM 1988 USGS

LOCATION SVP-06 (Public Works Yard)

JOB NUMBER 60697537

BORING NUMBER SVP-06

INSTALLATION DATE 12/14/22



VAPOR MONITORING PORT INSTALLATION DETAILS

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
~~A~~					~~0.5~~	~~0.5~~	~~0.010~~
B	11	9.5	10.5	10.0	0.5	0.5	0.010
C	21	19.5	20.5	20.0	0.5	0.5	0.010
D	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL stainless steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

URS Corporation

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-07

Starting Date: 12/14/22
Completion Date: 12/14/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed to 10.5' bgs to clear utilities Encountered metal rod at an angle at 5' bgs. Offset borehole to 2' west. Suspect old powerline anchor.
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0					
		66		1.1			SM	Loose, dry, yellowish brown (10 YR - 5/6), fine to medium grained SAND (SM) with silt	Sample SVP07-10-121422 @1355 Sample SVP07-10-121422-DUP Begin geoprobe
				1.5					
				1.0				Few thin orange to brown silty bands	
15				1.6					
		90		1.9				Many thin black to dark brown silty bands for 3"	
				1.6					
				1.1			SW	Becomes brown (10 YR - 5/3) SAND (SW) with trace silt	
20				1.5					Sample SVP07-20-121422 @1430
		100		1.3			CL	Very soft, moist, brown (10 YR - 5/3), medium plasticity silty CLAY (CL) with trace fine sand for 8" Thin red banding of silty sand for 2"	
				1.3			SW	Loose, dry, brown (10 YR - 5/3), fine to medium grained SAND (SW) with trace silt and few thin orange to brown silty bands	
		90		1.3					

Completion Depth: 33.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-07

Starting Date: 12/14/22
Completion Date: 12/14/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		1.8 1.0 1.8				SAME: Loose, dry, brown (10 YR - 5/3), fine to medium grained SAND (SW) with trace silt and few thin orange to brown silty bands Few thin silty bands become dark brown to black	
30		80		1.8 1.3 1.8 1.1			SW	Becomes yellowish brown (10 YR - 5/6) with thin orange to brown silty bands Silty bands become dark brown to black	Sample SVP07-30-121422 @1450
35								Bottom of boring at 33' bgs	Reference well construction log for SVP-07
40									
45									

Completion Depth: 33.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

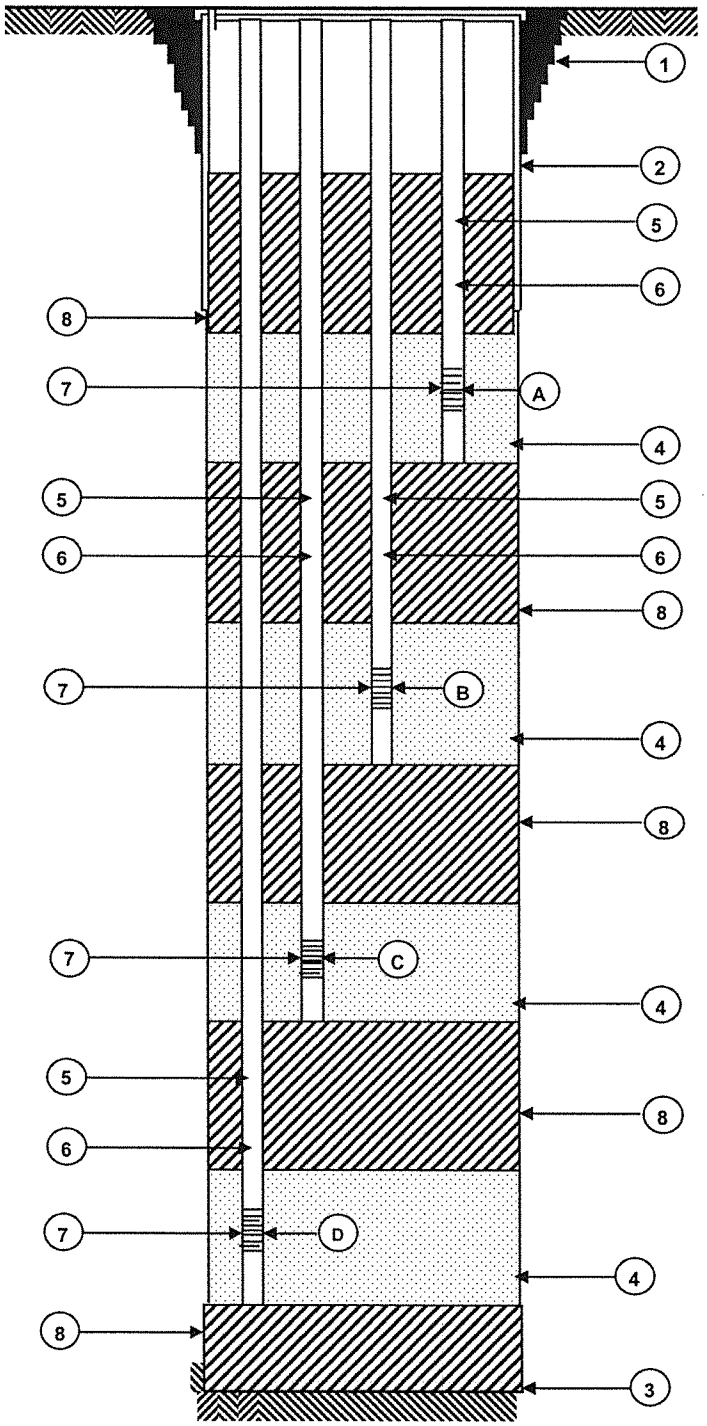
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-07

DATUM 1988 USGS INSTALLATION DATE 12/15/22

LOCATION SVP-07 (Public Works Yard)



VAPOR MONITORING PORT INSTALLATION DETAILS

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
~~A~~					0.5	0.5	0.010
B	11	9.5	10.5	10.0	0.5	0.5	0.010
C	21	19.5	20.5	20.0	0.5	0.5	0.010
D	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 33 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL stainless steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

URS Corporation

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-08

Starting Date: 1/6/23
Completion Date: 1/9/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0					Air knifed/Hand Augered to 9.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0				Loose, dry, yellowish red (5 YR - 5/6), fine to medium grained SAND (SP) with trace silt	
10		66		0.0				Becomes yellowish brown (10 YR - 5/4)	Sample SVP08-10-010623 @0910
				0.0					Begin geoprobe
				0.0					
				0.0					
15		90		0.0					
				0.0			SP	Appearance of thin brown silty banding with few black to brown bands occasionally	
				0.0					
				0.0					
20		90		0.0					Sample SVP08-20-010923 @1205
				0.0				Becomes brown (10 YR - 5/3) with few thin black to dark brown silty bands	
				0.0				2" of thin black to dark brown silty bands	
		90		0.0				Becomes yellowish brown (10 YR - 5/6) with few thin orange/brown to black/brown silty bands	

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-08

Starting Date: 1/6/23
Completion Date: 1/9/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.0 0.0 0.0				SAME: Loose, dry, yellowish brown (10 YR - 5/6), fine to medium grained SAND (SP) with trace silt and few thin orange/brown to black/brown silty bands	
		83		0.0 0.0 0.0			SP	Becomes light brownish gray (10 YR - 6/2) with many black to dark brown silty bands for 6" Silty bands become rare for 6" Becomes pale brown (10 YR - 6/3) with few brown silty bands for 6" Becomes yellowish brown (10 YR - 5/4)	Sample SVP08-30-010923 @1220
30								Bottom of boring at 31' bgs	Reference well construction log for SVP-08
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

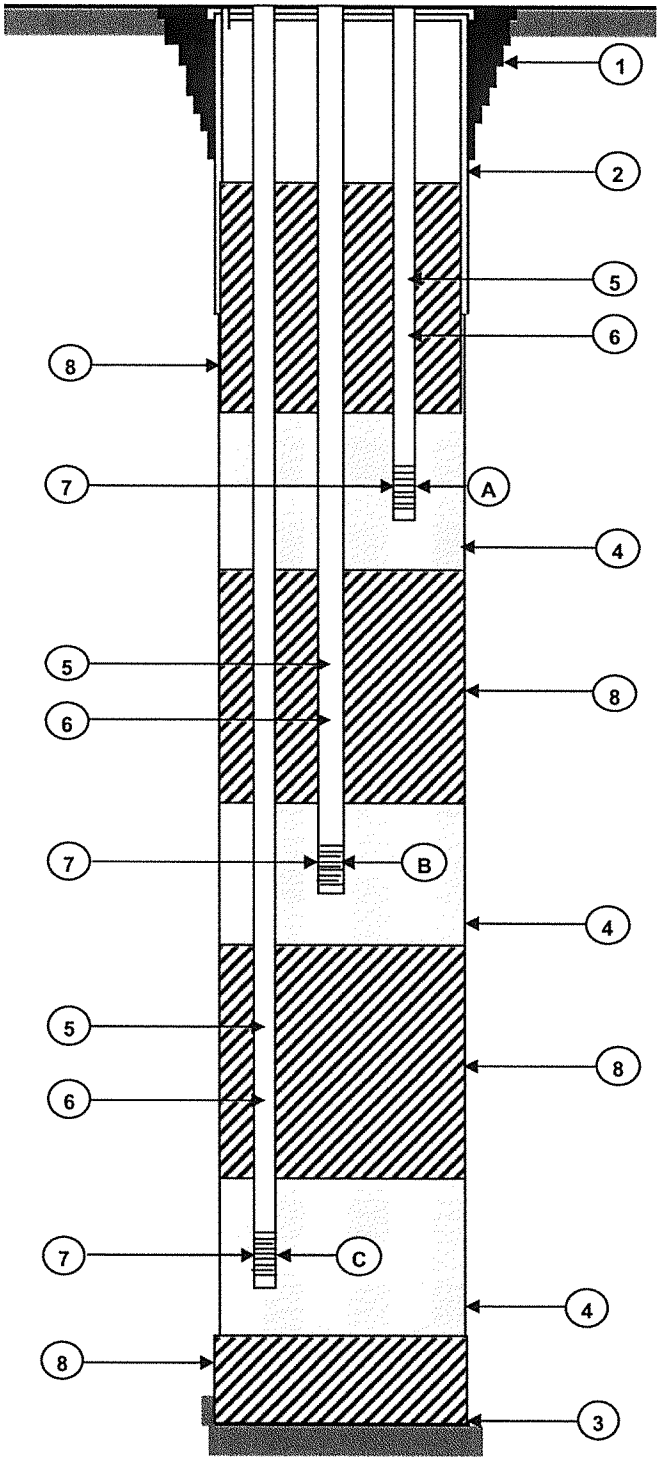
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-08

DATUM 1988 USGS INSTALLATION DATE 1/6/23 - 1/9/23

LOCATION 8th St. Roxana, IL



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11.0	9.5	10.5	10.0	0.5	0.5	0.010
B	21.0	19.5	20.5	20.0	0.5	0.5	0.010
C	31.0	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type ~~#0~~

5 RISER MATERIAL Stainless steel

6 RISER DIAMETER 1/8 OD (0.125) INCHES

7 SCREEN MATERIAL Stainless steel

8 TYPE OF SEAL Bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-09

Starting Date: 1/6/23
Completion Date: 1/9/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed/Hand Augered to 9.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10		33		0.0				Loose, dry, yellowish red (5 YR - 5/6), very fine to medium grained SAND (SP) with trace silt	Begin geoprobe Sample SVP09-10-010623 @0920
				0.0				Becomes yellowish brown (10 YR - 5.6)	
15		90		0.0			SP	Appearance of brown to orange silty banding	
				0.0					
				0.0					
				0.0				Silty bands grade out	
20		90		0.0					Sample SVP09-20-010623 @1410 Sample SVP09-20-010623-DUP
				0.0					
		100		0.0					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-09

Starting Date: 1/6/23
Completion Date: 1/9/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		100		0.0 0.0			SP	SAME: Loose, dry, yellowish brown (10 YR - 5.6), very fine to medium grained SAND (SP) with trace silt 1" black to dark brown silty banding	
								Dark brown silty banding	
30		66						Becomes grayish brown (10 YR - 5/2) with 3" of black silty banding Banding becomes orange to brown	Sample SVP09-30-010623 @1425
								Bottom of boring at 31' bgs	Reference well construction log for SVP-09
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

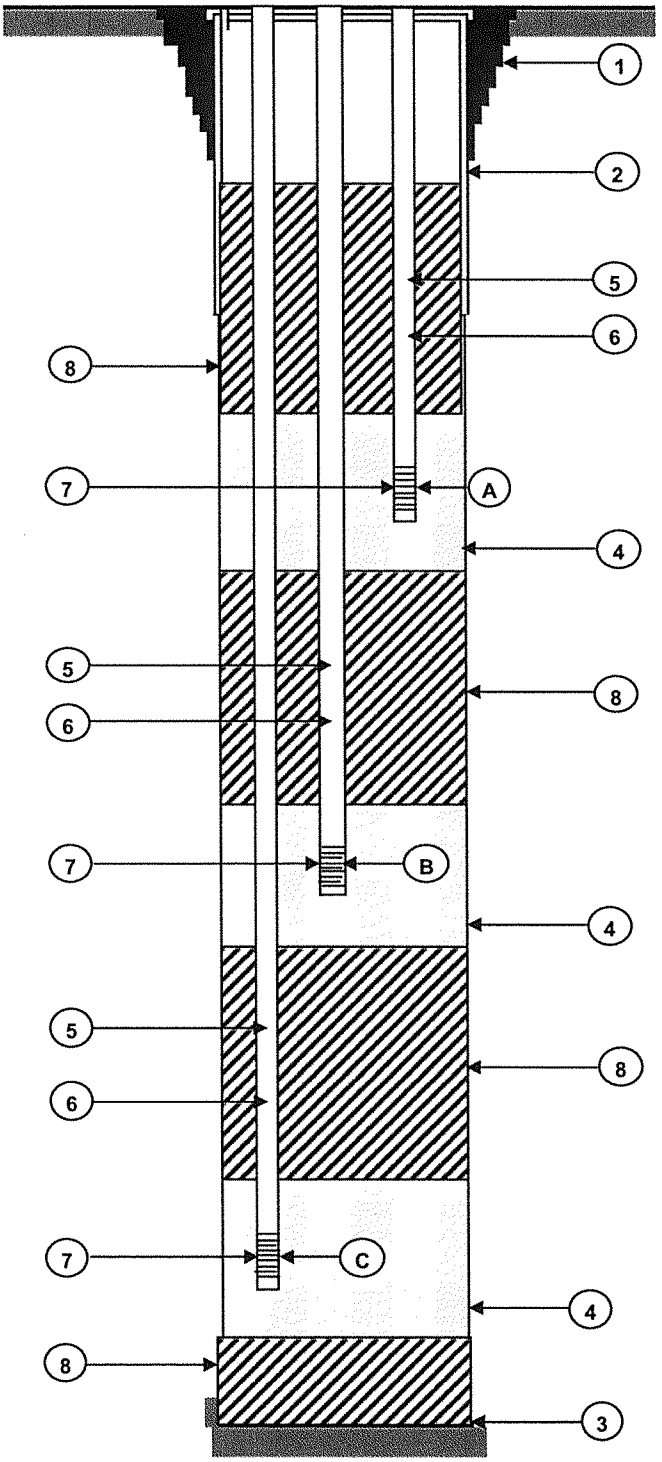
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-09

DATUM 1988 USGS INSTALLATION DATE 1/6/23 - 1/9/23

LOCATION 8th St. Roxana IL



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11.0	9.5	10.5	10.0	0.5	0.5	0.010
B	21.0	19.5	20.5	20.0	0.5	0.5	0.010
C	31.0	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL Stainless Steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL Bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-10

Starting Date: 1/4/23
Completion Date: 1/4/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.0					Air knifed/Hand Augered to 11' bgs to clear utilities
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0			SM	Loose, dry, reddish brown (5 YR - 4/4), fine grained, well sorted silty SAND (SM)	Sample SVP10-10-010423 @1010 Sample SVP10-10-010423-DUP
				0.0					Begin geoprobe
		100		0.0					
				0.0				Loose, dry, yellowish red (5 YR - 4/6), fine to medium grained, poorly graded SAND (SP) with silt	
				0.0					
15		100		0.0				Becomes light reddish brown (5 YR - 6/4)	
				0.0					
				0.0				6" of black 1/8" banding	
				0.0			SP	Becomes reddish brown (5 YR - 5/4) with trace silt	
20		100		0.0					Sample SVP10-20-010423 @1040
				0.1					
				0.0					
		90		0.0					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-10

Starting Date: 1/4/23
Completion Date: 1/4/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.0 0.0 0.0			SP	SAME: Loose, dry, reddish brown (5 YR - 5/4), fine to medium grained, poorly graded SAND (SP) with trace silt Becomes grayish brown (10 YR - 5/2) for 6"	
		100		0.0 0.0 0.0			SW	From 29'-31', loose, dry, grayish brown (10 YR - 5/2), very fine to fine grained, poorly sorted SAND (SW) with silt and 1/16" to 1/8" brown to black banding	Sample SVP10-30-010423 @1050
30								Bottom of boring at 31' bgs	Reference well construction log for SVP-10
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

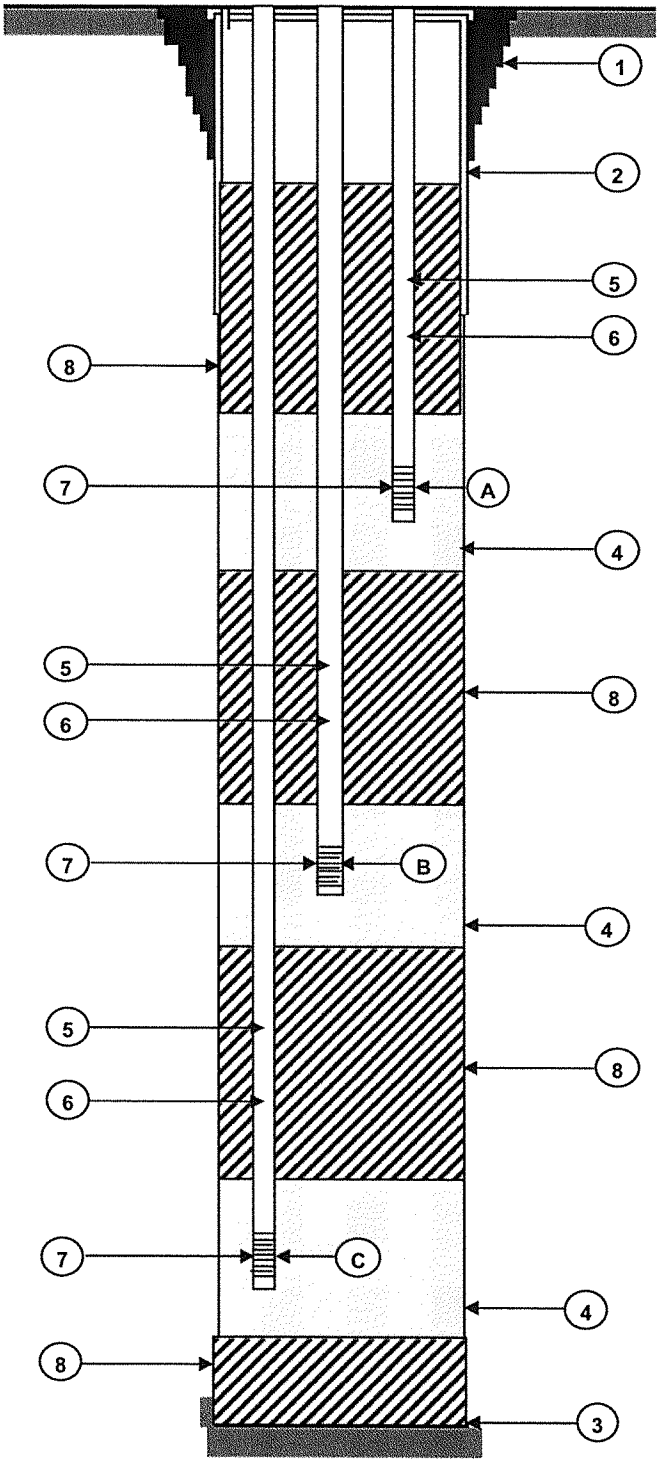
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-10

DATUM 1988 USGS INSTALLATION DATE 1/4/23

LOCATION 9th St. Roxana IL



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11	9.5	10.5	10.0	0.5	0.5	0.010
B	21	19.5	20.5	20.0	0.5	0.5	0.010
C	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.25 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL Bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-11

Starting Date: 1/3/23
Completion Date: 1/4/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed/Hand Augered to 9.5' bgs to clear utilities
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10		100		0.0			SP	Loose, dry, reddish yellow (5 YR - 6/6), very fine to medium grained, poorly sorted SAND (SP) with silt	Begin geoprobe Sample SVP11-10-010323 @1340
15		90		0.0			SM	Loose, dry, reddish yellow (7.5 YR - 6/6), very fine to fine grained silty SAND (SM)	
							SP	Becomes SAND (SP) with silt	
20		100		0.0					Sample SVP11-20-010323 @1410 Sample SVP11-20-010323-DUP
		100		0.0					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-11

Starting Date: 1/3/23
Completion Date: 1/4/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		100		0.0			SP	SAME: Loose, dry, reddish yellow (7.5 YR - 6/6), SAND (SP) with silt	
30		83		0.0				Becomes layered with thin black to dark brown silty bands for 1'	Sample SVP11-30-010323 @1425
								Bottom of boring at 31' bgs	Reference well construction log for SVP-11
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

