Groundwater Pre-Design Investigation Report
Dzus Fastener Company Inc. Site
West Islip, New York
Site No. 152033

Prepared for

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7012

NEW YORK STATE | Department of Environmental Conservation

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November 2024
Version: FINAL
EA Project No. 16025.15

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LIST OF ACRONYMS AND ABBREVIATIONS

°C	Degrees Celsius
µg/L	Microgram(s) per liter
µS/cm	Microsiemen(s) per centimeter
%	Percent
ASTM	American Society for Testing and Materials
AWQS	Ambient Water Quality Standard
bgs	Below ground surface
COC	Contaminant of concern
CSM	Conceptual site model
DO	Dissolved oxygen
Dzus	Dzus Fastener Company, Inc.
EA	EA Engineering, P.C. and its affiliate EA Science and Technology
EC	Electric conductivity
E_H	Redox potential
EPA	U.S. Environmental Protection Agency
EVS	Earth Volumetric Studio Version 2024.3.0.0
FS	Feasibility Study
ft	Foot (feet)
ft^2	Square foot (feet)
ft/day	Foot (feet) per day
$g/d/ft^2$	Gram(s) per day per square foot (feet)
GWB	Geochemist Workbench
GWS	Groundwater Sampler
HPT	Hydraulic Profiling Tool
in.	Inch(es)
IRM	Interim Remedial Measure
ISB	In-situ boring
ISS	In-situ stabilization/solidification
K	Hydraulic conductivity
kg/yr	Kilogram(s) per year
LAWES	Land, Air, Water Environmental Services
LMS	Lawler, Matusky and Skelly Engineers

mg/kg	Milligrams per kilogram
mg/L	Milligram(s) per liter
mV	Millivolt(s)
N.H.E.	Normal hydrogen electrode
NTU	Nephelometric turbidity unit
NYSDEC	New York State Department of Environmental Conservation
ORP	Oxidation-reduction potential
OU	Operable unit
PDI	Pre-Design Investigation
PRB	Permeable reactive barrier
RI	Remedial investigation
ROD	Record of Decision
SCG	Standards, criteria, and guidance
SCO	Soil Cleanup Objective
Site	Dzus Fastener Company Inc. Site
TAL	Target Analyte List

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1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) were tasked by the New York State Department of Environmental Conservation (NYSDEC) under Work Assignment No. D009806-15 to complete this Groundwater Pre-Design Investigation (PDI) Report as part of site management activities at the Dzus Fastener Company, Inc. Site (152033) (the Site). The former Dzus Fastener Company, Inc. facility is located at 425 Union Boulevard, West Islip, Suffolk County, New York. The Site is comprised of six operable units (OUs) (**Figure 1**); OU1, the former source area, consisting of stabilized areas of soil at the location of the former Dzus Fastener Company Inc. facility; OU2, included sediments in a portion of Willetts Creek adjacent to the Beach Street Middle School footbridge, Lake Capri, and groundwater downgradient of the facility; OU3, the soil and sediment along and within a portion of Willetts Creek; OU4, the soil and sediment along and within a portion of Willetts Creek and Lake Capri; OU5, tidal portion of Willetts Creek located south of Montauk Highway; and OU6, documents the Resource Conservation and Recovery Act closure of the former Dzus facility.

1.1 SITE HISTORY

The Dzus Fastener Company, Inc. (Dzus) (incorporated in the State of New York in 1936) produced fasteners and springs beginning in 1932. Operations included the design and manufacture of ¼-turn fasteners, quick-acting latches and panel strips in steel, stainless steel, aluminum, and plastic for use in military and commercial aerospace, transportation, electronics, air handling, refrigeration, motor control, and computer industries to secure access panels, covers, or detachable components. The facility changed its name from Dzus Fastener Company, Inc. to DFCI Solutions, Inc. in 2001, but operations did not change. In 2015, DFCI Solutions, Inc. ceased operations and moved all equipment out of the facility. The former facility buildings were demolished in 2019, and the property is currently undergoing redevelopment.

Wastes from metal plating, tumbling, electroplating, chromic acid, anodizing, and special finishing operations consisted of oils, heavy metals, volatile organic compounds, and salts. Leaching pools at the facility were used for the disposal of hazardous waste. Environmental releases of contamination from facility operations were originally identified in 1982 and a preliminary site assessment was completed in 1984. A Phase I Investigation was completed by the NYSDEC in 1984, and a Phase II Investigation report was submitted by Dzus in August of 1990. An Interim Remedial Measure (IRM) was completed by Dzus in Spring 1991, during which approximately 1,960 cubic yards of contaminated soil from the industrial leach field area was removed.