AECOM

USC based on field visual observations

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

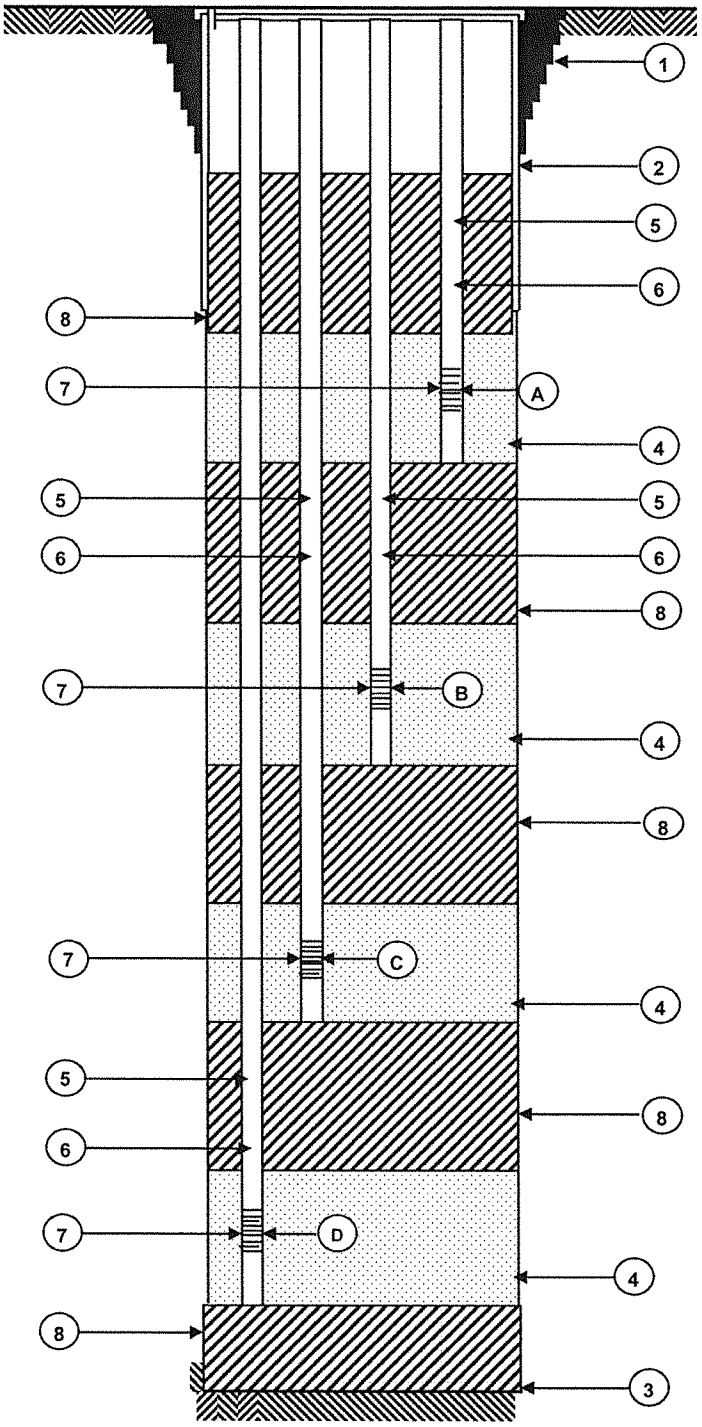
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-11

DATUM 1988 USGS INSTALLATION DATE 1/3/23 - 1/4/23

LOCATION 8th St Roxana IL



VAPOR MONITORING PORT INSTALLATION DETAILS

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A					0.5	0.5	0.010
B	11.0	9.5	10.5	10.0	0.5	0.5	0.010
C	21.0	19.5	20.5	20.0	0.5	0.5	0.010
D	31.0	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type # 0

5 RISER MATERIAL Stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL Bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

URS Corporation

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-12

Starting Date: 1/3/23
Completion Date: 1/3/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					Air knifed/Hand Augered to 10.5' bgs to clear utilities
10		100		0.0 0.0 0.0			SP	Loose, dry, reddish brown (5 YR - 5/4), very fine to medium grained SAND (SP) with silt 4" lense of soft, dry, yellowish red (5 YR - 4/6) silt with sand	Sample SVP12-10-010323 @0855 Sample SVP12-10-010323-EB @0900 Begin geoprobe
15		80		0.0 0.0 0.0 0.0				Loose, dry, reddish brown (5 YR - 5/4), very fine to medium grained SAND (SP) with trace silt	
20		90		0.0 0.0 0.0 0.0					Sample SVP12-20-010323 @0935
		90		0.0				Loose, dry, yellowish red (5 YR - 5/6), fine to coarse grained, poorly graded SAND (SP) with silt	

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-12

Starting Date: 1/3/23
Completion Date: 1/3/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		90		0.0 0.0 0.0			SP	SAME: Loose, dry, yellowish red (5 YR - 5/6), fine to coarse grained, poorly graded SAND (SP) with silt	
30		100		0.0 0.0 0.0					Sample SVP12-30-010323 @0945
								Bottom of boring at 31' bgs	Reference well construction log for SVP-12
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

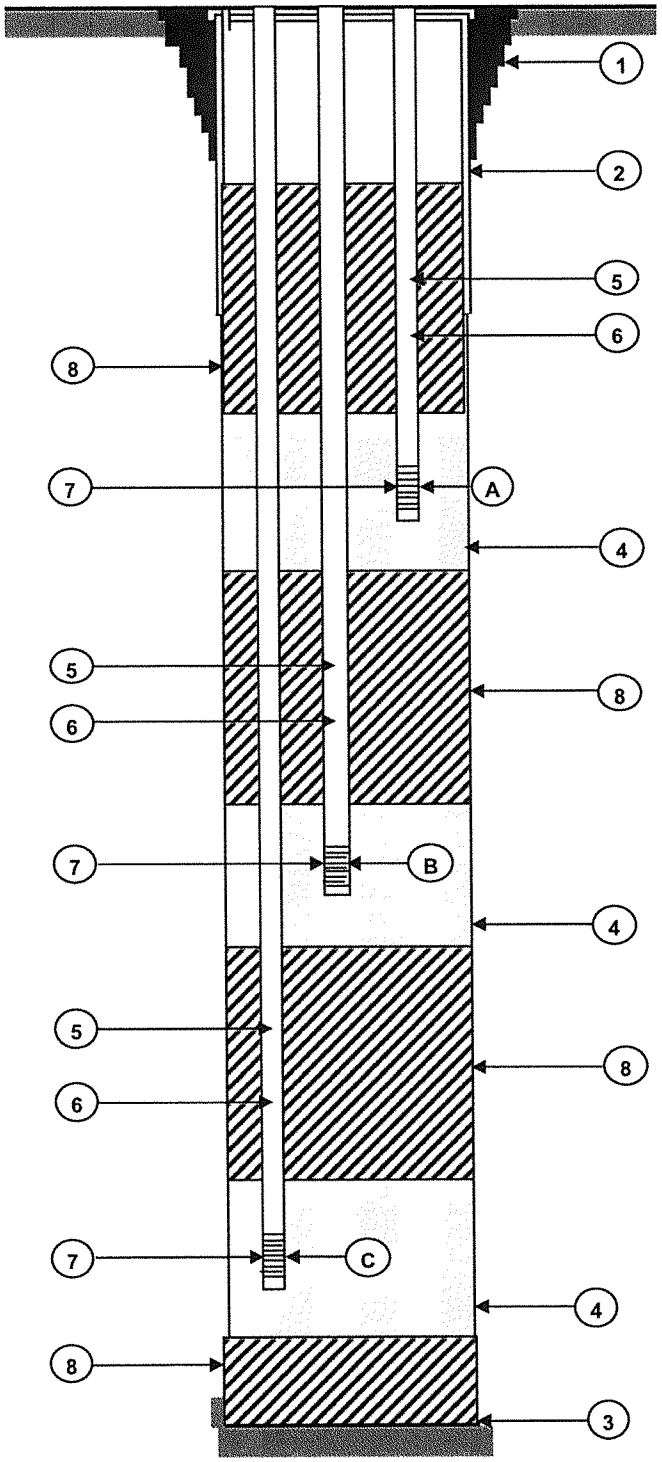
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-12

DATUM 1988 USGS INSTALLATION DATE 1/3/2023

LOCATION 8th St, Roxana IL



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11	9.5	10.5	10.0	0.5	0.5	0.010
B	21	19.5	20.5	20.0	0.5	0.5	0.010
C	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL stainless steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-13

Starting Date: 12/16/22
Completion Date: 12/16/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
0				0.0					Air knifed to 10.5' bgs to clear utilities Cut through 6" asphalt before beginning air knifing
				0.0					
				0.0					
				0.0					
				0.0					
5				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.2			SW	Loose, dry, yellowish brown (10 YR - 5/4), fine to medium grained SAND (SW) with trace silt	Sample SVP13-10-121622 @0845 Begin geoprobe
		100		0.1					
				0.2			CL	2" of dry, soft, low plasticity silty CLAY (CL) with fine to medium grained sand	
				0.1			SW	Becomes SAND (SW) Becomes brown (10 YR - 5/3)	
15				0.3					
		90		0.3					
				0.1			CL	6" of soft, moist, low plasticity silty CLAY (CL) with fine to medium grained sand	
							SW	Becomes yellowish brown (10 YR - 5/6) SAND (SW) with gray to yellow to orange to brown banding	
				0.2					
20				0.2					Sample SVP13-20-121622 @0920
		90		0.2					
				0.1					
							SC	Becomes interlayered with some silty clay bands, soft to medium stiff, and low to medium plasticity	
		90		0.2					

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-13

Starting Date: 12/16/22
Completion Date: 12/16/22
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
				0.2			SC	SAME: SAND (SC) interlayered with some silty clay bands, soft to medium stiff, and low to medium plasticity	
		90		0.2					
				0.2				Becomes SAND (SW) when silty clay layers grade out	
							SW		
				0.2					
		83		0.2					
30				0.2			CL	3" of dry, soft to medium stiff, low plasticity silty CLAY (CL) with trace fine sand and orange to brown to black banding	Sample SVP13-30-121622 @0935 Sample SVP13-30-121622-DUP
							SC	Becomes SAND (SC) interlayered with some silty clay bands	
								Bottom of boring at 31' bgs	Reference well construction log for SVP-13
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: M. Massa, B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

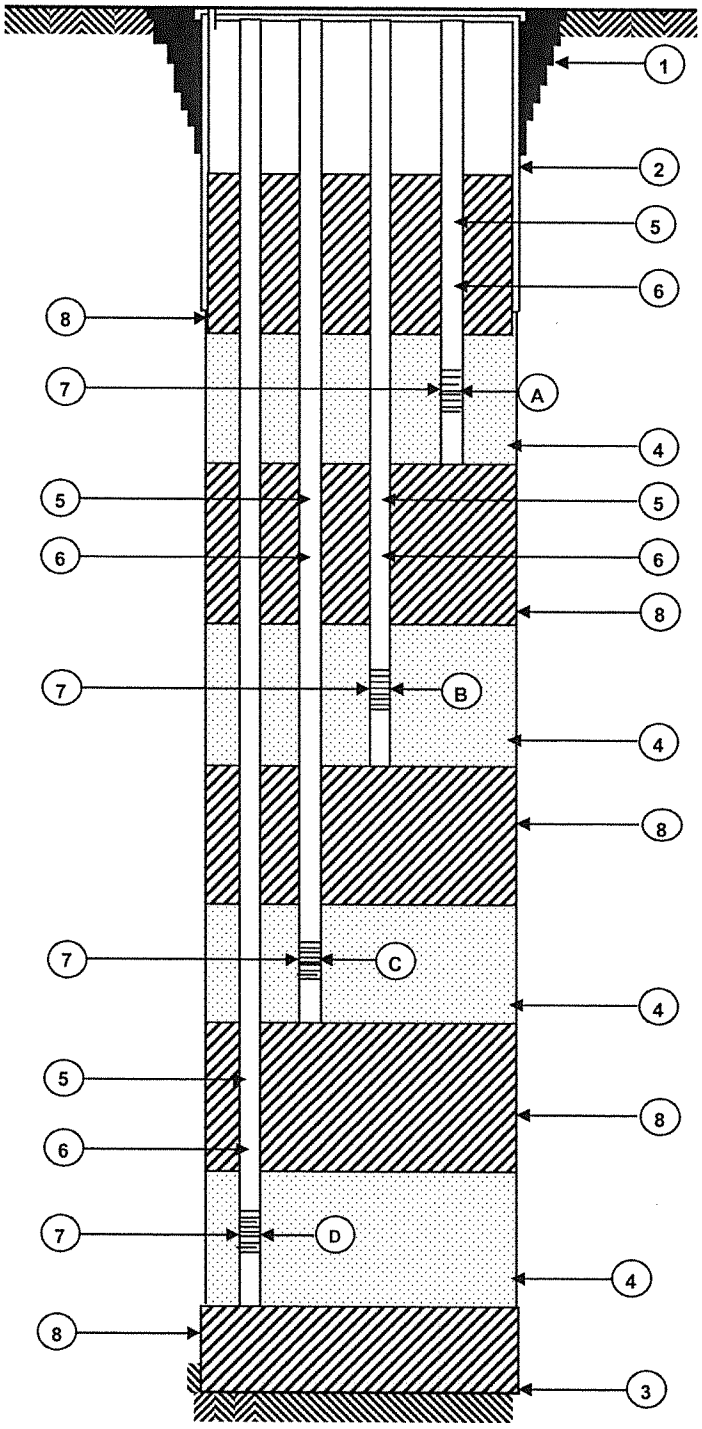
VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____ JOB NUMBER 60697537

TOP OF INNER WELL CASING ELEVATION NA BORING NUMBER SVP-13

DATUM 1988 USGS INSTALLATION DATE 12/16/22 -

LOCATION SVP-13 (8th street)



VAPOR MONITORING PORT INSTALLATION DETAILS

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A					0.5	0.5	0.010
B	11	9.5	10.5	10.0	0.5	0.5	0.010
C	21	19.5	20.5	20.0	0.5	0.5	0.010
D	31	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type #0

5 RISER MATERIAL Stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

URS Corporation

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW SVP-

LOG OF BORING
SVP-14

Starting Date: 1/5/23
Completion Date: 1/5/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A Lat: N/A
E: (Y): N/A Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
5				0.0					Air knifed/Hand augered to 11' bgs to clear utilities First Air knife encountered abandoned water main around 2.5'-3' bgs. Notified PM, safety officer, and village of Roxana mayor. Boring was offset 20' and was successful.
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
				0.0					
10				0.0				Loose, dry, dark brown (7.5 YR - 3/4), fine to medium grained, poorly sorted SAND (SM) with silt	Sample SVP14-10-010523 @1020
				0.0					
		100		0.0				Becomes yellowish red (5 YR - 5/6)	Begin geoprobe
				0.0					
				0.0					
15				0.0				Loose, moist, yellowish red (5 YR - 5/6), very fine to fine grained silty SAND (SM)	
		66		0.0					
				0.0			SM		
				0.0					
20				0.0				Loose, moist, reddish gray (5 YR - 5/2), fine to medium grained SAND (SM) with trace silt	Sample SVP14-20-010523 @1055
		86		0.0					
				0.0					
		86		0.0			SP	Loose, moist, reddish brown (5 YR - 5/3), fine to coarse grained SAND (SP) with trace silt	

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

AECOM (ENVIRON) LOG (EPA FORMAT) L:\DCS\PROJECTS\ENV\SHELL\SHELL 2023\ROXANA 2023\400 TECHNICAL (TECH)\440 FIELD AND LABORATORY DATA\PWY SEE FIELD PAPERWORK\BORING LOGS\COURTNEY (NOT REVIEWED YET)\SHELL_RPW_SVP-

LOG OF BORING
SVP-14

Starting Date: 1/5/23
Completion Date: 1/5/23
Casing Elevation: Not Installed
Ground Elevation: NAVD 88

Quadrangle
Sec:34.00
T:5N
R:9W
UTM (or State Plane) Coord
N: (X): N/A
E: (Y): N/A
Lat: N/A
Long: N/A

Depth In feet	Inches Driven	Inches Recovered	Blow Counts	PID (ppm)	Sampler Graphic	Symbol	USCS	DESCRIPTION	NOTES
		86		0.0 0.0 0.0			SP	SAME: Loose, moist, reddish brown (5 YR - 5/3), fine to coarse grained SAND (SP) with trace silt	
				0.0				Becomes wetter	
		83		0.0 0.0			CL	Becomes silty CLAY (CL) for 6"	
30				0.0			SP	Loose, moist, fine to coarse grained SAND (SP) with trace silt	Sample SVP14-30-010523 @1105
								Bottom of boring at 31' bgs	Reference well construction log for SVP-14
35									
40									
45									

Completion Depth: 31.0 Ft bgs
Project No.: 60697537
Project Name: Shell - Roxana Public Works
Drilling Contractor: Roberts Environmental Drilling Inc.
Driller Name: M. Kwiatkowski
Drilling Method: Direct Push
Drill Rig Type: Geoprobe 8040DT
Logged by: B. Howell
County: Madison
Site ID No.: 1191150002
Federal ID No.: ILD080012305

Water Depth: _____ ft., After _____ hrs.
Water Depth: _____ ft., After _____ hrs.
▽ Water level at time of drilling
▼ Water level after drilling
ATD - At time of drilling
NE - None Encountered
NA - Not Applicable

Geoprobe
Air Knife
Hand Auger
Sonic
Splitspoon Sampler
Hollow Stem Auger-Soil samples not collected

AECOM

USC based on field visual observations

VAPOR MONITORING POINT CONSTRUCTION DIAGRAM

GROUND SURFACE ELEVATION (FEET) _____

TOP OF INNER WELL CASING ELEVATION NA

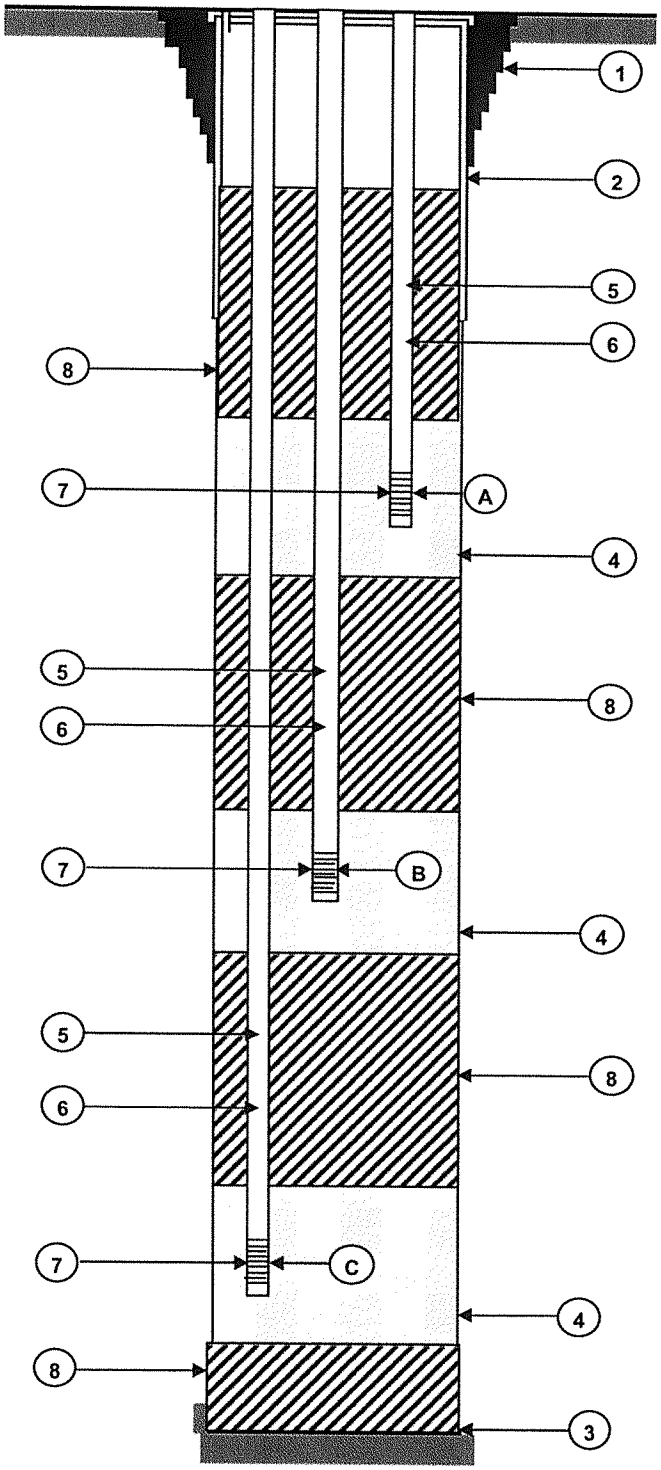
DATUM 1988 USGS

LOCATION 8th St. Rotana

JOB NUMBER SUP-14 (B44)

BORING NUMBER 60697537

INSTALLATION DATE 1/5/23



VAPOR MONITORING PORT INSTALLATION

SCREEN	DEPTH TO BOTTOM OF SAND (FEET*)	DEPTH TO TOP OF SAND (FEET*)	DEPTH TO BOTTOM OF SCREEN (FEET*)	DEPTH TO TOP OF SCREEN (FEET*)	LENGTH OF SCREEN (FEET)	DIAMETER OF SCREEN (INCHES)	SLOT SIZE (INCHES)
A	11.0	9.5	10.5	10.0	0.5	0.5	0.010
B	21.0	19.5	20.5	20.0	0.5	0.5	0.010
C	31.0	29.5	30.5	30.0	0.5	0.5	0.010

1 CONCRETE CAP? (YES) NO (CIRCLE ONE)

2 BOREHOLE DIAMETER 4 INCHES

3 TOTAL DEPTH OF BOREHOLE 31 FEET*

4 TYPE OF PACK AROUND SCREEN Type 6

5 RISER MATERIAL Stainless steel

6 RISER DIAMETER 0.125 INCHES

7 SCREEN MATERIAL Stainless Steel

8 TYPE OF SEAL Bentonite

* (DEPTH FROM GROUND SURFACE)

NOTE: DRAWING NOT TO SCALE

AECOM

Appendix C – Equipment Cut Sheets

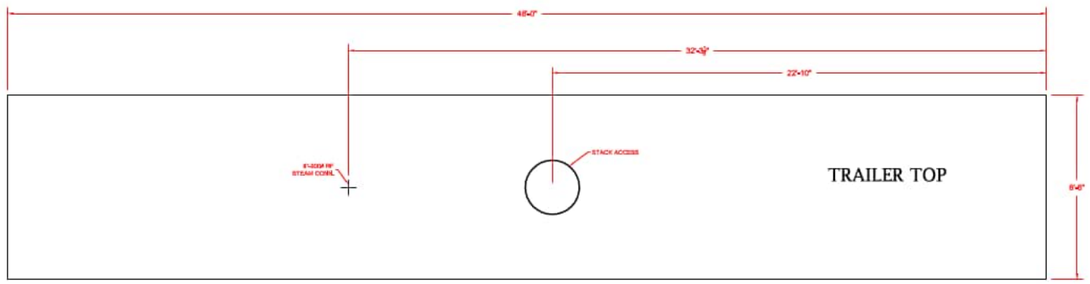
ASSUMPTIONS

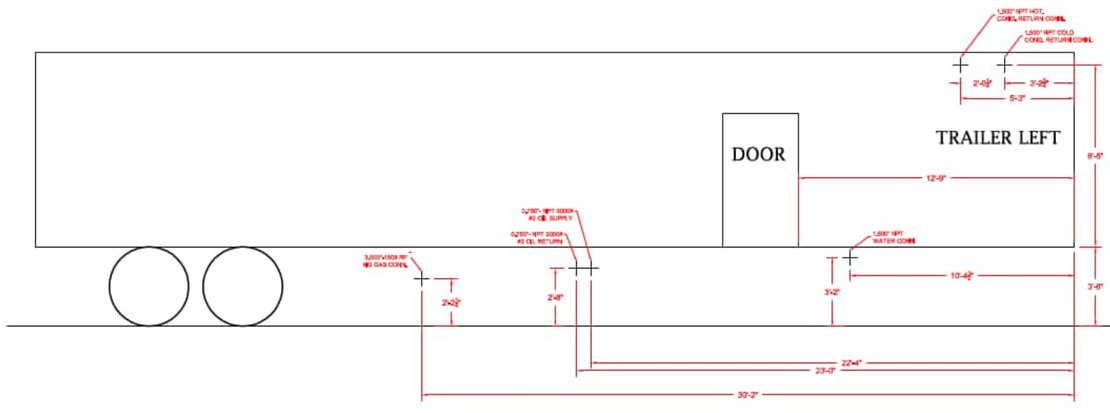
Steam Pressure	125	PSI-g	Kinematic Viscosity	2.08E-03	ft^2/min	Steam Flow Rate, Total	10090.95 lb/hr
Steam Pressure	139.6959	PSI-a	Density	3.10E-01	lb/ft3	Steam Flow Rate, Side B	4111.127542 lb/hr
Dynamic Viscosity	1.08E-05	lb/(ft*s)	Specific Volume	3.23E+00	ft^3/lb	Steam Flow Rate, Per Injector	124.5796225 lb/hr

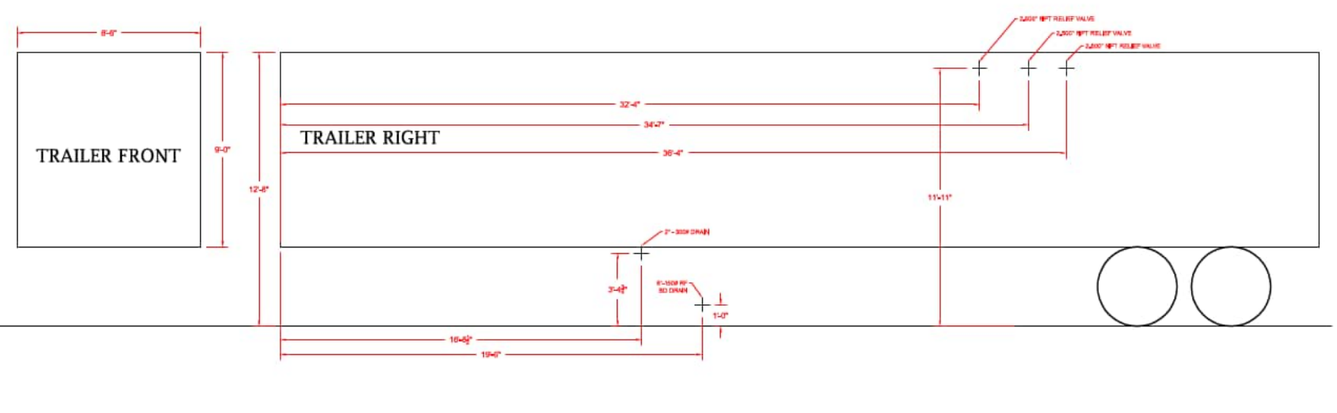
NODE FROM	NODE TO	#	COMPONENT TYPE	FLOW RATE (lb/h)	COMPONENT INSIDE DIAMETER (INCHES)	CROSS-SECTIONAL VELOCITY (FT/MIN)	CROSS-SECTIONAL VELOCITY (FT/S)	VELOCITY PRESSURE (" OF H20)	PIPE LENGTH (FEET)	FITTING LOSS COEFFICIENT Co	REYNOLD'S NUMBER (DIM)	ROUGHNESS E	FRICTION FACTOR (DIM)	PIPING PRESSURE LOSSES (" OF H20)	FITTING PRESSURE LOSSES (" OF H20)	COMBINED PRESSURE LOSSES (" OF H20)	SECTIONAL PRESSURE LOSSES (" OF H20)
		0	BOILER	10090.95													
		1	MAIN, B SIDE	4111.13	3	4508.606404	75.14344007	5.229604789	20.00		540847.32	0.00015	0.010536549	4.408159066	0	4.408159066	
		2	90 deg ELBOW	4111.13	3	4508.606404	75.14344007	5.229604789		0.3	540847.32	0.00015	0.010536549	0	1.568881437	1.568881437	
		3	MAIN, B SIDE	4111.13	3	4508.606404	75.14344007	5.229604789	40.00		540847.32	0.00015	0.010536549	8.816318132	0	8.816318132	
		4	TEE, BRANCHED	4111.13	3	4508.606404	75.14344007	5.229604789		1	540847.32	0.00050	0.013223022	0	5.229604789	5.229604789	20.02296342
		5	MAIN	3363.65	2	8299.934516	138.3322419	17.7228497	20.00		663767.16	0.00015	0.011341752	24.12098007	0	24.12098007	
			90 deg ELBOW	3363.65	2	8299.934516	138.3322419	17.7228497		0.3	663767.16	0.00015	0.011341752	0	5.31685491	5.31685491	
		6	MAIN	3363.65	2	8299.934516	138.3322419	17.7228497	3.33		663767.16	0.00015	0.011341752	4.020159326	0	4.020159326	
			TEE, LATERAL	3363.65	2	8299.934516	138.3322419	17.7228497		0.2	663767.16	0.00015	0.011341752	0	3.54456994	3.54456994	
		7	MAIN	3239.07	2	7992.529534	133.2088256	16.4343572	23.33		639183.20	0.00015	0.011341752	26.09521663	0	26.09521663	
			TEE, LATERAL	3239.07	2	7992.529534	133.2088256	16.4343572		0.2	639183.20	0.00015	0.011341752	0	3.28687144	3.28687144	
		8	MAIN	3114.49	2	7685.124552	128.0854092	15.19448705	6.67		614599.23	0.00015	0.011341752	6.893283511	0	6.893283511	
			TEE, LATERAL	3114.49	2	7685.124552	128.0854092	15.19448705		0.2	614599.23	0.00015	0.011341752	0	3.038897411	3.038897411	
		9	MAIN	2989.91	2	7377.71957	122.9619928	14.00323927	10.00		590015.26	0.00015	0.011341752	9.529276079	0	9.529276079	
			TEE, LATERAL	2989.91	2	7377.71957	122.9619928	14.00323927		0.2	590015.26	0.00015	0.011341752	0	2.800647854	2.800647854	
		10	MAIN	2865.33	2	7070.314588	117.8385765	12.86061384	6.67		565431.29	0.00015	0.011341752	5.834475689	0	5.834475689	
			TEE, LATERAL	2865.33	2	7070.314588	117.8385765	12.86061384		0.2	565431.29	0.00015	0.011341752	0	2.572122769	2.572122769	
		11	MAIN	2740.75	2	6762.909606	112.7151601	11.76661077	3.33		540847.32	0.00015	0.011341752	2.669076973	0	2.669076973	
			TEE, LATERAL	2740.75	2	6762.909606	112.7151601	11.76661077		0.2	540847.32	0.00015	0.011341752	0	2.353322155	2.353322155	
		12	MAIN	2616.17	2	6455.504624	107.5917437	10.72123007	3.33		516263.35	0.00015	0.011341752	2.431948234	0	2.431948234	
			TEE, LATERAL	2616.17	2	6455.504624	107.5917437	10.72123007		0.2	516263.35	0.00015	0.011341752	0	2.144246013	2.144246013	
		13	MAIN	2491.59	2	6148.099642	102.4683274	9.724471715	3.33		491679.38	0.00015	0.011341752	2.205850724	0	2.205850724	
			90 deg ELBOW	2491.59	2	6148.099642	102.4683274	9.724471715		0.3	491679.38	0.00015	0.011341752	0	2.917341514	2.917341514	
		14	MAIN	2491.59	2	6148.099642	102.4683274	9.724471715	3.33		491679.38	0.00015	0.011341752	2.205850724	0	2.205850724	
			TEE, LATERAL	2491.59	2	6148.099642	102.4683274	9.724471715		0.2	491679.38	0.00015	0.011341752	0	1.944894343	1.944894343	
		15	MAIN	2367.01	2	5840.69466	97.34491099	8.776335722	3.33		467095.41	0.00015	0.011341752	1.990780477	0	1.990780477	
			TEE, LATERAL	2367.01	2	5840.69466	97.34491099	8.776335722		0.2	467095.41	0.00015	0.011341752	0	1.755267144	1.755267144	
		16	MAIN	2242.43	2	5533.289678	92.22149463	7.876822089	3.33		442511.44	0.00015	0.011341752	1.786739247	0	1.786739247	
			TEE, LATERAL	2242.43	2	5533.289678	92.22149463	7.876822089		0.2	442511.44	0.00015	0.011341752	0	1.575364418	1.575364418	
		17	MAIN	2117.85	2	5225.884695	87.09807826	7.025930814	6.67		417927.47	0.00015	0.011341752	3.187454614	0	3.187454614	
			TEE, LATERAL	2117.85	2	5225.884695	87.09807826	7.025930814		0.2	417927.47	0.00015	0.011341752	0	1.405186163	1.405186163	
		18	MAIN	1993.27	2	4918.479713	81.97466189	6.223661897	6.67		393343.50	0.00015	0.011341752	2.823489208	0	2.823489208	
			TEE, LATERAL	1993.27	2	4918.479713	81.97466189	6.223661897		0.2	393343.50	0.00015	0.011341752	0	1.244732379	1.244732379	
		19	MAIN	1868.69	2	4611.074731	76.85124552	5.470015339	10.00		368759.54	0.00015	0.011341752	3.722373468	0	3.722373468	
			TEE, LATERAL	1868.69	2	4611.074731	76.85124552	5.470015339		0.2	368759.54	0.00015	0.011341752	0	1.094003068	1.094003068	
		20	MAIN	1744.11	2	4303.669749	71.72782915	4.76499114	10.00		344175.57	0.00015	0.011341752	3.242600888	0	3.242600888	
			TEE, LATERAL	1744.11	2	4303.669749	71.72782915	4.76499114		0.2	344175.57	0.00015	0.011341752	0	0.952998228	0.952998228	
		21	MAIN	1619.54	2	3996.264767	66.60441279	4.108589299	6.67		319591.60	0.00015	0.011341752	1.863944046	0	1.863944046	
			TEE, LATERAL	1619.54	2	3996.264767	66.60441279	4.108589299		0.2	319591.60	0.00015	0.011341752	0	0.82171786	0.82171786	
		22	MAIN	1494.96	2	3688.859785	61.48099642	3.500809817	13.33		295007.63	0.00015	0.011341752	3.17642536	0	3.17642536	
			TEE, LATERAL	1494.96	2	3688.859785	61.48099642	3.500809817		0.2	295007.63	0.00015	0.011341752	0	0.700161963	0.700161963	
		23	MAIN	1370.38	2	3381.454803	56.35758005	2.941652694	6.67		270423.66	0.00015	0.011341752	1.33453982	0	1.33453982	
			TEE, LATERAL	1370.38	2	3381.454803	56.35758005	2.941652694		0.2	270423.66	0.00015	0.011341752	0	0.588330539	0.588330539	
		24	MAIN	1245.80	2	3074.049821	51.23416368	2.431117929	16.67		245839.69	0.00015	0.011341752	2.757313679	0	2.757313679	
			TEE, LATERAL	1245.80	2	3074.049821	51.23416368	2.431117929		0.2	245839.69	0.00015	0.011341752	0	0.486223586	0.486223586	
		25	MAIN	1121.22	2	2766.644839	46.11074731	1.969205522	6.67		221255.72	0.00015	0.011341752	0.893369623	0	0.893369623	
			TEE, LATERAL	1121.22	2	2766.644839	46.11074731	1.969205522		0.2	221255.72	0.00015	0.011341752	0	0.393841104	0.393841104	
		26	MAIN	996.64	2	2459.239857	40.98733094	1.555915474	3.33		196671.75	0.00015	0.011341752	0.352936116	0	0.352936116	
			TEE, LATERAL	996.64	2	2459.239857	40.98733094	1.555915474		0.2	196671.75	0.00015	0.011341752	0	0.311183095	0.311183095	
		27	MAIN	872.06	2	2151.834875	35.86391458	1.191247785	16.67		172087.78	0.00015	0.011341752	1.351083703	0	1.351083703	
			TEE, LATERAL	872.06	2	2151.834875	35.86391458	1.191247785		0.2	172087.78	0.00015	0.011341752	0	0.238249557	0.238249557	
		28	MAIN	747.48	2	1844.429893	30.74049821	0.875202454	13.33		147503.81	0.00015	0.011341752	0.79410634	0	0.79410634	
			TEE, LATERAL	747.48	2	1844.429893	30.74049821	0.875202454		0.2	147503.81	0.00015	0.011341752	0	0.175040491	0.175040491	
		29	MAIN	622.90	2	1537.02491	25.61708184	0.607779482	3.33		122919.85	0.00015	0.011341752	0.137865684	0	0.137865684	
			TEE, LATERAL	622.90	2	1537.02491	25.61708184	0.607779482		0.2	122919.85	0.00015	0.011341752	0	0.121555896	0.121555896	
		30	MAIN	498.32	2	1229.619928	20.49366547	0.388978869	13.33		98335.88	0.00015	0.011341752	0.352936151	0	0.352936151	
			TEE, LATERAL	498.32	2	1229.619928	20.49366547	0.388978869		0.2	98335.88	0.00015	0.011341752	0	0.077795774	0.077795774	
		31	MAIN	373.74	2	922.2149463	15.3702491	0.218800614	3.33		73751.91	0.00015	0.011341752	0.049631597	0	0.049631597	
			TEE, LATERAL	373.74	2	922.2149463	15.3702491	0.218800614		0.2	73751.91	0.00015	0.011341752	0	0.043760123	0.043760123	
		32	MAIN	249.16	2	614.8099642	10.24683274	0.097244717	6.67		49167.94	0.00015	0.011341752	0.044117019	0	0.044117019	
			TEE, LATERAL	249.16	2	614.8099642	10.24683274	0.097244717		0.2	49167.94	0.00015	0.011341752	0	0.019448943	0.019448943	
		33	MAIN	124.58	2	307.4049821	5.123416368	0.024311179	3.33		24583.97	0.00015	0.011341752	0.005514627	0	0.005514627	
			TEE, LATERAL	124.58	2	307.4049821	5.123416368	0.024311179		0.2	24583.97	0.00015	0.011341752	0	0.004862236	0.004862236	
		##	HOSE TO WELL	124.58	1	1229.619928	20.49366547	0.388978869	20.00		49167.94	0.00022	0.013988041	1.305852548	0	1.305852548	
																	159.1086831
																	179.1316465 IN.H2O
																	6.464979303 PSI

Pw Pb - dP			
Pb	150	125	PSI
dP	6.464979303	6.464979303	PSI
%	4.31%	5.17%	

Max pressure drop	
20	%







Industrial Boiler & Mechanical Company, Inc.
3325 North Hawthorne Street
Chattanooga, TN. 37406

CUSTOMER:

DESCRIPTION:
650HP HURST RENTAL

SCALE:	DRAWN BY:	APPROVED BY:	
NTS	THR	IB&M	
DATE:	DWG NO.	PAGE NO.	REV:
07/06/23	CM1912867	1 OF 1	00

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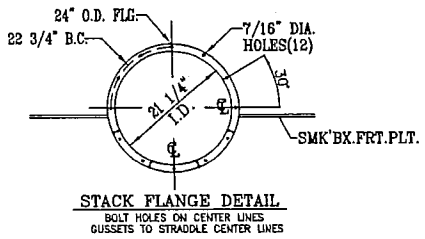
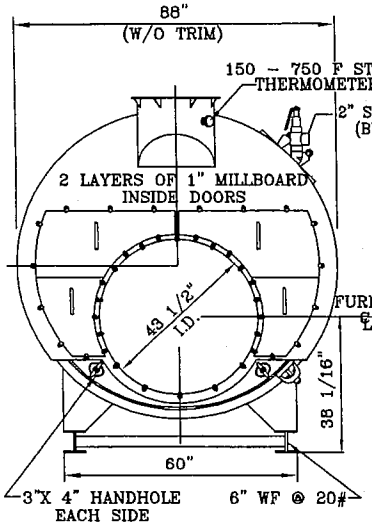
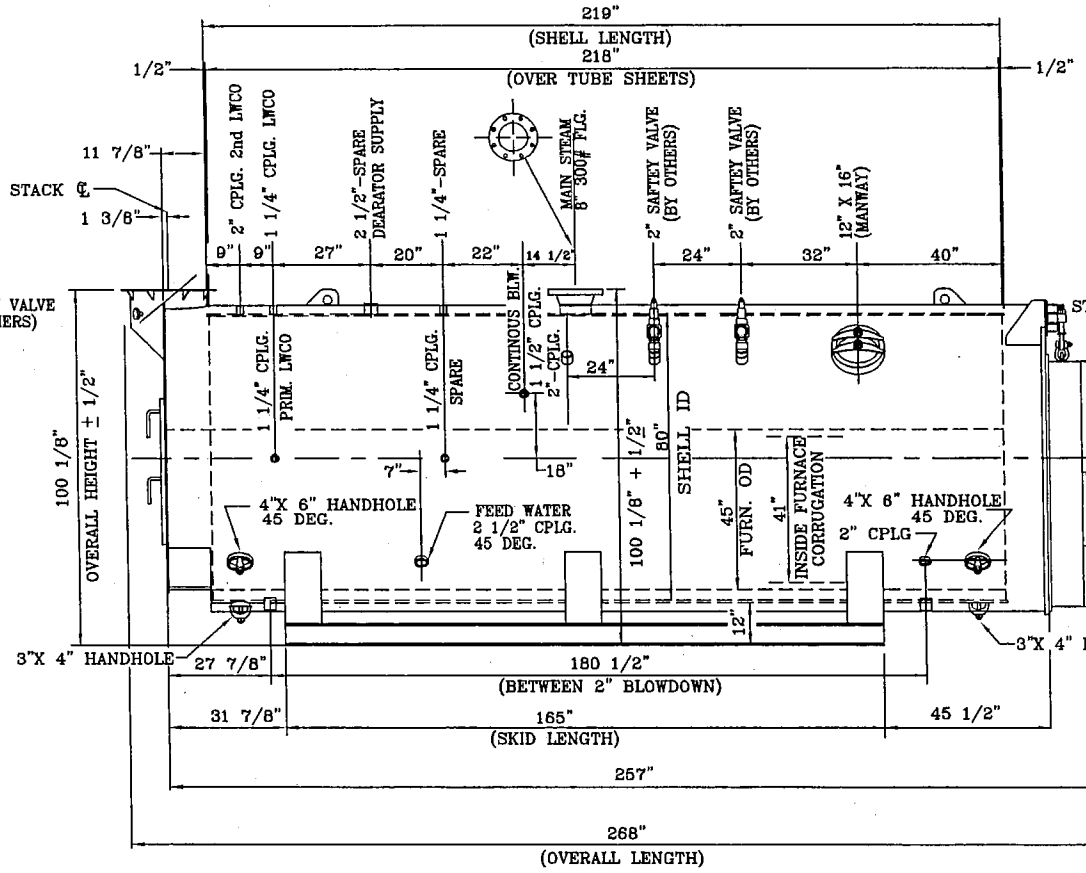


STACK FLANGE DETAIL

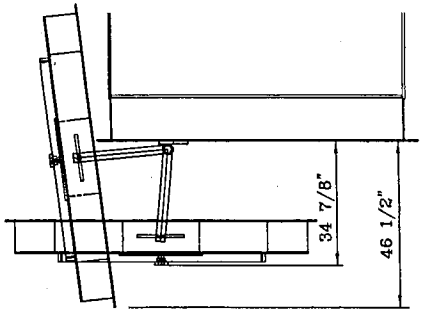
BOLT HOLES ON CENTER LINES
GUSSETS TO STRADDLE CENTER LINES

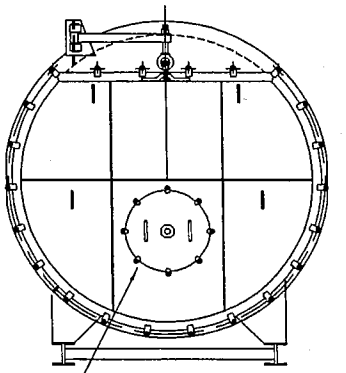


FRONT VIEW



RIGHT SIDE VIEW





NOTE:

JACKETING– 18 GA. (NOT PAINTED)
USE ONLY XID TUBES
SEAL WELD TUBES ON REAR END
B/4 INSULATING, PAINT BOILER SHELL W/RUSTOLEUM
HIGH TEMP RED PRIMER, #4268 W/QUICK DRY PRIMER, RED;
NO OTHER TRIM IS FURNISHED BY HBC;
REAR DOOR REFRACTORY (FURNISHED & INSTALLED BY OTHERS;

BOILER SPECIFICATION CHART			
BUILT TO ASME CODE SECTION I FOR:	250 PSI	FURNACE VOLUME	169.8 CU.FT.
HEATING SURFACE (FIRE SIDE)	1750 SQ. FT.	WATER CAPACITY (OPERATING)	1695 GALS.
FURNANCE OUTSIDE DIA.	43 INCHES	WATER CAPACITY (FLOODED)	2697 GALS.
FURNACE VOLUME W/ T-A-R	194 CU.FT.	WEIGHT W/O TRIM OR BURNER	31500 LBS.

R	BY:	DATE:	CHK'D.	REASON FOR CHANGE

THIS DRAWING IS THE PROPERTY OF HURST BOILER AND WELDING CO., INC AND MAY NOT BE COPIED OR REPRODUCED IN ANY WAY UNLESS AUTHORIZED IN WRITING BY HURST BOILER AND WELDING CO., INC. AND MUST BE RETURNED UPON REQUEST

HURST BOILER and WELDING CO., INC.
P.O. BOX 38, HIGHWAY 319, COOLIDGE, GA. 31738
PHONE: 912-346-3443 FAX: 912-346-3874

650 HP 2 PASS DRY BACK SCOTCH BOILER
250 PSI DESIGN

FOR: CENTRAL BOILER
NATIONWIDE BOILER INC.