Under the State Superfund Program, the NYSDEC initiated a remedial investigation (RI)/Feasibility Study (FS) in May 1992 to determine the nature and extent of contamination attributable to the Site and develop an appropriate remedy (Lawler, Matusky and Skelly Engineers [LMS] 1994). During RI activities, several areas with cadmium contamination were identified. While the 1991 IRM removed contaminated soil, the RI found some remaining soil to be contaminated with cadmium, trivalent chromium (Cr III), and cyanide. Groundwater also contained concentrations of cadmium, chromium, cyanide, and volatile organic compounds (primarily trichloroethene, tetrachloroethene, and 1,1,1-trichloroethane) above NYSDEC standards. Additionally, surface water and sediment samples collected downgradient of the source area contained cadmium at concentrations greater than their respective NYSDEC standards or guidance. A list of relevant site remedial history is provided below while a more detailed summary of the work completed at the site to date is included in the Site Management Plan (EA 2023a).

- OU1 (Source Area):
  - An IRM conducted in 1991 removed a leach pool in the eastern portion of the site.
  - The remedy selected in the March 1995 ROD for OU1 was in situ stabilization/solidification (ISS) for on-site soil that was contaminated with cadmium at concentrations greater than 10 ppm. The ISS remedy was completed in December 1996.
  - A topsoil/asphalt cover was implemented in 1997 at the eastern portion of the site to protect the ISS treatment cells from erosion. This cap was removed in 2021 as part of site redevelopment and was temporarily replaced with a geomembrane material in October 2022 before an asphalt cover was placed in December 2023.

- OU2, OU3, and OU4 (Willetts Creek and Lake Capri):
  - The October 1997 ROD for OU2 required the removal of contaminated sediments from Lake Capri and Willetts Creek, as well as the use of erosion controls to protect the creek from further contamination caused by erosion.
  - Bank soil exceeding Unrestricted Use SCOs for cadmium and chromium were removed from Willetts Creek in 2019.
  - Sediments above Class A SGVs were removed in 2019 from Willetts Creek and Lake Capri, and Willetts Creek was restored to a stable riparian corridor following the remedial action.
  - A long-term groundwater monitoring program was put in place to evaluate the effectiveness of the remedy completed at OU1.

1.2 CURRENT CONDITIONS

The primary contaminants of concern (COCs) at the Site are cadmium and chromium. Sampling results from the post-remediation groundwater sampling event in October 2021 indicated a rebound of cadmium concentrations in shallow groundwater as demonstrated by the 547 micrograms per liter (µg/L) observed in monitoring well MW-13A; up from 2.3 µg/L observed in November 2018. Groundwater at the Site flows in a south-southwest direction with the upper shallow portion of the surficial aquifer seeping into Willetts Creek. Cadmium in the shallow groundwater plume is impacting clean backfill material, placed during the remedial action along the Creek in 2019, as evidenced by sediment exceedances of Class A Sediment Guidance Values in the upper reaches of Willetts Creek. Cadmium in sediment post-remediation has been detected up to 280 milligrams per kilogram (mg/kg) in the former hotspot area, above the 1 mg/kg guidance value. Additional groundwater sampling events were conducted in July 2022, October 2022, January 2023, March 2023, June 2023, November 2023, April 2024, and June 2024 with cadmium concentrations remaining elevated during each of those events (EA 2023b, 2023c, 2023d). Sediment and surface water were collected in all but the October 2022 event in order to monitor and delineate impacts within the creek.

Remedial Action Objectives for the Site are defined in the OU-specific Record of Decision (ROD) documents. Groundwater at the Site is covered under the October 1997 ROD for OU2 set forth to manage contaminated groundwater to prevent human exposure and to minimize impacts to the environment (NYSDEC 1997). Willetts Creek, Lake Capri, and groundwater in the area are not used as a source of potable water. Potable water in the area is supplied by the Suffolk County Water Authority. As such, the primary receptors that would be impacted by groundwater and therefore act as sources of human and ecological exposure are surface water and sediment in Willetts Creek.

Cadmium concentrations associated with the dissolved phase cadmium plume have increased to concentrations beyond historical maximums. Long-term monitoring continues in order to evaluate the effectiveness of the remedy. The highest concentration of cadmium in groundwater was observed at monitoring well MW-13A, located approximately 415 feet (ft) downgradient of the former Dzus facility. Monitoring well MW-13A is a shallow well, screened between 5 and 10 ft below ground surface, and it is likely that groundwater at this depth is contributing to the flow in Willetts Creek and the exceedances of applicable standards or guidance noted in sediments and surface water are the result of migration of cadmium from groundwater. It is important to note that there is a very limited number of monitoring wells, and that the extent of the cadmium plume has historically not been well defined either vertically or laterally.