SCALE:	DWN. BY:	DATE:	CHK'D. BY:	DRAWING NO.:
NTS 32	JGF	3/22/11	JWT	1100051/52

DCA125SSIU4F

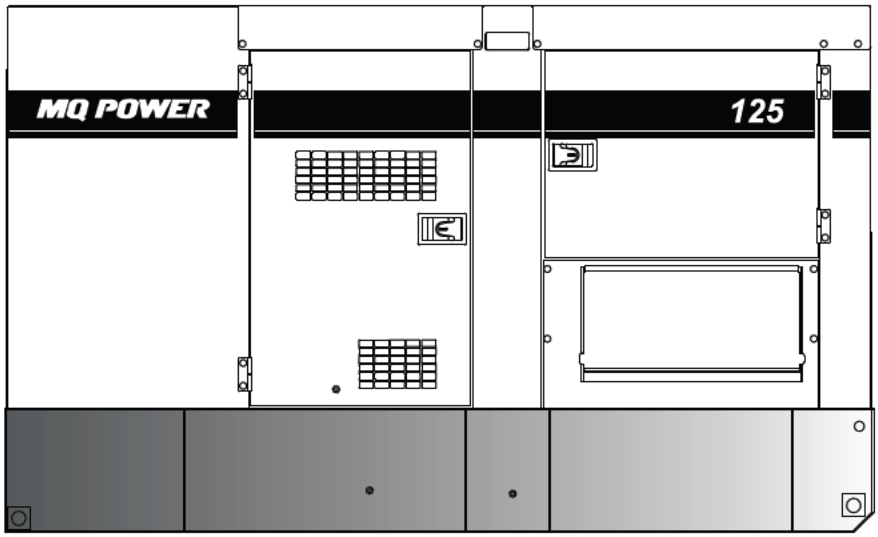
Generator

WhisperWatt™

Prime Rating — 100kW (125kVA)

Standby Rating — 110kW (137.5kVA)

3-Phase, 60 Hertz, 0.8 PF



STANDARD FEATURES

- Heavy duty, 4-cycle, direct injection, heated crankcase vent, turbocharged, charge air cooled, 1000W block heater, diesel engine provides maximum reliability.
- EPA emissions certified - Tier 4 Final emissions compliant.
- Microprocessor engine control system maintains frequency to ±0.25%.
- Full load acceptance of standby nameplate rating in a single step.
- Fuel/water separator removes condensation from fuel for extended engine life. Panel mounted alarm light included.
- Sound attenuated, weather resistant, steel housing provides operation at 66 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.
- E-coat and powder coat paint provides durability and weather protection.
- Internal fuel tank with direct reading fuel gauge.
- Spill Containment - Bunded design protects environment by capturing up to 128% of engine fluids.
- Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.
  - Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.
  - Automatic voltage regulator (AVR) provides precise regulation.
- Fully covered power panel. Three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. All are NEMA standard.
- ECU845 microprocessor-based digital generator controller.
  - Remote 2-wire start/stop control.
  - High visibility LCD display with heated screen and alphanumeric readout.
  - Operational temperature range of -40° to 85° C.
  - AC monitoring along with fuel and DEF level indicators.
- Digital engine gauges including oil pressure, water temperature, battery volts, engine speed, engine load, fuel level and DEF level.
- Analog generator instrumentation including AC ammeter, AC voltmeter, frequency meter, ammeter phase selector switch, voltmeter phase selector switch, and voltage regulator adjustment potentiometer.
- Automatic safety shutdown system monitors the water temperature, engine oil pressure, low DEF, overspeed and overcrank. Warning lights indicate abnormal conditions.
- Voltage selector switch offers the operator a wide range of voltages that are manually selectable. Fine tuning of the output voltage can be accomplished by adjusting the voltage regulator control knob to obtain the desired voltage.
- Emergency Stop Switch — when manually activated, shuts down generator in the event of an emergency.

DCA125SSIU4F

Generator

SPECIFICATIONS

Generator Specifications		
Design	Revolving field, self-ventilated Drip-proof, single bearing	
Armature Connection	Star with Neutral	Zig Zag
Phase	3	Single
Standby Output	110KW (137.5 KVA)	79 KW
Prime Output	100 KW (125 KVA)	72 KW
3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 240/139	208Y/120, 220Y/127, 240Y/139	N/A
3Ø Voltage (L-L/L-N) Voltage Selector Switch at 3Ø 480/277	416Y/240, 440Y/254, 480Y/277	N/A
1Ø Voltage (L-L/L-N) Voltage Selector Switch at 1Ø 240/120	N/A	240/120
Power Factor	0.8	1.0
Voltage Regulation (No load to full load)	±0.5%	
Generator RPM	1800	
Frequency	60 Hz	
Winding Pitch	2/3	
No. of Poles	4	
Excitation	Brushless with AVR	
Frequency Regulation: No Load to Full Load	Isochronous under varying loads from no load to 100% rated load	
Frequency Regulation: Steady State	±0.25% of mean value for constant loads from no load to full load.	
Insulation	Class F	
Sound Level dB(A) Full load at 23 feet	66	

Engine Specifications	
Make / Model	Isuzu / BR-4HK1X
Emissions	EPA Tier 4 Final Certified
Starting System	Electric
Design	4-cycle, water cooled, direct injection, turbocharged. Charged Air Cooled EGR, DOC and SCR.
Displacement	317 in³ (5193 cc)
No. cylinders	4
Bore x Stroke	4.52 x 4.92 in. (115 x 125 mm)
Gross Engine Power Output	170.8 hp (127.4 kW)
BMEP	211 psi (1458 kPa)
Piston Speed	1476 ft/min (7.5 m/s)
Compression Ratio	16.5:1
Engine Speed	1800 rpm
Overspeed Limit	2070 rpm
Oil Capacity	6.05 gallons (22.9 liters)
Battery	12V 150Ah x 1

Fuel System		
Recommended Fuel	ASTM-D975-No.1 & No.2-D*	
Maximum Fuel Flow (per hour)	19 gallons (71.9 liters)	
Maximum Inlet Restriction (Hg)	2.9 in (73.6 mm)	
Fuel Tank Capacity	169 gallons (640 liters)	
Fuel Consumption	**gph**	**lph**
At full load	7.1	26.9
At 3/4 load	5.6	21.2
At 1/2 load	4.1	15.5
At 1/4 load	2.6	10.0
DEF Tank Capacity	7.4 gallons (28 liters)	

* - Use ultra-low sulfur diesel fuel.

Cooling System	
Fan Load	6.57 hp (4.9 kW)
Coolant Capacity (with radiator)	10.3 gallons (39 liters)
Coolant Flow Rate (per minute)	60.8 gallons (230 liters)
Heat Rejection to Coolant (per minute)	4456 Btu (4.7 MJ)
Maximum Coolant Friction Head	1.1 psi (7.7 kPa)
Maximum Coolant Static Head	3.3 feet (1 meter)
Ambient Temperature Rating	104°F (40°C)

Air	
Combustion Air	244 cfm (6.9 m³/min)
Maximum Air Cleaner Restriction	25 in. H_2O (6.25 kPa)
Alternator Cooling Air	1352 cfm (38.3 m³/min)
Radiator Cooling Air	6005 cfm (170 m³/min)

Exhaust System	
Gas Flow (full load)	512 cfm (14.5 m³/min)
Gas Temperature	658°F (348°C)
Maximum Back Pressure	100 in. H_2O (25 kPa)

Amperage	
Rated Voltage	**Maximum Amps**
1Ø 120 Volt	300A x 2 (Zigzag)
1Ø 240 Volt	300 A (Zigzag)
3Ø 208 Volt	300 Amps
3Ø 240 Volt	300 Amps
3Ø 480 Volt	150 Amps
Main Line Circuit Breaker Rating	300 Amps
Over Current Relay Trip Set Point 480V Mode Only	152 Amps

WARRANTY*

Isuzu Engine**

12 months from date of purchase with unlimited hours or 36 months from date of purchase with 3000 hours (whichever occurs first).

Generator

24 months from date of purchase or 2000 hours (whichever occurs first).

Trailer

12 months excluding normal wear items.

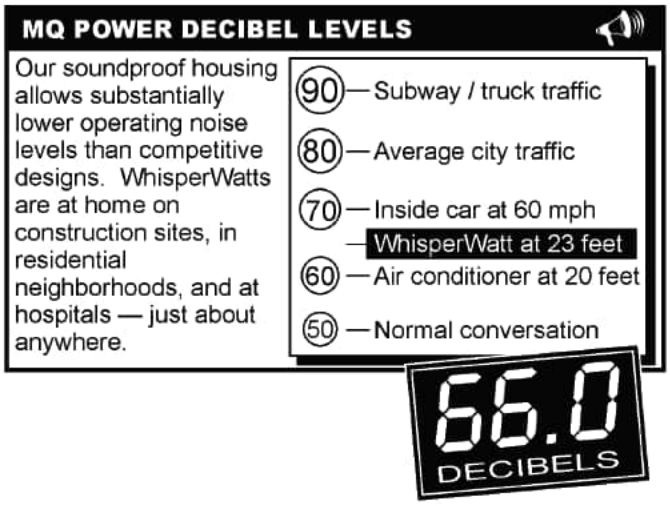
*Refer to the express written, one-year limited warranty sheet for additional information.
**Refer to Isuzu Diesel Engine Limited Warranty for details.

NOTICE

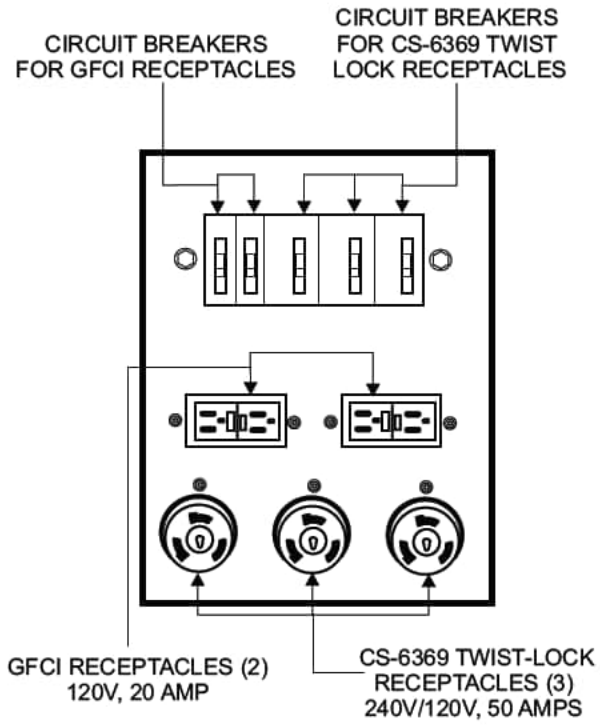
Specifications sheet is subject to change and is not intended for use in installation design.

DCA125SSIU4F

Generator



GENERATOR OUTPUT PANEL



OPTIONAL GENERATOR FEATURES

- **Parallel Controls** — provides the ability to connect multiple generators together into a single power generation system.
- **PowerBalance™** — designed to assist generators when operating under low temperature and/or low load conditions to insure peak performance.
- **Battery Charger** — provides fully automatic and self-adjusting charging to the generator's battery system.
- **Trailer Mounted Package** — meets National Highway Traffic Safety Administration (NHTSA) regulations. Trailer is equipped with electronic or surge brakes with double axle configuration.

OPTIONAL CONTROL FEATURES

- **Audible Alarm** — alerts operator of abnormal conditions.

OPTIONAL FUEL CELL FEATURES

- **Sub-base Fuel Cells (double wall)** — additional fuel cell for extended runtime operation. Contains a leak sensor, low fuel level switch, and a secondary containment tank. UL142 listed.
- 12 hours of minimum run time.
- 24 hours of minimum run time.

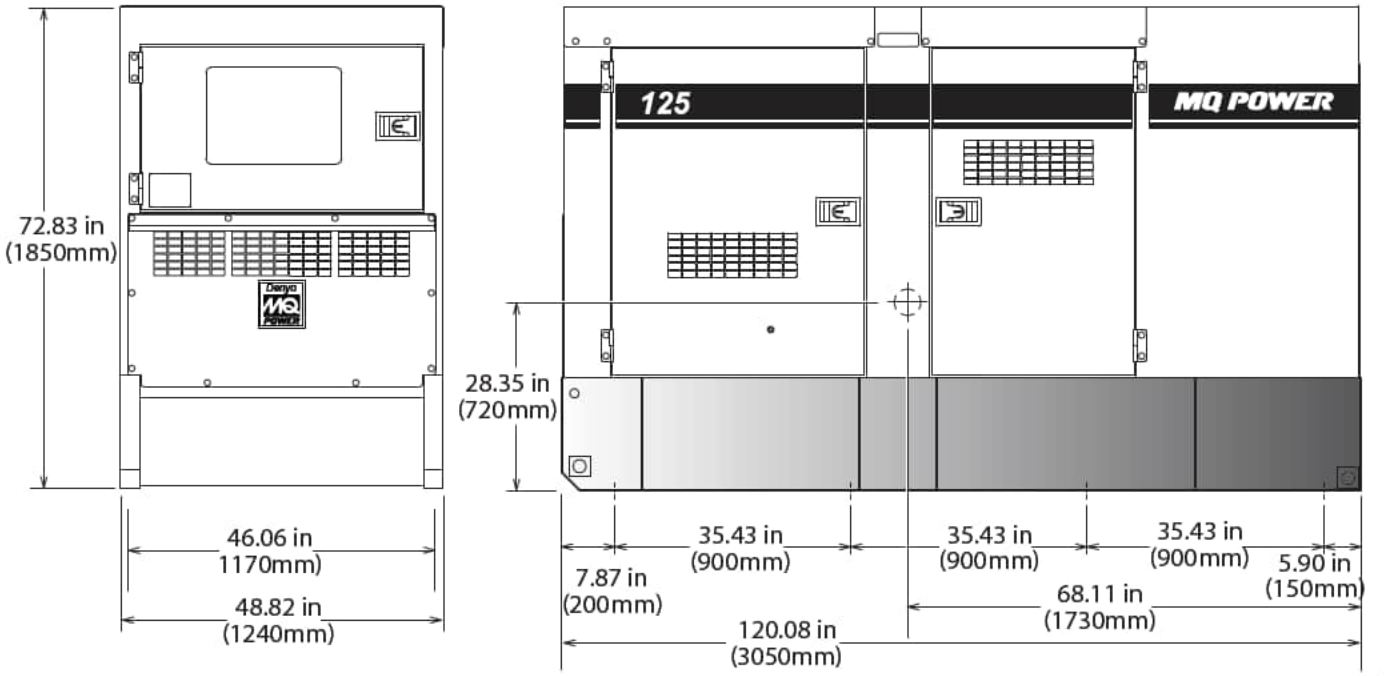
OPTIONAL OUTPUT CONNECTIONS

- **Cam-Lok Connectors** — provides quick disconnect alternative to bolt-on connectors.
- **Pin and Sleeve Connectors** — provides industry standard connectors for all voltage requirements.
- **Output Cable** — available in any custom length and size configuration.

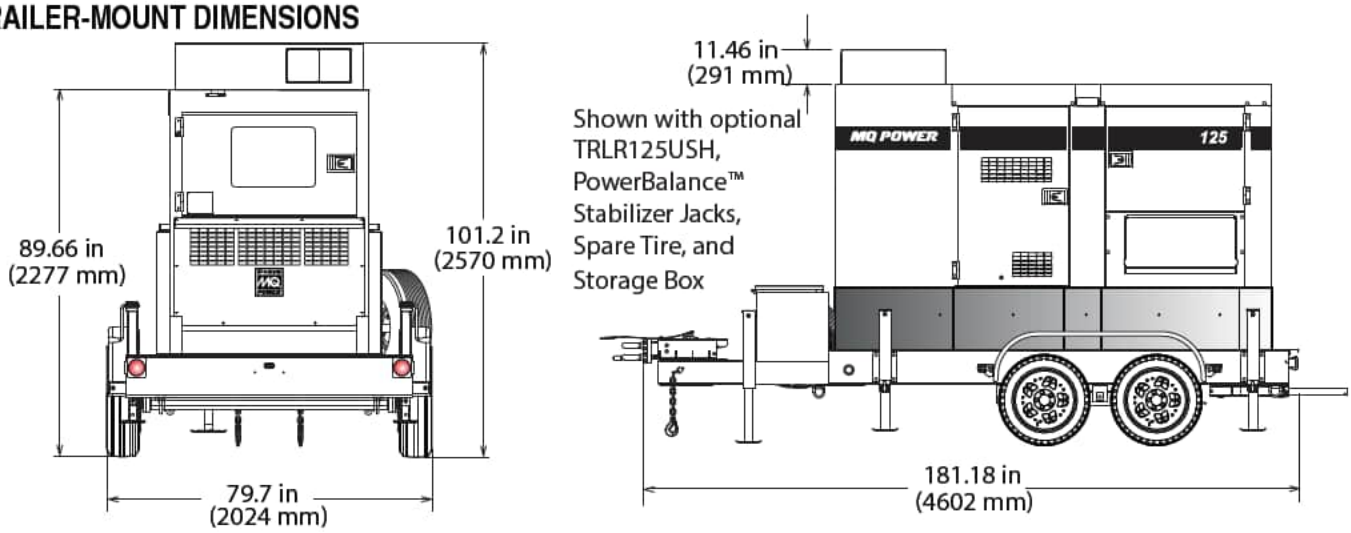
DCA125SSIU4F

Generator

SKID-MOUNT DIMENSIONS



TRAILER-MOUNT DIMENSIONS



DCA125SSIU4F Weights*	
Dry Weight	5,291 lbs. (2,400 kg)
Wet Weight	6,702 lbs. (3,040 kg)
Max. Lifting Point Capacity	14,050 lb. (6,370 kg)

DCA125SSIU4F and TRLR125US Weights*	
Dry Weight (with TRLR125US)	7,013 lbs. (3,181 kg)
Wet Weight (with TRLR125US)	8,424 lbs. (3,821 kg)

* Weights do not include options.

Generator can be placed on MQ Trailer Models TRLR125US and TRLR180XF.

NOTICE

Features and Specifications are subject to change without notice.

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DCA125SSIU4F Rev. #8 (06/01/22)

MULTIQUIP
6141 Katella Avenue Suite 200
Cypress, CA 90630
310-537-3700
E-MAIL: mq@multiquip.com
WEBSITE: www.multiquip.com

McMillan-McGee Corp

ET-DSP™ EQUIPMENT SPECIFICATIONS

ET-DSP™ Power Distribution Panel		
Electrical Performance	Amperage	3000 A Main Breaker, 4-1000A Breakers, 2–400A Breakers for PDS and Process Equipment
	Voltage	690, 600, 480, 400 vac 50 or 60hz
	Utility Panel	5kVA Step down transformer supplies control power for PDP and two weatherproof convenience outlets.
Breaker Control	Breakers are all equipped with shunt trips that can be connected to a remote pushbutton for Emergency Shutdown.	
Power Monitoring	PDP is equipped with a Modbus communication module which can send Main Breaker data to site server.	

MCMILLAN-MCMGEE CORP.
4895 35B. ST. SE. CALGARY, AB. T2B 3M9. 403.569.5100.
www.mcmillan-mcgee.com

Appendix D – SEE System Permits

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2023-68012 **PERMIT NO.:** 2023-EE-68012

BUREAU ID: W1198210021

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS **DATE ISSUED:** April 4, 2023

PREPARED BY: AECOM

SUBJECT: SHELL OIL PRODUCTS US – Construction and Operation of Steam Enhanced Extraction Pretreatment System – Village of Roxana Wastewater Treatment Plant

PERMITTEE TO CONSTRUCT AND OPERATE

Shell Oil Products US
128 E. Center St.
Nazareth, PA 18064

Permit is hereby granted to the above designated permittee(s) to construct and/or operate water pollution control facilities described as follows:

The construction of a new pretreatment system located approximately at 143 East 8th Street in Roxana consisting of a 50 GPM oil/water separator, a 50 GPM air stripper, three pairs of bag filters with each side capable of pretreating 50 GPM, two 2,000 lb liquid phase activated carbon vessels, and all of the necessary pipes, pumps, and appurtenances to treat 57,600 GPD DAF and 72,000 GPD DMF of steam enhanced soil extraction wastewater with a discharge to the Village of Roxana Wastewater Treatment Plant via an existing onsite sewer.

The operational portion of this permit expires on February 28, 2028.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: The Permittee to Construct shall be responsible for obtaining an NPDES Storm Water Permit prior to initiating construction if the construction activities associated with this project will result in the disturbance of one (1) or more acres total land area.

An NPDES Storm Water Permit may be obtained by submitting a properly completed Notice of Intent (NOI) form by certified mail to the Agency's Division of Water Pollution Control - Permit Section.")

SPECIAL CONDITION 2: Issuance of this permit does not release the Permittees from any liability for prior violations of the Act or Rules and Regulations promulgated thereunder.

SPECIAL CONDITION 3: All sludges generated on site shall be disposed of at a site and in a manner acceptable to the Agency.

SPECIAL CONDITION 4: The operation of the pretreatment facilities must be under the direct and active field supervision of a certified industrial treatment plant operator in accordance with the State of Illinois Rules and Regulations, Title 35, Subtitle C, Chapter 1, Part 312.

SPECIAL CONDITION 5: The issuance of this permit does not relieve the permittee of the responsibility of complying with

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

DEL:MEL:2023-68035.docx

DIVISION OF WATER POLLUTION CONTROL

cc: EPA-Des Plaines FOS
AECOM
Records - Industrial
Binds

Darin E. LeCrone, P.E.
Manager, Permit Section

LOG NUMBERS: 2023-68012 **PERMIT NO.:** 2023-EE-68012

BUREAU ID: W1198210021

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS **DATE ISSUED:**

PREPARED BY: AECOM

SUBJECT: SHELL OIL PRODUCTS US – Construction and Operation of Steam Enhanced Extraction Pretreatment System – Village of Roxana Wastewater Treatment Plant

any limitations and provisions imposed by Village of Roxana.

SPECIAL CONDITION 6: The issuance of this permit does not relieve the permittee of the responsibility of complying with 35 Ill. Adm. Code, Part 307 and/or the General Pretreatment Regulations (40 CFR 403) and any guidelines developed pursuant to Section 30 1, 306, or 307 of the Federal Clean Water Act of 1977.

SPECIAL CONDITION 7: The constituents in the treated groundwater shall be below the concentrations in the following table prior to being hauled offsite:

Constituent	**Reporting Limit (mg/l)**
Benzene	0.002

SPECIAL CONDITION 8: Monitoring Requirements:

(A) The permittee shall monitor treated wastewater prior to the discharge to the Roxana POTW on a monthly basis.

(B) A summary indicating the date of sampling and the consituent concentration shall be submitted to the following addresses on a monthly basis:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency
Collinsville FOS
2009 Mall Street
Collinsville, Illinois 62234

All Correspondance shall reference the permit number.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397
JB PRITZKER, GOVERNOR
JOHN J. KIM, DIRECTOR

217/785-1705

CONSTRUCTION PERMIT

PERMITTEE

Shell Oil Products US
Attn: Leroy Bealer
128 East Center Street
Nazareth, Pennsylvania 18064

Application No.: 22020023
Applicant's Designation: Roxana Site
Subject: Steam Enhanced Extraction System
Date Issued: May 3, 2022
Location: WRB Refinery Near Intersection of Chaffer Street and 8th Street, Roxana, Madison County

I.D. No.: 119090AAO
Date Received: February 22, 2022
Expiration Date:

This permit is hereby granted to the above-designated Permittee to CONSTRUCT emission unit(s) and/or air pollution control equipment consisting of

Modification to the existing Soil Vapor Extraction (SVE) System controlled by existing Regenerative Thermal Oxidizer (RTO) to include the use of a Steam Enhanced Extraction (SEE) system with one (1) 25.1 mmBtu/hr Natural Gas Fired Steam Boiler and back-up control by use of a Vapor Granular Activated Carbon (VGAC) system (comprised of two (2) in series VGAC).

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

1a. This permit is issued based on the emission of Hazardous Air Pollutants (HAP) as listed in Section 112(g) of the Clean Air Act from the steam Enhanced Extraction with one (1) 25.1 mmBtu/hr Natural Gas Fired Steam Boiler being less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements of Section 112(g) of the Clean Air Act.

b. This permit is issued based on the construction of Steam Enhanced Extraction (SEE) system one (1) 25.1 mmBtu/hr Natural Gas Fired Steam Boiler not constituting a new major source or major modification pursuant to Title I of the Clean Air Act, specifically 40 CFR 52.21 Prevention of Significant Deterioration of Air Quality. The source has requested that the Illinois EPA establish emission limitations and other appropriate terms and conditions in this permit that limit the 100 tons/year for Volatile Organic Material (VOM), 10 tons/year for any single Hazardous Air Pollutant (HAP) and 25 tons/year for any combination of such HAPs) from the above-listed equipment below the levels that would trigger the applicability of these rules.

c. The Steam Enhanced Extraction (SEE) system with Boiler and associated Vapor Granular Activated Carbon (VGAC) system shall not begin operation under this construction permit until construction of SEE system, Boiler and associated VGAC, is complete and reasonable measures short of actual operation have been taken to verify proper operation.

2a. The Boiler and RTO associated with the SVE/SEE system are subject to 35 Ill. Adm. Code Part 212 Subpart B (Visible Emissions). Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.

b. Pursuant to 35 Ill. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

c. This source is subject to 35 Ill. Adm. Code Part 212 Subpart K (Fugitive Particulate Matter). Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.

3. The RTO associated with the SVE/SEE system is subject to 35 Ill. Adm. Code Part 214 Subpart K (Process Emission Sources). Pursuant to 35 Ill. Adm. Code 214.301, except as further provided by 35 Ill. Adm. Code Part 214, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

4a. The SVE/SEE system is subject to 35 Ill. Adm. Code Part 219 Subpart G (Use of Organic Material). Pursuant to 35 Ill. Adm. Code 219.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 Ill. Adm. Code 219.302, 219.303, 219.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code Part 219 Subpart G shall apply only to photochemically reactive material.

b. Pursuant to 35 Ill. Adm. Code 219.302(a), emissions of organic material in excess of those permitted by 35 Ill. Adm. Code 219.301 are allowable if such emissions are controlled by one of the following methods:

Flame, thermal or catalytic incineration so as either to reduce such emissions to 10 ppm equivalent methane (molecular weight 16) or less,

or to convert 85 percent of the hydrocarbons to carbon dioxide and water.

c. The SVE/SEE system with RTO is subject to 35 Ill. Adm. Code Part 219 Subpart TT (Other Emission Units). Pursuant to 35 Ill. Adm. Code 219.980(a), the requirements of 35 Ill. Adm. Code Part 219 Subpart TT shall apply to a source's VOM emission units, which are not included within any of the categories specified in 35 Ill. Adm. Code Part 219 Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, PP, QQ, or RR, or are not exempted from permitting requirements pursuant to 35 Ill. Adm. Code 201.146, if the source is subject to 35 Ill. Adm. Code Part 219 Subpart TT. A source is subject to 35 Ill. Adm. Code Part 219 Subpart TT if it contains process emission units, not regulated by 35 Ill. Adm. Code Part 219 Subparts B, E, F (excluding 35 Ill. Adm. Code 219.204(l)), H (excluding 35 Ill. Adm. Code 219.405), Q, R, S, T, (excluding 35 Ill. Adm. Code 219.486 of this Part), V, X, Y, Z or BB, which as a group both:

i. Have maximum theoretical emissions of 91 Mg (100 tons) or more per calendar year of VOM if no air pollution control equipment were used, and

ii. Are not limited to less than 91 Mg (100 tons) of VOM emissions per calendar year in the absence of air pollution control equipment, through production or capacity limitations contained in a federally enforceable permit or a SIP revision.

d. Pursuant to 35 Ill. Adm. Code 219.986(a), every owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 219 Subpart TT shall comply with the requirements of 35 Ill. Adm. Code 219.986(a), (b), (c), (d) or (e).

Emission capture and control equipment which achieve an overall reduction in uncontrolled VOM emissions of at least 81 percent from each emission unit.

5. This permit is issued based on the SVE/SEE system at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Site Remediation, 40 CFR 63 Subpart GGGGG because this source is not a major source of HAP as defined in 40 CFR 63.2. This is a result of the federally enforceable production and operating limitations, which were established in this permit to restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs.

6a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.

b. The RTO shall be in operation at all times when the associated SVE/SEE system is in operation and emitting air contaminants.

c. The backup VGAC system shall be in operation when the RTO is shut down and SEE system is in operation and emitting air contaminants.

d. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the RTO and VGAC associated with the SVE/SEE system such that the RTO and VGAC are kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.

e. The boiler shall only be operated with natural gas as the fuel. The use of any other fuel in the RTO and boiler may require that the Permittee first obtain a construction permit from the Illinois EPA and perform stack testing to verify compliance with all applicable requirements.

7a. The Permittee shall operate the SEE system such that the emissions and operation of the SEE system not exceed the following limits:

Maximum VOM/HAP Emissions (Lbs/Hour)	(Tons/Month)	(Tons/Year)
1.42	0.53	3.43

These limits are based on 35 Ill. Adm. Code 219.301 and emissions shall be calculated using the following equation:

b. Combustion emissions of the SEE System shall not exceed the following limits:

Total Maximum firing rate = 25.106 mmBtu/hr

Maximum Natural gas usage = 215.6 mmscf

Pollutant	Emission Factor (Lb/mmBtu)	Emissions (Tons/Mo)	(Tons/Yr)
Carbon Monoxide (CO)	0.084	0.91	9.06
Nitrogen Oxides (NO_x)	0.10	1.08	10.78
Particulate Matter (PM)	0.0076	0.08	0.82
Sulfur Dioxide (SO_2)	0.0006	0.006	0.06

These limits are based on maximum firing rate, operating hours (8,760 hr/yr), standard AP-42 - Tables 3.1-1 and 3.1-2a emission factors and information in the application.

c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

8. The issuance of this permit does not relieve the Permittee of the responsibility of complying with the applicable provisions of the State of Illinois Rules and Regulations, Title 35: Subtitle C, Water

Pollution Control, Chapter 1. The Permittee may need to obtain a permit from the Division of Water Pollution Control for operation of the system.

9a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.

ii. Testing by the Illinois EPA. The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

b. Testing required by Conditions 11 and 12 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.

10. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.

11. Pursuant to 35 Ill. Adm. Code 219.988(a), when in the opinion of the Illinois EPA it is necessary to conduct testing to demonstrate compliance with 35 Ill. Adm. Code 219.986, the owner or operator of a VOM emission unit subject to the requirements of 35 Ill. Adm. Code Part 219 Subpart TT shall, at his own expense, conduct such tests in accordance with the applicable test methods and procedures specified in

35 Ill. Adm. Code 219.105.

12a. Pursuant to 35 Ill. Adm. Code 219.105(d)(2)(A)(i), an owner or operator: That uses an afterburner or carbon adsorber to comply with any Section of 35 Ill. Adm. Code Part 219 must use Illinois EPA and USEPA approved continuous monitoring equipment which is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use except as provided in 35 Ill. Adm. Code 219.105(d)(3). The continuous monitoring equipment must monitor the following parameters:

For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner.

b. Pursuant to 35 Ill. Adm. Code 219.105(d)(2)(B), an owner or operator: Must install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device, such as a strip chart, recorder or computer, having an accuracy of ± 1 percent of the temperature measured, expressed in degrees Celsius or ± 0.5° C, whichever is greater.

13. Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to Section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

14. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be

retained for at least three (3) years after the date a test is performed.

15a. Pursuant to 35 Ill. Adm. Code 219.991(a)(2), any owner or operator of a VOM emission unit which is subject to the requirements of 35 Ill. Adm. Code Part 219 Subpart PP, QQ, RR or TT and complying by the use of emission capture and control equipment shall comply with the following:

On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject VOM source shall collect and record all of the following information each day and maintain the information at the source for a period of three years:

i. Control device monitoring data.

ii. A log of operating time for the capture system, control device, monitoring equipment and the associated emission source.

iii. A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

16a. The Permittee shall maintain monthly records of the following items:

i. Records addressing use of good operating practices for the RTO and VGAC system (when in operation) associated with the SVE/SEE system:

A. Records for periodic inspection of the RTO and VGAC system (when in operation) with date, individual performing the inspection, and nature of inspection;

B. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair; and

C. Records for monthly photoionization detector (PID) measurements between first and second VGAC vessel.

ii. Measured exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air flow samples exhausting the SVE and for the SEE system before and after the VGAC system (when in operation). These samples and measurements shall be taken at start-up, once/day for first 3 days, 2 times/week for first 2 weeks and once every other month thereafter. Air samples from the first two weeks shall be sent to a certified lab and analyzed by USEPA method TO-14A using gas chromatography. After the first 2 weeks of operation, the Permittee may measure exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air using an appropriately calibrated photo or flame ionization detector on a once/every other month basis.

iii. Exhaust air flow rate (dscfm) from the SVE/SEE system at start-up, once per week for first 2 weeks, and once every other month thereafter;

iv. Hours of operation of the system (hours/month, hours/year

v. Natural gas usage (mmscf/month, mmscf/year); and

vi. Monthly and annual emissions of CO, NOx, PM, SO2, VOM, and HAPs from the SEE with boiler with supporting calculations (tons/month and tons/year).

b. All records and logs required by this Condition 17(a) of permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.

17a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the records required by this permit or otherwise, the Permittee shall submit a report to the Illinois EPA's Bureau of Air Compliance Section in Springfield, Illinois within thirty (30) days after the exceedance or deviation. The report shall identify the duration and the emissions impact of the exceedance or deviation, a copy of the relevant records and information to resolve the exceedance or deviation, and a description of the efforts to reduce emissions from, and the duration of exceedance or deviation, and to prevent future occurrences of any such exceedance or deviation.

b. One (1) copy of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

If you have any questions on this permit, please contact Jocelyn Stakely at 217/785-1705.

William D. Marr
Manager, Permit Section
Bureau of Air

WDM:JRS:tan

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
P. O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.

2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act, and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The Permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:

   a. to enter the Permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,

   b. to have access to and copy any records required to be kept under the terms and conditions of this permit,

   c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,

   d. to obtain and remove samples of any discharge or emission of pollutants, and

   e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,

   b. does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,

   c. does not release the Permittee from compliance with the other applicable statues and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,

   d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.

b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.

7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:

a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or

b. upon finding that any standard or special conditions have been violated, or

c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397
JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

217/785-1705

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - REVISED

PERMITTEE

Shell Oil Products US
Attn: Leroy Bealer
128 East Center Street
Nazareth, Pennsylvania 18064

Application No.: 12040025 I.D. No.: 119090AAO
Applicant's Designation: Roxana Site Date Received: February 22, 2022
Subject: SVE/SEE System with RTO Control
Date Issued: May 3, 2022 Expiration Date: October 5, 2031
Location: WRB Refinery Near Intersection of Chaffer Street and 8th Street, Roxana, Madison County

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of a soil vapor extraction (SVE) system, including steam enhanced extraction (SEE) with boiler, with regenerative thermal oxidizer (RTO) control and back-up control by use of a Vapor Granular Activated Carbon (VGAC) system (comprised of two (2) in series VGAC) pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

1a. This Federally Enforceable State Operating Permit (FESOP) is issued:

i. To limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 100 tons/year for Volatile Organic Material (VOM), 10 tons/year for any single Hazardous Air Pollutant (HAP) and 25 tons/year for any combination of such HAPs). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.

ii. To establish federally enforceable production and operating limitations, which restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP) and 25 tons/year of any combination of such HAPs so that the source is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Site Remediation, 40 CFR 63 Subpart GGGGG.

b. Prior to initial issuance, a draft of this permit has undergone a public notice and comment period.

c. This permit supersedes all operating permit(s) for this location.

2a. The RTO associated with the SVE and boiler associated with the SEE

system are subject to 35 Ill. Adm. Code Part 212 Subpart B (Visible Emissions). Pursuant to 35 Ill. Adm. Code 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 Ill. Adm. Code 212.122.

b. Pursuant to 35 Ill. Adm. Code 212.123(b), the emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 305 m (1000 ft) radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period.

c. This source is subject to 35 Ill. Adm. Code Part 212 Subpart K (Fugitive Particulate Matter). Pursuant to 35 Ill. Adm. Code 212.301, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source.

3. The RTO associated with the SVE and boiler associated with the SEE system are subject to 35 Ill. Adm. Code Part 214 Subpart K (Process Emission Sources). Pursuant to 35 Ill. Adm. Code 214.301, except as further provided by 35 Ill. Adm. Code Part 214, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

4a. The SVE/SEE system is subject to 35 Ill. Adm. Code Part 219 Subpart G (Use of Organic Material). Pursuant to 35 Ill. Adm. Code 219.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 Ill. Adm. Code 219.302, 219.303, 219.304 and the following exception: If no odor nuisance exists the limitation of 35 Ill. Adm. Code Part 219 Subpart G shall apply only to photochemically reactive material.

b. Pursuant to 35 Ill. Adm. Code 219.302(a), emissions of organic material in excess of those permitted by 35 Ill. Adm. Code 219.301 are allowable if such emissions are controlled by one of the following methods:

Flame, thermal or catalytic incineration so as either to reduce such emissions to 10 ppm equivalent methane (molecular weight 16) or less, or to convert 85 percent of the hydrocarbons to carbon dioxide and water.

c. The SVE/SEE system is subject to 35 Ill. Adm. Code Part 219 Subpart TT (Other Emission Units). Pursuant to 35 Ill. Adm. Code 219.980(a), the requirements of 35 Ill. Adm. Code Part 219 Subpart TT shall apply to a source's VOM emission units, which are not included within any of the

categories specified in 35 Ill. Adm. Code Part 219 Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, PP, QQ, or RR, or are not exempted from permitting requirements pursuant to 35 Ill. Adm. Code 201.146, if the source is subject to 35 Ill. Adm. Code Part 219 Subpart TT. A source is subject to 35 Ill. Adm. Code Part 219 Subpart TT if it contains process emission units, not regulated by 35 Ill. Adm. Code Part 219 Subparts B, E, F (excluding 35 Ill. Adm. Code 219.204(l)), H (excluding 35 Ill. Adm. Code 219.405), Q, R, S, T, (excluding 35 Ill. Adm. Code 219.486 of this Part), V, X, Y, Z or BB, which as a group both:

i. Have maximum theoretical emissions of 91 Mg (100 tons) or more per calendar year of VOM if no air pollution control equipment were used, and

ii. Are not limited to less than 91 Mg (100 tons) of VOM emissions per calendar year in the absence of air pollution control equipment, through production or capacity limitations contained in a federally enforceable permit or a SIP revision.

d. Pursuant to 35 Ill. Adm. Code 219.986(a), every owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 219 Subpart TT shall comply with the requirements of 35 Ill. Adm. Code 219.986(a), (b), (c), (d) or (e).

Emission capture and control equipment which achieve an overall reduction in uncontrolled VOM emissions of at least 81 percent from each emission unit.

5. This permit is issued based on the SVE/SEE system at this source not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Site Remediation, 40 CFR 63 Subpart GGGGG because this source is not a major source of HAP as defined in 40 CFR 63.2. This is a result of the federally enforceable production and operating limitations, which were established in this permit to restrict the potential to emit to less than 10 tons/year for any individual Hazardous Air Pollutant (HAP), and 25 tons/year of any combination of such HAPs.

6. Pursuant to 35 Ill. Adm. Code 212.314, 35 Ill. Adm. Code 212.301 shall not apply and spraying pursuant to 35 Ill. Adm. Code 212.304 through 212.310 and 35 Ill. Adm. Code 212.312 shall not be required when the wind speed is greater than 40.2 km/hr (25 mph). Determination of wind speed for the purposes of 35 Ill. Adm. Code 212.314 shall be by a one-hour average or hourly recorded value at the nearest official station of the U.S. Weather Bureau or by wind speed instruments operated on the site. In cases where the duration of operations subject to 35 Ill. Adm. Code 212.314 is less than one hour, wind speed may be averaged over the duration of the operations on the basis of on-site wind speed instrument measurements.

7a. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.

b. The RTO shall be in operation at all times when the associated SVE/SEE system is in operation and emitting air contaminants.

c. The backup VGAC system shall be in operation when the RTO is shut down and SEE system is in operation and emitting air contaminants.

d. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the RTO and VGAC associated with the SVE/SEE system such that the RTO and VGAC are kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.

e. The RTO's combustion chamber shall be preheated to at least the manufacturer's recommended temperature but no less than the temperature at which compliance was demonstrated in the most recent compliance test, or 1,400°F in the absence of a compliance test. This temperature shall be maintained during operation.

f. The RTO and boiler shall only be operated with natural gas as the fuel. The use of any other fuel in the RTO and boiler may require that the Permittee first obtain a construction permit from the Illinois EPA and perform stack testing to verify compliance with all applicable requirements.

8a. Emissions from and operation of the SVE/SEE system with RTO not exceed the following limits:

i. VOM emissions:

Maximum VOM Emissions (lbs/Hour)	(Tons/Month)	(Tons/Year)
8.00	2.49	24.90

ii. HAP emissions:

Single HAP Emissions (Tons/Month)	(Tons/Year)	Combined HAP Emissions (Tons/Month)	(Tons/Year)
0.79	7.90	1.99	19.90

These limits are based on compliance with 35 Ill. Adm. Code 219.301, the maximum hours of operation, and emissions shall be calculated using the following equation:

$$\text{Emissions (tons)} = \left[\frac{\begin{array}{c}\text{Total SVE/SEE/RTO System Exhaust} \\ \text{Contaminant Concentration (ppmv)} \\ \text{x SVE/SEE/RTO System Exhaust Flowrate (scfm)} \\ \text{x 100 lb/lb-Mole} \\ \text{x 60 min/hour}\end{array}}{10^6 \text{ x 387 cu ft/lb - Mole}} \right] \times \text{Hours Operated} \div \frac{2000\ \#}{\text{Ton}}$$

b. Combined Combustion emissions of the SVE/SEE/RTO shall not exceed the following limits:

Maximum Natural gas usage = 241.4 mmscf/yr

Pollutant	Emission Factor (lbs/mmBtu)	Emissions (Tons/Mo)	Emissions (Tons/Yr)
Carbon Monoxide (CO)	0.084	1.05	10.5
Nitrogen Oxides (NO_x)	0.10	1.25	12.5
Particulate Matter (PM)	0.0076	0.1	1.0
Sulfur Dioxide (SO_2)	0.0006	0.01	0.1

These limits are based on maximum firing rate (3.0 mmBtu/hour for the RTO and 25.106 mmBtu/hr for the SEE system steam boiler), 8,760 hours/year of operation, and standard emission factors (Tables 1.4-1 and 1.4-2, AP-42, Fifth Edition, Volume I, Supplement D, July 1998).

c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

9a. Pursuant to 35 Ill. Adm. Code 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

i. Testing by Owner or Operator. The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. The Illinois EPA may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and revisions thereto, shall not become effective until filed with the Secretary of State, as required by the APA Act. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests.

ii. Testing by the Illinois EPA. The Illinois EPA shall have the

right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

b. Testing required by Conditions 10 and 11 shall be performed upon a written request from the Illinois EPA by a qualified independent testing service.

10. Pursuant to 35 Ill. Adm. Code 212.110(c), upon a written notification by the Illinois EPA, the owner or operator of a particulate matter emission unit subject to 35 Ill. Adm. Code Part 212 shall conduct the applicable testing for particulate matter emissions, opacity, or visible emissions at such person's own expense, to demonstrate compliance. Such test results shall be submitted to the Illinois EPA within thirty (30) days after conducting the test unless an alternative time for submittal is agreed to by the Illinois EPA.

11. Pursuant to 35 Ill. Adm. Code 219.988(a), when in the opinion of the Illinois EPA it is necessary to conduct testing to demonstrate compliance with 35 Ill. Adm. Code 219.986, the owner or operator of a VOM emission unit subject to the requirements of 35 Ill. Adm. Code Part 219 Subpart TT shall, at his own expense, conduct such tests in accordance with the applicable test methods and procedures specified in 35 Ill. Adm. Code 219.105.

12a. Pursuant to 35 Ill. Adm. Code 219.105(d)(2)(A)(i), an owner or operator: That uses an afterburner or carbon adsorber to comply with any Section of 35 Ill. Adm. Code Part 219 must use Illinois EPA and USEPA approved continuous monitoring equipment which is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use except as provided in 35 Ill. Adm. Code 219.105(d)(3). The continuous monitoring equipment must monitor the following parameters:

For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner.

b. Pursuant to 35 Ill. Adm. Code 219.105(d)(2)(B), an owner or operator: Must install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device, such as a strip chart, recorder or computer, having an accuracy of ± 1 percent of the temperature measured, expressed in degrees Celsius or ± 0.5° C, whichever is greater.

13. Pursuant to 40 CFR 63.10(b)(3), if an owner or operator determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants regulated by any standard established pursuant to Section 112(d) or (f) of the Clean Air Act, and that stationary source is in the source category regulated by the relevant standard, but that source is not

subject to the relevant standard (or other requirement established under 40 CFR Part 63) because of limitations on the source's potential to emit or an exclusion, the owner or operator must keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the owner or operator believes the source is unaffected (e.g., because the source is an area source). The analysis (or other information) must be sufficiently detailed to allow the USEPA and/or Illinois EPA to make a finding about the source's applicability status with regard to the relevant standard or other requirement. If relevant, the analysis must be performed in accordance with requirements established in relevant subparts of 40 CFR Part 63 for this purpose for particular categories of stationary sources. If relevant, the analysis should be performed in accordance with USEPA guidance materials published to assist sources in making applicability determinations under Section 112 of the Clean Air Act, if any. The requirements to determine applicability of a standard under 40 CFR 63.1(b)(3) and to record the results of that determination under 40 CFR 63.10(b)(3) shall not by themselves create an obligation for the owner or operator to obtain a Title V permit.