1.3 SCOPE OF WORK

This phase of the site investigation was designed to provide the information necessary to evaluate the continuing source of cadmium and chromium contamination, update the current conceptual site model (CSM) for the site by better defining the extent of groundwater contamination both vertically and horizontally, and inform an IRM for groundwater.
The PDI scope included:

- Utility Clearance
- Borehole Advancement and In-Situ Groundwater Sampling
- Groundwater Monitoring Well Sampling
- Synoptic Well Gauging
- Soil Sampling
- Hydraulic Conductivity Testing

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2. GROUNDWATER INVESTIGATION

The PDI work was completed in May and June 2024. EA's subcontractor for the drilling effort was Land, Air, Water Environmental Services (LAWES). Laboratory analysis was completed by Pace Analytical Laboratory in East Longmeadow, Massachusetts.

2.1 FIELD ACTIVITIES

2.1.1 In-Situ Groundwater Sampling

Prior to field activities, LAWES contacted Dig Safe New York to mark out public utilities. The driller provided copies of Dig Safe New York notifications and responses to EA. A total of 25 in-situ boring (ISB) groundwater sampling points were advanced to an approximate depth of 45 ft below ground surface (bgs) under the full-time supervision of an EA geologist and then sampled during the 2024 PDI groundwater investigation event (**Figure 2**). At each location, LAWES hand-cleared 5 ft bgs to confirm no utility interference existed. Soil logging and classification was completed at each location. Soil borings were installed with Geoprobe® via direct push technology, and in-situ groundwater samples were collected with an SP-16 screen sampler using a bottom-up approach. The SP-16 sampler was driven to a depth of 45 ft and then pulled up to 40 ft bgs, allowing the SP-16 sample screen to be exposed, for the collection of the first in-situ groundwater sample. Each subsequent in-situ groundwater sample was collected in 10 ft intervals while pulling up from the bottom of the borehole. A summary of in-situ groundwater samples collected is shown in **Table 1**. Groundwater quality parameters (temperature, pH, conductivity, oxidation-reduction potential [ORP], turbidity, and dissolved oxygen [DO]) were collected using a Horiba U-52 water quality meter and recorded in the in-situ groundwater sampling forms. Soil boring logs, in-situ groundwater sampling forms, and the field logbook are provided in **Appendix A**.

A peristaltic pump with high-density polyethylene tubing was used to purge three well volumes from each well before collecting groundwater samples for analysis of both filtered and unfiltered Target Analyte List (TAL) Metals by U.S. Environmental Protection Agency (EPA) Method 6010 and mercury by EPA Method 7470. A set of water quality parameters was recorded prior to sample collection. Boreholes were backfilled to the ground surface with a bentonite grout mixture and were restored to match existing surface conditions. Soil cuttings and liquid investigation-derived waste were containerized for off-site disposal in Department of Transportation approved and labeled 55-gallon drums.

2.1.2 Soil Sampling

Five locations focused along the percieved centerline of the plume (adjacent to the MW-9 cluster, at ISB-A5, adjacent to the MW-13 cluster, at ISB-B5, and at ISB-D3) were selected for soil sampling in addition to groundwater (**Figure 2**). The soil borings were advanced using a direct push method via Geoprobe® macro-core following American Society for Testing and Materials (ASTM) International D6282M-14 protocols for soil sampling. One subsurface soil sample was collected from the soil/water interface to determine if soil is impacted within the capillary fringe zone (water fluctuation zone). A second subsurface sample was collected 10 ft below the soil/water interface to target soil within the shallow aquifer, the zone with known groundwater contamination. Subsurface soil samples were analyzed for TAL metals (EPA Method 6010B), mercury (EPA Method 7471), total organic carbon (EPA Method 9060), and grain size (ASTM-D422).

2.1.3 Monitoring Well Sampling and Geochemical Analysis

In addition to the in-situ groundwater sampling, the second quarter site management groundwater sampling effort was completed 17-18 June 2024. This effort included synoptic gauging and the sampling of the 15 existing network monitoring wells for TAL metals. Potentiometric surface contours were developed for both shallow and deep monitoring wells (**Figures 3 and 4**). Groundwater samples from locations ISB-A5 and ISB-B5 were also analyzed for total organic carbon via EPA Method 9060A, sulfate via EPA Method 375.4, nitrate/nitrite and chloride via EPA Method 9056A.