14. Pursuant to 35 Ill. Adm. Code 212.110(e), the owner or operator of an emission unit subject to 35 Ill. Adm. Code Part 212 shall retain records of all tests which are performed. These records shall be retained for at least three (3) years after the date a test is performed.

15a. Pursuant to 35 Ill. Adm. Code 219.991(a)(2), any owner or operator of a VOM emission unit which is subject to the requirements of 35 Ill. Adm. Code Part 219 Subpart PP, QQ, RR or TT and complying by the use of emission capture and control equipment shall comply with the following:

On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject VOM source shall collect and record all of the following information each day and maintain the information at the source for a period of three years:

i. Control device monitoring data.

ii. A log of operating time for the capture system, control device, monitoring equipment and the associated emission source.

iii. A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

16a. The Permittee shall maintain records of the following items so as to demonstrate compliance with the conditions of this permit:

i. Records addressing use of good operating practices for the RTO

and VGAC system (when in operation) associated with the SVE/SEE system:

A. Records for periodic inspection of the RTO and VGAC system (when in operation) with date, individual performing the inspection, and nature of inspection; and

B. Records for prompt repair of defects, with identification and description of defect, effect on emissions, date identified, date repaired, and nature of repair.

ii. Measured exhaust total VOM and HAP (single and combined) contaminant concentration (ppmv) in exhaust air flow samples exhausting the SVE/SEE system. These samples and measurements shall be taken at start-up once every month. The Permittee may measure exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air using an appropriately calibrated photo or flame ionization detector on a once/month basis.

iii. Exhaust air flow rate (dscfm) from the SVE/SEE with RTO and VGAC (when in operation) system at start-up once every month;

iv. Hours of operation of the system (hours/month, hours/year);

v. Natural gas usage (mmscf/month, mmscf/year); and

vi. Monthly and annual emissions of CO, NO_x, PM, SO_2, VOM, and HAPs from the source with supporting calculations (tons/month and tons/year).

b. All records and logs required by this Condition 16(a) of permit shall be retained at a readily accessible location at the source for at least five (5) years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer storage device) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.

17. Pursuant to 35 Ill. Adm. Code 212.110(d), a person planning to conduct testing for particulate matter emissions to demonstrate compliance shall give written notice to the Illinois EPA of that intent. Such notification shall be given at least thirty (30) days prior to the initiation of the test unless a shorter period is agreed to by the Illinois EPA. Such notification shall state the specific test methods from 35 Ill. Adm. Code 212.110 that will be used.

18a. Pursuant to 35 Ill. Adm. Code 219.991(a)(3), any owner or operator of a VOM emission unit which is subject to the requirements of 35 Ill. Adm. Code Part 219 Subpart PP, QQ, RR or TT and complying by the use of emission capture and control equipment shall comply with the following:

On and after a date consistent with 35 Ill. Adm. Code 219.106, the owner or operator of a subject VOM source shall notify the Illinois EPA in the following instances:

i. Any record showing a violation of the requirements of 35 Ill. Adm. Code Part 219 Subpart PP, QQ, RR or TT shall be reported by sending a copy of such record to the Illinois EPA within 30 days following the occurrence of the violation.

ii. At least 30 calendar days before changing the method of compliance with 35 Ill. Adm. Code Part 219 Subpart PP or TT from the use of capture systems and control devices to the use of complying coatings, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 219.991(b)(1). Upon changing the method of compliance with of 35 Ill. Adm. Code Part 219 Subpart PP or TT from the use of capture systems and control devices to the use of complying coatings, the owner or operator shall comply with all requirements of 35 Ill. Adm. Code 219.991(b).

19a. If there is an exceedance of or a deviation from the requirements of this permit as determined by the records required by this permit or otherwise, the Permittee shall submit a report to the Illinois EPA's Bureau of Air Compliance Section in Springfield, Illinois within thirty (30) days after the exceedance or deviation. The report shall identify the duration and the emissions impact of the exceedance or deviation, a copy of the relevant records and information to resolve the exceedance or deviation, and a description of the efforts to reduce emissions from, and the duration of exceedance or deviation, and to prevent future occurrences of any such exceedance or deviation.

b. One (1) copy of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

It should be noted that the two (2) 629 gallon water storage tanks are exempt from permitting, pursuant to 35 Ill. Adm. Code 201.146(n).

If you have any questions on this permit, please contact Jocelyn Stakely at 217/785-1705.

William D. Marr
Manager, Permit Section
Bureau of Air

WDM:JRS:tan

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the SVE system operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are below the levels, (e.g., 100 tons/year for VOM, 10 tons/year for any single HAP, and 25 tons/year for any combination of such HAP) at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

	E M I S S I O N S (Tons/Year)						
Emission Unit	CO	NO_x	PM	SO_2	VOM	Single HAP	Combined HAPs
SVE/SEE System with RTO	10.5	12.5	1.0	0.1	24.90	7.90	19.90

JRS:tan

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
P. O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS FOR OPERATING PERMITS

May, 1993

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. The issuance of this permit does not release the Permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the Unites States or the State of Illinois or with applicable local laws, ordinances and regulations.

2. The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under 35 Ill. Adm. Code 201.166.

3. a. The Permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted unless a new application or request for revision of the existing permit is filed with the Illinois EPA and unless a new permit or revision of the existing permit(s) is issued for such modification.

   b. This permit only covers emission sources and control equipment while physically present at the indicated plant location(s). Unless the permit specifically provides for equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted location(s) or if all equipment is removed, notwithstanding the expiration date specified on the permit.

4. The Permittee shall allow any duly authorized agent of the Illinois EPA, upon the presentation of credentials, at reasonable times:

   a. To enter the Permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit;

   b. To have access to and to copy any records required to be kept under the terms and conditions of this permit;

   c. To inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit;

   d. To obtain and remove samples of any discharge or emission of pollutants; and

   e. To enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this permit.

5. The issuance of this permit:

   a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are located;

b. Does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the facilities;

c. Does not take into consideration or attest to the structural stability of any unit or part of the project; and

d. In no manner implies or suggests that the Illinois EPA (or its officers, agents, or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. The facilities covered by this permit shall be operated in such a manner that the disposal of air contaminants collected by the equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.

7. The Permittee shall maintain all equipment covered under this permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.

8. The Permittee shall maintain a maintenance record on the premises for each item of air pollution control equipment. These records shall be made available to any agent of the Environmental Protection Agency at any time during normal working hours and/or operating hours. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9. No person shall cause or allow continued operation during malfunction, breakdown or startup of any emission source or related air pollution control equipment if such operation would cause a violation of an applicable emission standard or permit limitation. Should a malfunction, breakdown or startup occur, which results in emissions in excess of any applicable standard or permit limitation, the Permittee shall:

   a. Immediately report the incident to the Illinois EPA's Regional Field Operations Section Office by telephone, telegraph or other method as constitutes the fastest available alternative, and shall comply with all reasonable directives of the Illinois EPA with respect to the incident;

   b. Maintain the following records for a period of no less than two (2) years:

      i. Date and duration of malfunction, breakdown, or startup,

      ii. Full and detailed explanation of the cause,

      iii. Contaminants emitted and an estimate of quantity of emissions,

      iv. Measures taken to minimize the amount of emissions during the malfunction, breakdown or startup, and

      v. Measures taken to reduce future occurrences and frequency of incidents.

10. If the permit application contains a compliance program and project completion schedule, the Permittee shall submit a project completion status report within thirty (30) days of any date specified in the compliance program and project completion schedule or at six month intervals, whichever is more frequent.

11. The Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code 201.302 and 35 Ill. Adm. Code Part 254.

Appendix E – Well Sealing Forms

Print Form

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

1. Ownership (Name of Controlling Party) Equilion Enterprises LLC dba Shell Oil US MW-8

2. Well Location: Well Site Address 900 South Central Ave. City Roxana Zip 62084

Lot # Land I.D.# County Madison Township 5N

Range 9W Section 34 SE Quarter of the SE Quarter of the NE Quarter

GPS: North Degrees 38 Minutes 50 Seconds 29.52 West Degrees 90 Minutes 04 Seconds 38.83

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled 2009 4. Drilling Permit Number (and date, if known

5. Type of Well Monitoring 6. Total Depth (ft.) 43 Diameter (in.) 2

7. Formation clear of obstruction yes

8. Detains of Plugging (bentonite, neat cement or other materials)

Filled with	bentonite chips	From (ft.)	43	to (ft.)	2
Kind of plug	bentonite chips	From (ft.)	2	to (ft.)	0
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	

9. CASING RECORD Upper 2 feet of casing removed yes 10. Date well was sealed 1-10-2023

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Travis Roberts Complete License Number 092-009331

Address 1107 S. Mulberry City Millstadt State Illinois Zip Code 62260

This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

Questions regarding the completion of this form should be directed to the local health department or the Illinois Department of Public Health 217-782-5830, TTY (for hearing impaired only) 800-547-0466.

REDI#222169 Well#MW-8

Print Form

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

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1. Ownership (Name of Controlling Party) Equilion Enterprises LLC dba Shell Oil US SVE-02

2. Well Location: Well Site Address 900 South Central Ave. City Roxana Zip 62084

Lot # Land I.D.# County Madison Township 5N

Range 9W Section 34 SE Quarter of the SE Quarter of the NE Quarter

GPS: North Degrees 38 Minutes 50 Seconds 30.18 West Degrees 90 Minutes 04 Seconds 38.62

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled 4. Drilling Permit Number (and date, if known

5. Type of Well Monitoring 6. Total Depth (ft.) 45 Diameter (in.) 4

7. Formation clear of obstruction yes

8. Detains of Plugging (bentonite, neat cement or other materials)

Filled with	bentonite chips	From (ft.)	45	to (ft.)	2
Kind of plug	bentonite chips	From (ft.)	2	to (ft.)	0
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	

9. CASING RECORD Upper 2 feet of casing removed yes 10. Date well was sealed 1-10-2023

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Travis Roberts Complete License Number 092-009331

Address 1107 S. Mulberry City Millstadt State Illinois Zip Code 62260

This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

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REDI#222169 Well#SVE-02

Print Form

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

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1. Ownership (Name of Controlling Party) Equilion Enterprises LLC dba Shell Oil US VMP-29

2. Well Location: Well Site Address 900 South Central Ave. City Roxana Zip 62084

Lot # Land I.D.# County Madison Township 5N

Range 9W Section 34 SE Quarter of the SE Quarter of the NE Quarter

GPS: North Degrees 38 Minutes 50 Seconds 29.85 West Degrees 90 Minutes 04 Seconds 38.83

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled 4. Drilling Permit Number (and date, if known

5. Type of Well Monitoring 6. Total Depth (ft.) 30 Diameter (in.) 1

7. Formation clear of obstruction yes

8. Detains of Plugging (bentonite, neat cement or other materials)

Filled with	bentonite chips	From (ft.)	30	to (ft.)	2
Kind of plug	bentonite chips	From (ft.)	2	to (ft.)	0
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	

9. CASING RECORD Upper 2 feet of casing removed yes 10. Date well was sealed 1-10-2023

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Travis Roberts Complete License Number 092-009331

Address 1107 S. Mulberry City Millstadt State Illinois Zip Code 62260

This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

Questions regarding the completion of this form should be directed to the local health department or the Illinois Department of Public Health 217-782-5830, TTY (for hearing impaired only) 800-547-0466.

REDI#222169 Well#VMP-29

Print Form

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

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VMP-30

1. Ownership (Name of Controlling Party) Equilion Enterprises LLC dba Shell Oil US

2. Well Location: Well Site Address 900 South Central Ave. City Roxana Zip 62084

Lot # Land I.D.# County Madison Township 5N

Range 9W Section 34 SE Quarter of the SE Quarter of the NE Quarter

GPS: North Degrees 38 Minutes 50 Seconds 29.23 West Degrees 90 Minutes 04 Seconds 38.21

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled

4. Drilling Permit Number (and date, if known

5. Type of Well Monitoring 6. Total Depth (ft.) 30 Diameter (in.) 1

7. Formation clear of obstruction yes

8. Detains of Plugging (bentonite, neat cement or other materials)

Filled with	bentonite chips	From (ft.)	30	to (ft.)	2
Kind of plug	bentonite chips	From (ft.)	2	to (ft.)	0
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	

9. CASING RECORD Upper 2 feet of casing removed yes 10. Date well was sealed 1-10-2023

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Travis Roberts Complete License Number 092-009331

Address 1107 S. Mulberry City Millstadt State Illinois Zip Code 62260

This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

Questions regarding the completion of this form should be directed to the local health department or the Illinois Department of Public Health 217-782-5830, TTY (for hearing impaired only) 800-547-0466.

REDI#222169 Well#VMP-30

Appendix F – Extraction Well Development Forms

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Ruxtwa PROJECT NUMBER: 60697537
DATE: ~~5/3/23~~ 5/3/23
WEATHER: ~~Sunny 70°F~~ 75°F P.Cloudy
FIELD PERSONNEL: B Howell
MONITORING WELL ID: X-AC5

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 62.30 ft btoc
Depth to Water: 35.42 ft btoc
Height of Water Column: 26.88 ft

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.52 gallons
Min. Purge Volume: 87.63 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: N A gallons
Total Water to be Removed: 87.65 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.5 ppm
Wellbore PID/FID Reading: 0.0 ppm

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1300 Purge Stop Time: 1430 Elapsed Time: 90 Total Volume Purged: 90 gallons
Average Purge Rate (gallons/min): 1.00 Well Volumes Purged: 5.13 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 62.30 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 62.33 ft btoc after development

Start pump @ 1300 stop pump @ 1430

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works / Roxana PROJECT NUMBER: 60697537
DATE: 5-4-23
WEATHER: Sunny 55°
FIELD PERSONNEL: J Carmino
MONITORING WELL ID: X-AE4

INITIAL DATA

Well Diameter: 4" in.
Total Depth of Well: 62.4 ft btoc
Depth to Water: 35.52 ft btoc
Height of Water Column: 26.88 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.53 gallons
Min. Purge Volume: 87.63 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: ? gallons
Total Water to be Removed: 87 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 453 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0850 Purge Stop Time: 950 Elapsed Time: 1 HR / 60 MIN Total Volume Purged: ~95 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.40 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 62.40 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 62.42 ft btoc after development

START PUMP @ 0850 STOP @ 0950

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: PUBLIC WORKS PROJECT NUMBER: 60697537
DATE: 5-4-23
WEATHER: Sunny 70°
FIELD PERSONNEL: J Corrino
MONITORING WELL ID: X-AD5

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.46 ft btoc
Depth to Water: 35.32 ft btoc
Height of Water Column: 26.14 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.0 gallons
Min. Purge Volume: 85 gallons (5 volumes)
Depth to Top of Screen: 24. ft btoc

Water Added during Drilling/Installation: — gallons
Total Water to be Removed: 85 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 10.6 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1135 Purge Stop Time: 1225 Elapsed Time: 50 min Total Volume Purged: 85 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: ~~85~~ 5.00 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.46 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.47 ft btoc after development

GPM ~ 1.7 START @ 1135

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: PW4 PROJECT NUMBER: 60697537
DATE: 5-5-23
WEATHER: Part Sunny 75°
FIELD PERSONNEL: T Carfino
MONITORING WELL ID: X-AF

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.45 ft btoc
Depth to Water: 34.32 ft btoc
Height of Water Column: 27.08 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.65 gallons
Min. Purge Volume: 88.25 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: — gallons
Total Water to be Removed: 88.25 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 47.3 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1115 Purge Stop Time: 1210 Elapsed Time: 55 min Total Volume Purged: 85.25 gallons
Average Purge Rate (gallons/min): 1.55 Well Volumes Purged: 5 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.45 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.46 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: PW4 PROJECT NUMBER: 60697537
DATE: 5-5-23
WEATHER: Part Sunny 75°
FIELD PERSONNEL: J Carrino
MONITORING WELL ID: X-AF16

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.00 ft btoc
Depth to Water: 35.04 ft btoc
Height of Water Column: 25.96 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 16.93 gallons
Min. Purge Volume: 85 gallons (5 volumes)
Depth to Top of Screen: 24' ft btoc

Water Added during Drilling/Installation: — gallons
Total Water to be Removed: 85 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0 ppm
Wellbore PID/FID Reading: 9.6 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0850 Purge Stop Time: 0955 Elapsed Time: 65 min Total Volume Purged: 94 gallons
Average Purge Rate (gallons/min): 1.45 Well Volumes Purged: ~~5.55~~ 5.52 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.06 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.01 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/8/23
WEATHER: Sunny, Chance of rain 70°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-AI6

INITIAL DATA

Well Diameter: 4" in.
Total Depth of Well: 61.56 ft btoc
Depth to Water: 35.39 ft btoc
Height of Water Column: 26.17 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.063 gallons
Min. Purge Volume: 85.315 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: ~~NA~~ gallons (5 volumes + 1x added)
Ambient PID/FID Reading: ~~NA~~ 0.0 ppm
Wellbore PID/FID Reading: ~~NA~~ 0.0 ppm
NA

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0955 Purge Stop Time: 1055 Elapsed Time: 60 min Total Volume Purged: 86 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.04 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.56 ft btoc prior to development Start Pump @ 0955
DTB = 61.59 ft btoc after development Stop Pump @ 1055

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/8/23
WEATHER: Sunny 70°
FIELD PERSONNEL: Aaron Diver
MONITORING WELL ID: X-AH7

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.65 ft btoc
Depth to Water: 34.37 ft btoc
Height of Water Column: 27.28 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.787 gallons
Min. Purge Volume: 88.935 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1305 Purge Stop Time: 1405 Elapsed Time: 60 min Total Volume Purged: 89 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.00 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.65 ft btoc prior to development
DTB = 61.67 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/8/23
WEATHER: Sunny 70°
FIELD PERSONNEL: Aaron Dlw
MONITORING WELL ID: X-A38

INITIAL DATA

Well Diameter: 4" in.
Total Depth of Well: 61.49 ft btoc
Depth to Water: 34.47 ft btoc
Height of Water Column: 27.02 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.617 gallons
Min. Purge Volume: 88.085 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 12.9 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1105
Purge Stop Time: ~~1205~~ AO 1150
Elapsed Time: 45 min
Total Volume Purged: 88 gallons
Average Purge Rate (gallons/min): 1.7
Well Volumes Purged: 5.00
Water Quality Meter ID: N/A
Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.49 ft btoc prior to development
DTB = 61.52 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard Roxana PROJECT NUMBER: 60697537
DATE: 5/9/23
WEATHER: Sunny 70°
FIELD PERSONNEL: Aaron Olwer
MONITORING WELL ID: X-AH5

INITIAL DATA

AO 5/9/23

Well Diameter: 4 in.
Total Depth of Well: ~~61.69~~ 61.55 ft btoc
Depth to Water: 35.09 ft btoc
Height of Water Column: 26.46 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.253 gallons
Min. Purge Volume: 86.26 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

AO 5/9/23

Start Time: 1300
Average Purge Rate (gallons/min): ~~1.5~~ 0.74
Purge Stop Time: 1458
Well Volumes Purged: 5.04
Elapsed Time: ~~58~~ 118 min
Water Quality Meter ID: N/A
Total Volume Purged: 87 gallons
Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.55 ft btoc prior to development
DTB = 61.57 ft btoc after development

Is the purgewater visually sediment free? YES ☑ NO ☐

Tubing was disconnecting from the pump, causing this development to take longer.

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697557
DATE: 5/9/23
WEATHER: ~~Sunny~~ Overcast 65°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID:

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.51 ft btoc
Depth to Water: 34.96 ft btoc
Height of Water Column: 26.55 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.318 gallons
Min. Purge Volume: 86.553 gallons (5 volumes)
Depth to Top of Screen: 21 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0900 Purge Stop Time: 0950 Elapsed Time: 50 min Total Volume Purged: 27 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.02 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS: AO 5/9/23 61.52
DTB = ~~61.52~~ ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.55 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/9/23
WEATHER: Sunny 70°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-AG7

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.57 ft btoc
Depth to Water: 34.70 ft btoc
Height of Water Column: 26.87 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.519 gallons
Min. Purge Volume: 87.595 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1050 Purge Stop Time: 1135 Elapsed Time: 45 Total Volume Purged: 88 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.02 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.57 ft btoc prior to development
DTB = 61.59 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxanna PROJECT NUMBER: 60697537
DATE: 5/10/23
WEATHER: Sunny 70°-80°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-BF2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.62 ft btoc
Depth to Water: 44.43 ft btoc
Height of Water Column: 17.19 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.208 gallons
Min. Purge Volume: 56.04 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.3 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1000 Purge Stop Time: 1045 Elapsed Time: 45 Total Volume Purged: 96 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.00 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.62 ft btoc prior to development
DTB = 61.63 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

Strong MBP odor coming off of the pump and from purge water

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Rokana PROJECT NUMBER: 60697537
DATE: 5/10/22
WEATHER: Sunny 70-80°
FIELD PERSONNEL: Aaron Auer
MONITORING WELL ID: X-BD2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.55 ft btoc
Depth to Water: ~~44.04~~ 43.99 ft btoc
Height of Water Column: 17.56 ft

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.449 gallons
Min. Purge Volume: 57.245 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: ~~0.0~~ 187.2 ppm
AD

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0820 Purge Stop Time: 0855 Elapsed Time: 35 Total Volume Purged: 58 gallons
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: 5.07 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.55 ft btoc prior to development
DTB = 61.56 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

Strong MBP odor on pump and purge water, especially while pulling out the pump.

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/10/23
WEATHER: cloudy 60-75°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: ~~V-BG2~~ V-BG2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.40 ft btoc
Depth to Water: 44.31 ft btoc
Height of Water Column: 17.09 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.1427 gallons
Min. Purge Volume: 55.7135 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: ~~1100~~ 5/10/23 1120 Purge Stop Time: 1210
Average Purge Rate (gallons/min): 1.7 Well Volumes Purged: ~~5.00~~
Elapsed Time: 50 mn Water Quality Meter ID: N/A
Total Volume Purged: 56 gallons Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.40 ft btoc prior to development
DTB = 61.42 ft btoc after development
Is the purgewater visually sediment free? YES ☒ NO ☐
Strong MGP odor on pump and purge water.

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Rovana PROJECT NUMBER: 60697537
DATE: 5/10/23
WEATHER: Sunny 70-80°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-15E2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.46 ft btoc
Depth to Water: 44.53 ft btoc
Height of Water Column: 16.93 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.038 gallons
Min. Purge Volume: 55.19 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: N.A gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 8.4 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0910 Purge Stop Time: 0950 Elapsed Time: 40 min Total Volume Purged: 56 gallons
Average Purge Rate (gallons/min): 1.6 Well Volumes Purged: ~~5.0~~ 5.07 AD 5/10/23 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.46 ft btoc prior to development
DTB = 61.47 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

Strong MGP odor on pump and purge water

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Roxana Public Works Yard PROJECT NUMBER: 60697537
DATE: 5/20/23
WEATHER: 75° Sunny
FIELD PERSONNEL: B. Hartwell
MONITORING WELL ID: X-AC3

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.80 ft btoc
Depth to Water: 42.50 ft btoc
Height of Water Column: 19.30 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 12.58 gallons
Min. Purge Volume: 62.90 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 63.00 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1320 Purge Stop Time: 1410 Elapsed Time: 50 Total Volume Purged: 70 gallons
Average Purge Rate (gallons/min): 1.4 Well Volumes Purged: 5.56 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.80 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.82 ft btoc after development

Start pump @ 1320
Stop Pump @ 1410

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/23/23
WEATHER: Sunny 70°-84°
FIELD PERSONNEL: ~~Trent~~ BS/SG/Aaron Olver
MONITORING WELL ID: X-AF3

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.51 ft btoc
Depth to Water: 35.75 ft btoc
Height of Water Column: 25.76 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 16.7955 gallons
Min. Purge Volume: 84 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0824 Purge Stop Time: 0944 Elapsed Time: 80 mins Total Volume Purged: 84 gallons
Average Purge Rate (gallons/min): 1.05 Well Volumes Purged: 5.00 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.51 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.53 ft btoc after development

Start pump @ 0824 Stop pump @ 0944

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/23/23
WEATHER: Sunny 70°-84°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-361

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 64.60 ft btoc
Depth to Water: 45.47 ft btoc
Height of Water Column: 19.13 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 12.4726 gallons
Min. Purge Volume: 62.364 gallons (5 volumes)
Depth to Top of Screen: 34 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1005 Purge Stop Time: 1035 Elapsed Time: 30 Total Volume Purged: 63 gallons
Average Purge Rate (gallons/min): 2.08 Well Volumes Purged: 5.05 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 64.60 ft btoc prior to development
DTB = 60.61 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/23/23
WEATHER: Sunny 70°-84°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-BF1

INITIAL DATA

Well Diameter: 4" in.
Total Depth of Well: 64.89 ft btoc
Depth to Water: 46.25 ft btoc
Height of Water Column: 18.64 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 12.1533 gallons
Min. Purge Volume: 60.7664 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1640 Purge Stop Time: 1120 Elapsed Time: 40 Total Volume Purged: 61 gallons
Average Purge Rate (gallons/min): 1.525 Well Volumes Purged: 5.02 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 64.89 ft btoc prior to development
DTB = 64.90 ft btoc after development Start @ 1040 Stop @ 1120

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 6/23/23 70°-84°
WEATHER: Sunny
FIELD PERSONNEL: Aaron Olver
MONITORING WELL ID: X-BD1

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 64.63 ft btoc
Depth to Water: 46.15 ft btoc
Height of Water Column: 18.45 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 12.0294 gallons
Min. Purge Volume: 60.147 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.4 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1225 Purge Stop Time: 1300 Elapsed Time: 35 Total Volume Purged: 61 gallons
Average Purge Rate (gallons/min): 1.743 Well Volumes Purged: 5.07 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 64.63 ft btoc prior to development
DTB = 64.65 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/23/23
WEATHER: Sunny 70-84°
FIELD PERSONNEL: J Aaron Oliver
MONITORING WELL ID: X-BE1

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 64.86 ft btoc
Depth to Water: 45.97 ft btoc
Height of Water Column: 18.89 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 12.3163 gallons
Min. Purge Volume: 61.5814 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NM gallons
Total Water to be Removed: NM gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.5 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1307 Purge Stop Time: 1347 Elapsed Time: 40 Total Volume Purged: 62 gallons
Average Purge Rate (gallons/min): 1.5 Well Volumes Purged: 5.03 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 64.86 ft btoc prior to development
DTB = 64.87 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/24/23
WEATHER: Sunny 75-80°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-AA10

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 103.08 ft btoc
Depth to Water: 44.32 ft btoc
Height of Water Column: 18.76 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 12.2315 gallons
Min. Purge Volume: 61.1576 gallons (5 volumes)
Depth to Top of Screen: 21 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.7 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1400 Purge Stop Time: 1530 Elapsed Time: 90 Total Volume Purged: 62 gallons
Average Purge Rate (gallons/min): ~~0.45~~ 0.6889 Well Volumes Purged: 5.06 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 65.08 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 65.10 ft btoc after development

Tubing was disconnecting from pump

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697937
DATE: 5/24/23
WEATHER: Sunny 75-80°
FIELD PERSONNEL: Aaron Olmer
MONITORING WELL ID: ~~X-AB~~ X-AA2
AO 5/24/23

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 63.97 ft btoc
Depth to Water: 43.65 ft btoc
Height of Water Column: 20.32 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 13.24864 gallons
Min. Purge Volume: 66.2432 gallons (5 volumes)
Depth to Top of Screen: 22.1 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.1 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1308 Purge Stop Time: 1350 Elapsed Time: 42 Total Volume Purged: 67 gallons
Average Purge Rate (gallons/min): 1.595 Well Volumes Purged: 5.06 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 63.97 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 63.99 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/24/23
WEATHER: Sunny 75-80°
FIELD PERSONNEL: Aaron Oliver
MONITORING WELL ID: X-BC1

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 64.75 ft btoc
Depth to Water: 38.37 ft btoc
Height of Water Column: 26.38 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.19976 gallons
Min. Purge Volume: 86 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0950 Purge Stop Time: 1040 Elapsed Time: 50 mn Total Volume Purged: 86 gallons
Average Purge Rate (gallons/min): 1.72 Well Volumes Purged: 5.00 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 64.75 ft btoc prior to development Is the purgewater visually sediment free? YES ☑ NO ☐
DTB = 64.77 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard /Roxana PROJECT NUMBER: 60697537
DATE: 5/24/23
WEATHER: Sunny 75-80°
FIELD PERSONNEL: Aaron Diver
MONITORING WELL ID: X-BB2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.59 ft btoc
Depth to Water: 36.77 ft btoc
Height of Water Column: 24.82 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 16.183 gallons
Min. Purge Volume: 81 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: NA gallons
Total Water to be Removed: NA gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.00 ppm
Wellbore PID/FID Reading: 0.00 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Blue Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0900 Purge Stop Time: 0940 Elapsed Time: 40 min Total Volume Purged: 81 gallons
Average Purge Rate (gallons/min): 2.025 Well Volumes Purged: 5.00 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.59 ft btoc prior to development Is the purgewater visually sediment free? YES ☑ NO ☐
DTB = 61.62 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Public Works Yard / Roxana PROJECT NUMBER: 60697537
DATE: 5/24/23
WEATHER: Sunny 75-80°
FIELD PERSONNEL: Aaron Olvey
MONITORING WELL ID: X-BC2

INITIAL DATA

Well Diameter: 4 in. ~~6~~ 0180
Total Depth of Well: ~~64.54~~ ft btoc
Depth to Water: 37.77 ft btoc
Height of Water Column: 27.03 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 17.629 gallons
Min. Purge Volume: 88.3 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: N/A gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 374.2 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0750 Purge Stop Time: 0840 Elapsed Time: 50 Total Volume Purged: 88.5 gallons
Average Purge Rate (gallons/min): 1.76 Well Volumes Purged: 5.01 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 64.80 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 64.98 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: BH4 Rox Pwy SEE 60697537 PROJECT NUMBER: 60697537
DATE: 6/20/23
WEATHER: 80° F Sunny
FIELD PERSONNEL: B. Howell T. Jenkins
MONITORING WELL ID: X-AB4

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 62.68 ft btoc
Depth to Water: 41.76 ft btoc
Height of Water Column: 20.92 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 13.64 gallons
Min. Purge Volume: 68.20 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 68.20 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 43.5 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0830 Purge Stop Time: 0917 Elapsed Time: 47 Total Volume Purged: 70 gallons
Average Purge Rate (gallons/min): 1.49 Well Volumes Purged: 5.13 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 62.68 ft btoc prior to development
DTB ~~44.76~~ 62.80 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: 60697537 ROX PWY SEE PROJECT NUMBER: 60697537
DATE: 6/20/23
WEATHER: 80°F sunny
FIELD PERSONNEL: T. Jenkins
MONITORING WELL ID: XMW2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 62.80 ft btoc
Depth to Water: 45.18 ft btoc
Height of Water Column: 17.62 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.49 gallons
Min. Purge Volume: 57.45 gallons (5 volumes)
Depth to Top of Screen: 24 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 57.45 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.5 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1330
Purge Stop Time: ~~1400~~ 1430
Elapsed Time: 1Hr (60 mins)
Total Volume Purged: 60 gallons
Average Purge Rate (gallons/min): 1.00
Well Volumes Purged: 5.22
Water Quality Meter ID: N/A
Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 62.80 ft btoc prior to development
DTB = 62.75 ft btoc after development
Is the purgewater visually sediment free? YES ☒ NO ☐
WELL HEAD OK

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: ~~60697537~~ Roxana Pwy SEE PROJECT NUMBER: 60697537
DATE: 6/20/23
WEATHER: Sunny 80°F
FIELD PERSONNEL: T. Jenkins
MONITORING WELL ID: X-AB1

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: ~~60.76~~ 61.76 ft btoc
Depth to Water: ~~48.13~~ 49.12 ft btoc
Height of Water Column: ~~12.63~~ 12.64 ft

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.50 gallons
Min. Purge Volume: 57.5 gallons (5 volumes)
Depth to Top of Screen: ~~25~~ 24 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 57.50 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.00 ppm
Wellbore PID/FID Reading: 1.3 ppm

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1050 Purge Stop Time: 1146 Elapsed Time: 56 min Total Volume Purged: ~~60~~ gallons
Average Purge Rate (gallons/min): 1.07 Well Volumes Purged: 5.22 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.76 ft btoc prior to development
DTB = 61.80 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Rox PWY SEE PROJECT NUMBER: 60697557
DATE: 7/25/23
WEATHER: Sunny 85°F
FIELD PERSONNEL: B. Howell
MONITORING WELL ID: X B+13

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.58 ft btoc
Depth to Water: 44.61 ft btoc
Height of Water Column: 16.97 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.06 gallons
Min. Purge Volume: 55.30 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 55.30 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0825 Purge Stop Time: 0910 Elapsed Time: 45 min Total Volume Purged: 60.00 gallons
Average Purge Rate (gallons/min): ~~0.40~~ 1.50 Well Volumes Purged: 5.42 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.58 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.61 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Box Pwy SEE PROJECT NUMBER: 60697537
DATE: 7/25/23
WEATHER: Sunny 85°F
FIELD PERSONNEL: B. Howell
MONITORING WELL ID: X-BH2

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.49 ft btoc
Depth to Water: 45.18 ft btoc
Height of Water Column: 16.31 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 10.63 gallons
Min. Purge Volume: 53.15 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 53.15 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0825 Purge Stop Time: 0910 Elapsed Time: 45 Total Volume Purged: 55.00 gallons
Average Purge Rate (gallons/min): ~~1.22~~ 1.22 Well Volumes Purged: 5.17 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.49 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.50 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: ROX PLUY SEE PROJECT NUMBER: 60697537
DATE: 7/25/23
WEATHER: 90°F Sunny
FIELD PERSONNEL: B. Howell
MONITORING WELL ID: ~~X-303~~ X-303

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.69 ft btoc
Depth to Water: 44.20 ft btoc
Height of Water Column: 17.49 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.40 gallons
Min. Purge Volume: 57.00 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

Water Added during Drilling/Installation: gallons
Total Water to be Removed: 57.00 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0935 Purge Stop Time: 1005 Elapsed Time: 30 Total Volume Purged: 60 gallons
Average Purge Rate (gallons/min): 2.00 Well Volumes Purged: 5.26 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.69 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.78 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: ROX PWY SEE PROJECT NUMBER: 606097537
DATE: 7/25/23
WEATHER: 90°F Sunny
FIELD PERSONNEL: B. Holwell
MONITORING WELL ID: ~~X-363~~ X-B63

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.61 ft btoc
Depth to Water: 44.59 ft btoc
Height of Water Column: 17.02 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.10 gallons
Min. Purge Volume: 55.50 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 55.50 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0935 Purge Stop Time: 1005 Elapsed Time: 30 Total Volume Purged: 56 gallons
Average Purge Rate (gallons/min): Well Volumes Purged: 5.05 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.65 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.65 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: ROX PWY SEE PROJECT NUMBER: 60697537
DATE: 7/25/23
WEATHER: 90° Sunny
FIELD PERSONNEL: B. Howell
MONITORING WELL ID: X-3D3

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.62 ft btoc
Depth to Water: 43.72 ft btoc
Height of Water Column: 17.90 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.67 gallons
Min. Purge Volume: 58.35 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 58.35 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1140 Purge Stop Time: 1205 Elapsed Time: 25 Total Volume Purged: 60 gallons
Average Purge Rate (gallons/min): 2.4 Well Volumes Purged: 5.14 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.62 ft btoc prior to development Is the purgewater visually sediment free? YES ☑ NO ☐
DTB = 61.64 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Rox RWY SEE PROJECT NUMBER: 60697537
DATE: 7/25/23
WEATHER: 90° F Sunny
FIELD PERSONNEL: B. Howell
MONITORING WELL ID: X-BE3

INITIAL DATA

Well Diameter: 4 in.
Total Depth of Well: 61.68 ft btoc
Depth to Water: 44.50 ft btoc
Height of Water Column: 17.18 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.20 gallons
Min. Purge Volume: 56.00 gallons (5 volumes)
Depth to Top of Screen: 46.00 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 56.00 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1140 Purge Stop Time: 1205 Elapsed Time: 25 Total Volume Purged: 60 gallons
Average Purge Rate (gallons/min): 2.4 Well Volumes Purged: 5.36 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.68 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 61.70 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: ROX RWY SEE PROJECT NUMBER: 60697537
DATE: 7/25/23
WEATHER: 90°F Sunny
FIELD PERSONNEL: B. Howell
MONITORING WELL ID: X-BC3

INITIAL DATA

Well Diameter: 2 in.
Total Depth of Well: ~~61.75~~ 61.68 ft btoc
Depth to Water: ~~42.58~~ 43.73 ft btoc
Height of Water Column: 17.95 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 11.70 gallons
Min. Purge Volume: 58.50 gallons (5 volumes)
Depth to Top of Screen: 26.10 ft btoc

Water Added during Drilling/Installation: N/A gallons
Total Water to be Removed: 58.50 gallons (5 volumes + 1x added)
Ambient PID/FID Reading: 0.0 ppm
Wellbore PID/FID Reading: 0.0 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1210 Purge Stop Time: 1240 Elapsed Time: 30 Total Volume Purged: 60 gallons
Average Purge Rate (gallons/min): 2.0 Well Volumes Purged: 5.12 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 61.68 ft btoc prior to development
DTB = 61.70 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Roxana Public Works Yard PROJECT NUMBER: 60697537
DATE: 11/10/23
WEATHER: 55°F Sunny
FIELD PERSONNEL: B. Howell

MONITORING WELL ID: X-CC5

INITIAL DATA

Well Diameter: 4 in.
Total Installed Depth of Well: 71.30 ft btoc
Depth to Water: 38.05 ft btoc
Height of Water Column: 21.68 ft
33.25

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 21.68 gallons
Min. Purge Volume: 108.40 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

~~Water Added during Drilling/Installation:~~ ~~gallons~~
Total Water to be Removed: 108.40 gallons (5 well volumes)
Ambient PID/FID Reading: 0.00 ppm
Wellbore PID/FID Reading: 0.00 ppm

PURGE DATA

Purge Method:

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1115
Purge Stop Time: 1155
Elapsed Time: 40
Total Volume Purged: 110 gallons
Average Purge Rate (gallons/min): 2.75
Well Volumes Purged: ~~HO~~ BAH 5.07
Water Quality Meter ID: N/A
Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 71.30 ft btoc prior to development
DTB = 71.32 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Roxana Public Works Yard SEE PROJECT NUMBER: 60697537
DATE: 11/10/23
WEATHER: 50°F Sunny
FIELD PERSONNEL: B. Howell

MONITORING WELL ID: X-CB3

INITIAL DATA

Well Diameter: 4 in.
Total Installed Depth of Well: 72.95 ft btoc
Depth to Water: 36.77 ft btoc
Height of Water Column: 36.18 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 23.58 gallons
Min. Purge Volume: 117.95 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

~~Water Added during Drilling/Installation:~~ ~~gallons~~
Total Water to be Removed: 117.95 gallons (5 well volumes)
Ambient PID/FID Reading: 0.00 ppm
Wellbore PID/FID Reading: 0.00 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale Pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1010
Purge Stop Time: 1100
Elapsed Time: 50
Total Volume Purged: 120.00 gallons
Average Purge Rate (gallons/min): 2.4
Well Volumes Purged: 5.08
Water Quality Meter ID: N/A
Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A
Sample Time: N/A
Analysis: N/A

COMMENTS:

DTB = 72.95 ft btoc prior to development
DTB = 72.98 ft btoc after development

Is the purgewater visually sediment free? YES ☒ NO ☐

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: Roxana Public Works Yard SEE PROJECT NUMBER: 60697537
DATE: 11/10/23
WEATHER: Sunny 45°F
FIELD PERSONNEL: B. Howell

MONITORING WELL ID: X-CB2

INITIAL DATA

Well Diameter: 4 in.
Total Installed Depth of Well: 72.96 ft btoc
Depth to Water: 37.05 ft btoc
Height of Water Column: 35.91 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 23.41 gallons
Min. Purge Volume: 117.06 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

~~Water Added during Drilling/Installation:~~ ~~gallons~~
Total Water to be Removed: 117.06 gallons (5 well volumes)
Ambient PID/FID Reading: 0.00 ppm
Wellbore PID/FID Reading: 0.00 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 0850 Purge Stop Time: 0930 Elapsed Time: 40 Total Volume Purged: 120 gallons
Average Purge Rate (gallons/min): 3.00 Well Volumes Purged: 5.12 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 72.96 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 73.00 ft btoc after development

GROUNDWATER DEVELOPMENT DATA SHEET

PROJECT NAME: ROXANA PUBLIC WORKS YARD SEE PROJECT NUMBER: 60697537
DATE: 11/9/23
WEATHER: Sunny 50°F
FIELD PERSONNEL: B. Howell

MONITORING WELL ID: X-CC1

INITIAL DATA

Well Diameter: 4 in. 72.82
Total Installed Depth of Well: ~~73.00~~ ft btoc
Depth to Water: 37.08 ft btoc
Height of Water Column: 35.74 ft

Gallons/Lin.Ft: 0.652
Vol. Of Water Column: 23.30 gallons
Min. Purge Volume: 116.51 gallons (5 volumes)
Depth to Top of Screen: 26 ft btoc

~~Water Added during Drilling/Installation:~~ gallons
Total Water to be Removed: 116.51 gallons (5 well volumes)
Ambient PID/FID Reading: 0.00 ppm
Wellbore PID/FID Reading: 0.00 ppm

(0.163 gallons/ft for 2 inch well, 1.468 gallons/ft for 6-inch well)

PURGE DATA

Purge Method: Whale pump

Purge Volume (gals)	Time	Depth to Water (ft)	Color	Odor	pH	Temp (°C)	Cond. (µmhos/cm)	Turbidity (NTUs)	DO (mg/l)	ORP (mv)

PARAMETERS NOT COLLECTED PER SOP

Start Time: 1410 Purge Stop Time: 1510 Elapsed Time: 60 min Total Volume Purged: 120 gallons
Average Purge Rate (gallons/min): 2.00 Well Volumes Purged: 5.15 Water Quality Meter ID: N/A Calibrated on: N/A

SAMPLING DATA

Sampling Method:

Sample Date: N/A Sample Time: N/A Analysis: N/A

COMMENTS:

DTB = 72.82 ft btoc prior to development Is the purgewater visually sediment free? YES ☒ NO ☐
DTB = 72.95 ft btoc after development

Appendix G – Equipment QAQC Documentation

Nome / Name	Field Testing			Autor/Author	Nicolas Bernardes		
Projeto / Project	60.0002.002 – MC2-ROX			Local / Location	Roxana-IL		
Data / Date	Sep-Oct/2023	Início/Start	NA	Término / Finish	NA	Pg.:	1/4

Clima / Weather			
☒ Ensolarado / Sunny	☐ Chuvoso / Rainy	☐ Nublado / Cloudy	☐ Tempestade / T-Storm

Nome / Name	Empresa / Company
Nicolas Bernardes	RMc²
Laerte Mandetta	RMc²
Fabiano Almeida	RMc²
Danilo Cunha	RMc²
Lucas Arna	RMc²

Testes e Resultados / Tests and Results

Main PLC Container (Container 4)

- ☑ Check voltage input (480V)
- ☑ Check 24V power supply
- ☑ Check 24V UPS power modules
- ☑ Check PLC Status
- ☑ Check ESD button
- ☑ Check panel door buttons operation
- ☑ Check solenoid valves in the air manifold
- ☑ Check all hand valves open and close and leave them as they should be by design
- ☑ Check Air compressor functionality and configuration
- ☑ Check container Lights and Fan operation
- ☑ Check analog sensors (PTs) parametrization and readings in the PLC

All tests were done with generator power.

Notes: There is a need to test telemetry system and interconnection to Mc² Server.

Test was not done as Mc² server and internet was not on site.

HEAT Exchanger Container (Container 1)

- ☑ Check 480V and 220V power to the panel
- ☑ Check 24V control power supply
- ☑ Check PLC Communication status
- ☑ Check ESD button
- ☑ Check panel door buttons operation
- ☑ Check container Lights and Fan operation
- ☑ Check all hand valves open and close and leave them as they should be by design
- ☑ Check analog sensors (PTs and TTs) parametrization and readings in the PLC

- [x] Check transfer pump rotation
- [x] Check pressure and temperature gages
- [x] Check water level switches signals and interlocks
- [x] Check PSV valves functionality

Notes: David A. Rountree noticed that some butterfly valves, when opened, touches the HEs shell. Those do not pose any operation difficulties but as a lesson for future projects!

Pressure gages needed do be equalized to ambient pressure
Leaks were fixed in the hoses.

Vaccum blower container (Cointainer 2)

- [x] Check 480V and 220V power to the panel
- [x] Check 24V control power supply
- [x] Check PLC Communication status
- [x] Check ESD button
- [x] Check panel door buttons operation
- [x] Check container Lights and Fan operation
- [x] Check all hand valves open and close and leave them as they should be by design
- [x] Check analog sensors (PTs and TTs) parametrization and readings in the PLC
- [x] Check vacuum blowers rotation
- [x] Check transfer pump rotation
- [x] Check pressure and temperature gages
- [x] Check water level switches signals and interlocks
- [x] Check PSV valves functionality
- [x] Check Pitot positioning and readings

Notes: Pitot tube was a limit istallation requirements, by the manufacturer, it is not expected to have bad accuracy on the readings.

Water Treatment Container (Container 3)

- [x] Check 480V and 220V power to the panel
- [x] Check 24V control power supply
- [x] Check PLC Communication status

- [x] Check ESD button
- [x] Check panel door buttons operation
- [x] Check container Lights and Fan operation
- [x] Check all hand valves open and close and leave them as they should be by design
- [x] Check analog sensors (PTs and TTs) parametrization and readings in the PLC
- [x] Check Air stripper blower rotation
- [x] Check transfer pumps rotation (Air Stripper and OWS)
- [x] Check Air Stripper functionality and interlocks
- [x] Check pressure and temperature gages
- [x] Check water level switches signals and interlocks (OWS and AS)
- [x] Check pneumatic pump functionality

Notes: Some leaks found in the hoses an connections during wet test. All fixed.

External equipment

- [x] Check secondary containments level switches interlocks
- [x] Check secondary containment water holding
- [x] Check all hand valves open and close and leave them as they should be by design
- [x] Check analog sensors (PTs and TTs) parametrization and readings in the PLC
- [x] Check transfer pumps rotation
- [x] Check pressure and temperature gages
- [x] Check water level switches and transducers signals and interlocks (parametrization and readings)
- [x] Check pneumatic pumps functionality
- [x] Check pitot Positioning and readings
- [x] Check FQIT readings and pulsing signals

Notes: The secondary containment were interconnected to allow greater volume. The external equipment + container 3 + After cooler were interconnected But due to floor uneveness the secondary containment test was not succesful

Prior operation aditional measures must be taken.

No leaks on the secondary containment were found.

Nome / Name	Field Testing			Autor/Author	Nicolas Bernardes		
Projeto / Project	60.0002.002 – MC2-ROX			Local / Location	Roxana-IL		
Data / Date	Sep-Oct/2023	Início/Start	NA	Término / Finish	NA	Pg.:	4/4

Overall Testing

- ☑ Check fitting and connections
- ☑ Check cable and hosing organization
- ☑ Check containers status (5S, organization and overall status)
- ☑ Check spare parts on site
- ☑ Check electrical installations (wire gages, terminations, labeling and cables integrity)
- ☑ Check hose installations (sizing, material, labeling and integrity)
- ☑ Check P&ID as built (labels and connections)
- ☑ Check overall installation

Notes: A few labels were missing on the system and already placed.

David A. Rountree asked to install a few additional sample ports to support the system operation.

Rev	Data / Date	Nome / Name	Notas / Notes
A.1.			

Appendix H – Construction Photographs

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No. 1	Week of 2/6/2023

Description:

Sonic drill rig set up in southwest portion of Area A.

Photo No. 2	Week of 2/6/2023

Description:

Sonic track rig set up on an angled boring in the southeast portion of Area A.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Week of
3	2/20/2023

Description:

Aboveground well completions in Area A facing north.

Photo No.	Week of
4	4/10/2023

Description:

New fencing with visual barrier installed along 8th Street facing southwest.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Week of
5	4/10/2023

Description:

New fencing with visual barrier installed along 8th Street facing southeast.

Photo No.	Week of
6	5/29/2023

Description:

Equipment pad prior to laying down of gravel.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Week of
7	5/29/2023

Description:

Equipment pad after gravel had been laid down and compacted..

Photo No.	Week of
8	8/21/2023

Description:

Fall protection fencing installed around the former water treatment basins that are immediately west of the gravel equipment pad.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Week of
9	9/11/2023

Description:

Gravel equipment pad with aboveground pipe racks facing northeast.

Photo No.	Date
10	9/14/2023

Description:

Preparing the equipment pad for placement of equipment.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
11	9/18/2023

Description:

Crane lift of chilling unit CH-170.

Photo No.	Date
12	9/20/2023

Description:

Assembly of SEE system process piping on equipment pad.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
13	10/2/2023

Description:

Aerial view of SEE System facing east.

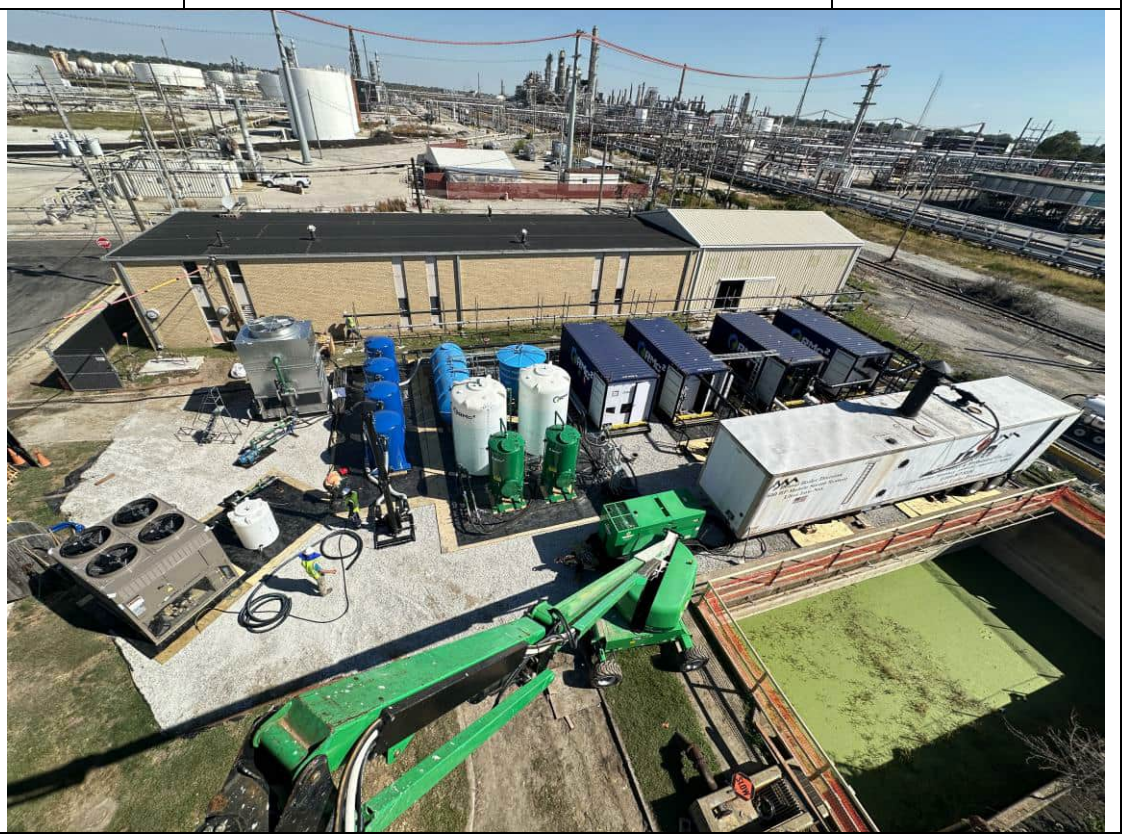

Photo No.	Date
14	10/6/2023

Description:

View of the finned heat exchanger (HE-250), and tee where well field vapor is combined with air stripper vapor.

Note – flexible gray hose between sections of hard black plastic piping was later replaced with hard black plastic piping (See Photo 52).

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
15	10/6/2023

Description:

View of steam boiler trailer.

Photo No.	Date
16	10/6/2023

Description:

View of plate heat exchanger (HE-480)

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
17	10/6/2023

Description:

Inside of the electrical control room.

Photo No.	Date
18	10/6/2023

Description:

Southern conex and knockout tank KO-100.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
19	10/6/2023

Description:

Liquid Granular Activated Carbon tanks LGAC-500 and LGAC-510

Photo No.	Date
20	10/6/2023

Description:

Light non-aqueous phase liquid (LNAPL) tank T2-410.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
21	10/6/2023

Description:

Piping rack at southeast corner of equipment pad.

Photo No.	Date
22	10/6/2023

Description:

Blue Vapor Granular Activated Carbon Tanks (VGAC-270, VGAC-275, VGAC-280 and VGAC-285) and VGACs exhaust stack (SK-290).

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No. 23	Week of 10/16/2023

Description:

View of Area B well field with pipe rack and hoses connected to wells.

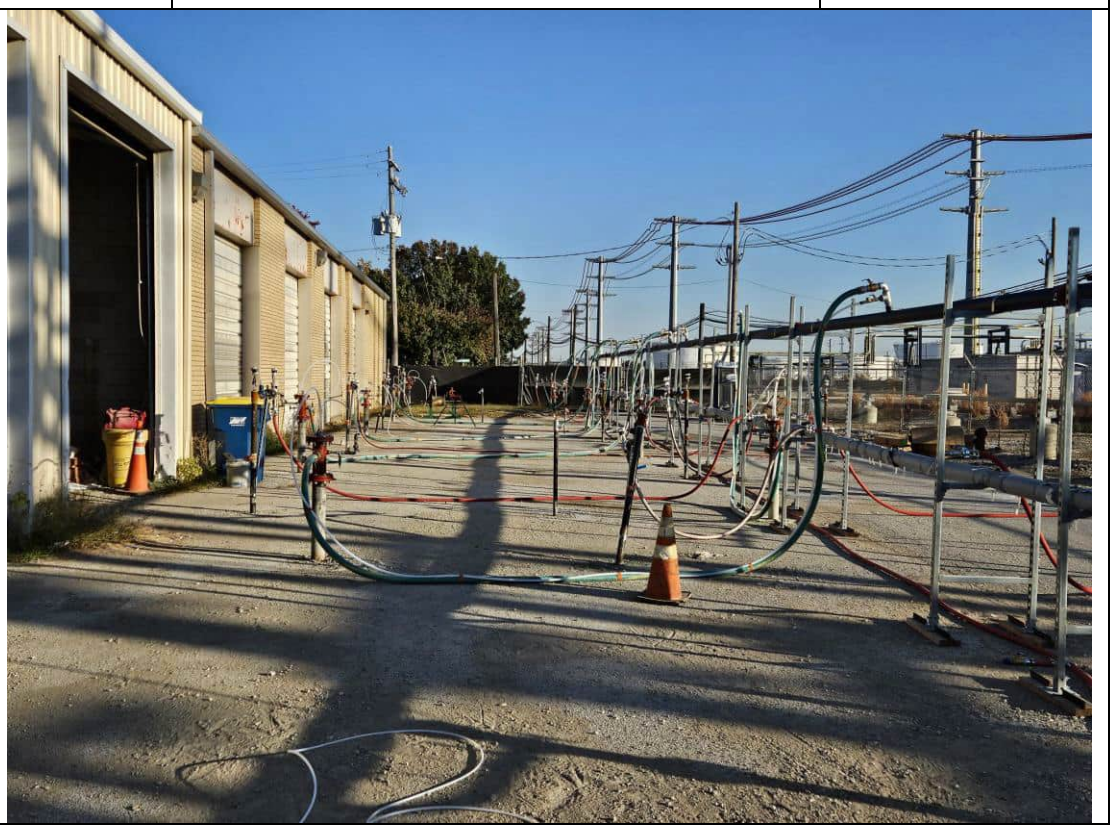

Photo No. 24	Week of 10/16/2023

Description:

Well head of extraction well X-BC3 with groundwater pump and connected hoses at the southeast portion of Area B.

Small translucent plastic hose is the pneumatic air line that powers the groundwater extraction pump that is suspended in the well.

Thicker translucent plastic hose is the groundwater extraction line.

Green hose is the vapor/condensate extraction line.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Week of
25	10/16/2023

Description:

Well head of steam injection well SI-BC4 with steam injection hose.

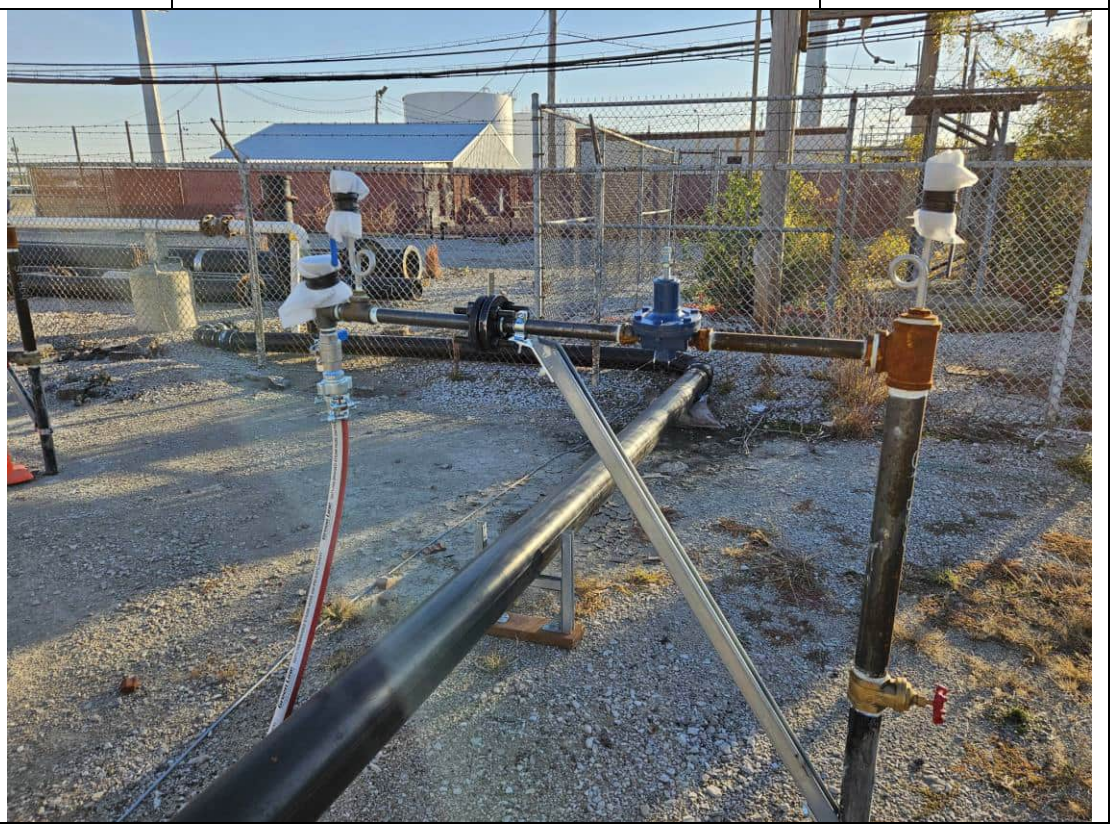

Photo No.	Week of
26	10/23/2023

Description:

Auger track rig used for drilling and installation of Area C wells.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
27	10/26/2023

Description:

Former isolation valve in Public Works Header Line at the SVE System, near the southeast portion of Area B. View is prior to removal of this valve and installation of the SEE integration valve.

Photo No.	Date
28	10/26/2023

Description:

New three-way valve for integrating SEE vapor stream into SVE System/RTO.

Note – this valve not used for SEE operation. During preliminary startup testing in April 2024 it was determined that this integration location did not provide adequate flow capabilities to the RTO, so the SEE vapor line was rerouted to connect to a different point on the RTO's piping.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
29	Week of 10/30/2023

Description:

View of Area C with some wells installed and drill rig. Facing southeast.

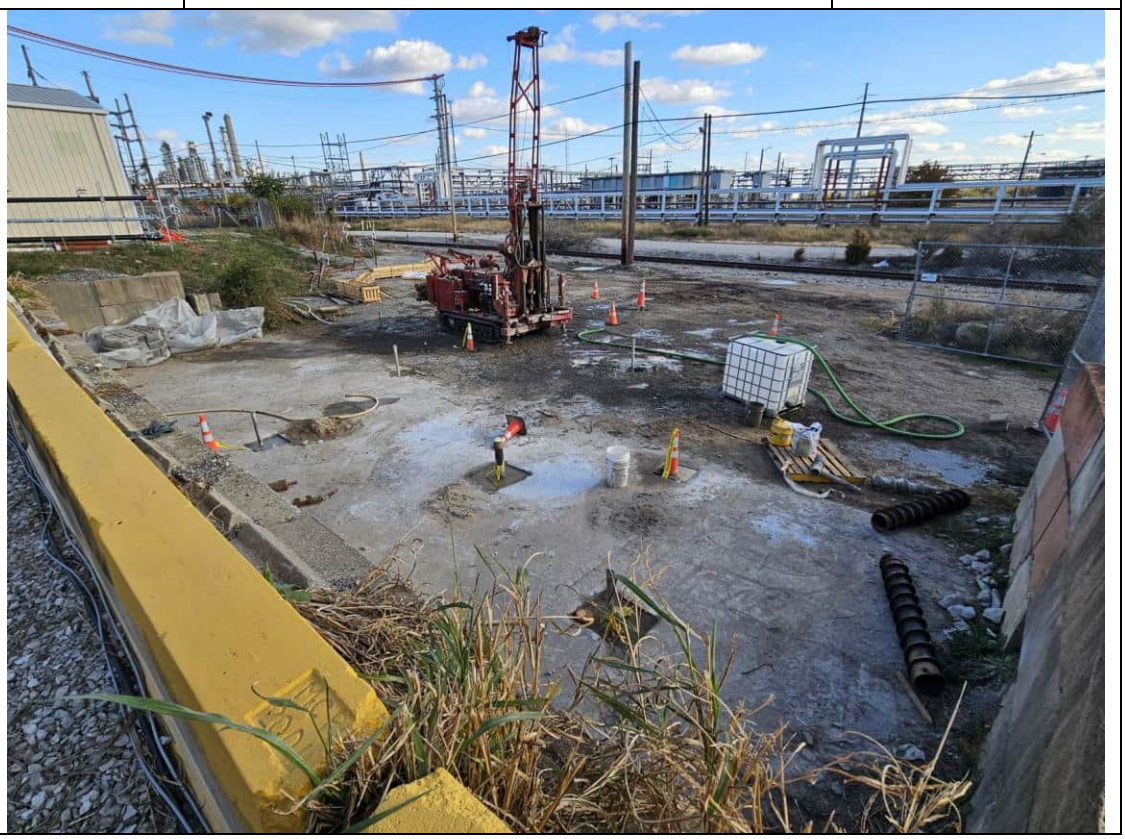

Photo No.	Date
30	Week of 11/13/2023

Description:

View of daylighting truck creating the trench for electric service line to SEE system.

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
31	Week of 12/11/2023

Description:

Pad for natural gas meter prior to pouring of concrete.

Photo No.	Date
32	3/8/2024

Description:

Natural gas meter for SEE system.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
33	3/8/2024

Description:

Aerial view of Area A, facing west over the former wastewater treatment plant basins

Photo No.	Date
34	3/8/2024

Description:

Area A header lines facing northeast.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
35	3/8/2024

Description:

Northern portion of Area A well field, pipe racks, and connecting hoses, facing north.

Photo No.	Date
36	3/8/2024

Description:

Northern portion of Area A well field, pipe racks, and connecting hoses, facing southeast.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
37	3/8/2024

Description:

Northern portion of Area A well field, pipe racks and connecting hoses, facing west.

Photo No.	Date
38	3/8/2024

Description:

Southern portion of Area A well field, facing west.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
39	3/8/2024

Description:

Area B well field, pipe rack, and connecting hoses, facing south.

Photo No.	Date
40	3/8/2024

Description:

Area B well field, pipe rack, and connecting hoses, facing southwest.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
41	3/8/2024

Description:

Southern portions of Areas B, C and A, facing west.

Photo No.	Date
42	3/8/2024

Description:

Area C well field and connecting hoses, facing south.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
43	3/8/2024

Description:

SEE System office trailer in the northern portion of Area A, facing northwest.

Photo No.	Date
44	Week of 3/15/2024

Description:

Fabrication of the natural gas line that feeds the steam boiler.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
45	3/8/2024

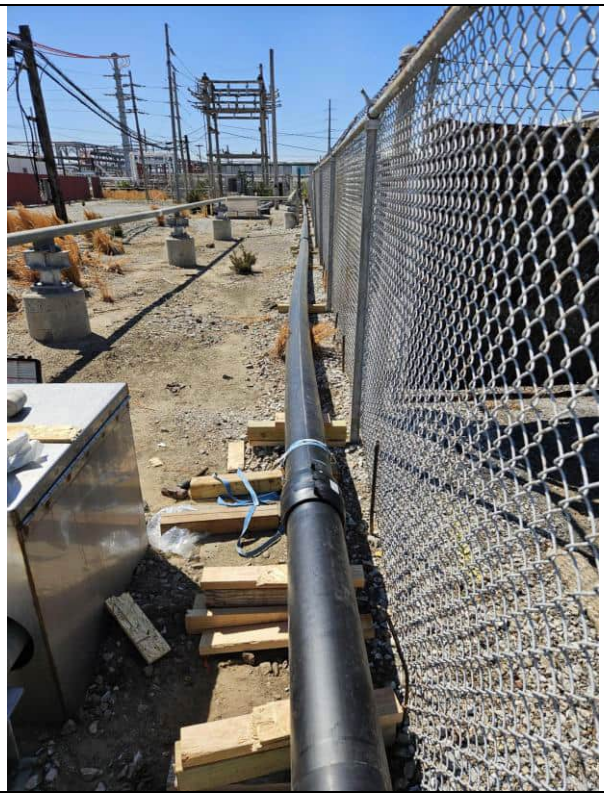
Description:

View of natural gas line from meter to steam boiler, facing north.

Photo No.	Date
46	4/22/2024

Description:

SEE vapor conveyance piping, inside the WRR facing south (upstream).



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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
47	4/22/2024

Description:

SEE vapor conveyance piping, inside the WRR facing east toward RTO (downstream).

Photo No.	Date
48	5/28/2024

Description:

Flange added to RTO piping in preparation for SEE vapor line tie-in.

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PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
49	Week of 6/10/2024

Description:

SEE vapor conveyance piping tie-in location at RTO.

Photo No.	Date
50	7/24/2024

Description:

Power distribution panel (PDP) on left. Water supply insulated housing on right.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
51	7/24/2024

Description:

Sequestering agent tanks at north end of equipment pad, facing east.

Photo No.	Date
52	9/18/2024

Description:

View of the finned heat exchanger (HE-250), and tee where well field vapor is combined with air stripper vapor.

AECOM

PHOTOGRAPHIC LOG

Client Name:	Site Location:	Project No.
Shell	Former Public Works Yard	60697537

Photo No.	Date
53	9/24/2024

Description:

Vapor line booster blower at southern end of Area B, facing north.

Photo No.	Date
54	9/24/2024

Description:

Water supply booster pump box at north end of equipment pad, facing south.

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20th Floor
St. Louis, MO 63102

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