2.1.4 Hydraulic Conductivity Testing

EA performed in-situ hydraulic conductivity tests (i.e., slug tests) at a subset of existing monitoring well locations (MW-13A, MW-13B, MW-15A, MW-15B, MW-22A, and MW-22B,) on 18 June 2024 (**Figure 2**). These tests provide data on characteristics of the water-bearing zones and allow EA to better estimate and model the mass flux of site COCs by refining the hydraulic conductivity based on field data. Slug test data were collected and recorded using a logarithmic scale starting with every 0.25 second utilizing an In-Situ Level Troll 700 transducer. The slug test data were analyzed using AQTESOLV Pro (Version 4.50.002), with appropriate models for wells in unconfined aquifers. Static water levels were measured at each well location prior to testing. To execute the slug tests, a vented pressure transducer/data logger (15 pounds per square inch) was placed into each well and a mechanical slug was then lowered into the well to displace a known and fixed volume of water. The transducer continuously recorded the water level in the monitoring well as the hydraulic head is decreased during the falling head test. Data logging continued as the hydraulic head increased during the rising head test in response to removal of the slug until the water level within the monitoring well again reached equilibrium. The slug test data was analyzed using the Bouwer-Rice (1976) method for monitoring wells screened within an unconfined aquifer and were matched to the formational response compared to the filter pack response.

Slug test measurements and hydraulic conductivity (K) values are summarized in **Table 2**. Tables summarizing general and well-specific input assumptions and AQTESOLV output files are included in **Appendix B**. MW-22A is screened across the water table, therefore only a rising head test was analyzed at this well.

2.2 GROUNDWATER SAMPLING RESULTS

The site COCs are the heavy metals cadmium and chromium. The NYSDEC Ambient Water Quality Standards (AWQS) Class GA for cadmium and chromium are specifically intended to regulate these heavy metals for the protection of groundwater as a source of drinking water. It is important to note that site groundwater is not used as a source of drinking water. The AWQS for cadmium is 5 µg/L while the chromium standard is set at 50 µg/L.

Dissolved cadmium was detected above the NYSDEC AWQS of 5 µg/L in 32 of 108 groundwater samples. Detected dissolved cadmium concentrations ranged from 1.6 µg/L (ISB-B6-GW-21-25) to 770 µg/L (ISB-B5-GW-11-15). Total cadmium concentrations generally were higher than co-located dissolved cadmium concentrations, 69 of 108 samples had total cadmium concentrations in exceedance of 5 µg/L. Detected total cadmium concentrations ranged from 1.5 µg/L (ISB-A1-GW-41-45) to 2,500 µg/L (ISB-A9-GW-11-15). Generally, the greatest cadmium concentrations are observed to be in shallow samples (depth range of 11 to 15 ft bgs) in the vicinity of Captree Plaza, both upgradient and downgradient of the building. One exception was the elevated concentration observed in sample ISB-C1-GW-11-15 (690 µg/L) which is located due west of Captree Plaza in the center of the Stop & Shop Plaza parking lot. In general, cadmium concentrations of PDI samples are higher than previously reported groundwater monitoring well samples collected during routine site management sampling efforts. Dissolved and total cadmium concentrations in groundwater samples collected during the PDI field effort are presented on **Figures 5 and 6**.

Dissolved chromium was detected above the NYSDEC AWQS of 50 µg/L in 1 groundwater sample. Detected dissolved chromium concentrations ranged from 6.9 µg/L (ISB-B8-GW-11-15) to 510 µg/L (ISB-B1-GW-4-8). 106 of the 108 groundwater samples were non-detect for dissolved chromium. Total chromium concentrations generally were higher than co-located dissolved chromium concentrations, 108 of 108 samples had total chromium concentrations in exceedance of 50 µg/L. Detected total chromium concentrations ranged from 54 µg/L (ISB-B6-GW-41-45) to 3,900 µg/L (ISB-B4-GW-31-35). The spatial distribution of total chromium within the sample dataset does not appear to be confined to any specific depth or area around the Site. In general, chromium concentrations of PDI samples are higher than previously reported groundwater monitoring well samples collected during routine site management sampling efforts. Dissolved and total chromium concentrations in groundwater samples collected during the PDI field effort are presented on **Figures 7 and 8**.

Other TAL metals that exceeded NYSDEC AWQS include antimony, arsenic, barium, beryllium, copper, iron, lead, manganese, mercury, selenium, sodium, and thallium. Generally, the unfiltered samples yielded higher concentrations of these metals than the filtered samples. Additionally, these other TAL metal concentrations were found to be greater than concentrations observed in previously reported groundwater monitoring well samples collected during routine site management sampling efforts. Analytical results for TAL metals, including cadmium and chromium, and the applicable standards, criteria, and guidance (SCGs) are presented in **Table 3**. A condensed analytical summary of cadmium and chromium groundwater results is presented in **Table 4**.

Samples analyzed for natural attenuation parameters were ISB-A5-GW-21-25 and ISB-B5-GW-31-35. Chloride, nitrate (as nitrogen), sulfate, and total organic carbon were detected in both samples. Nitrite (as nitrogen) was not detected in either sample. Chloride concentrations ranged from 10 milligrams per liter (mg/L) to 20 mg/L. Nitrate concentrations ranged from 1.1 mg/L to 1.8 mg/L. Sulfate concentrations ranged from 6.7 mg/L to 13 mg/L. Total organic carbon concentrations ranged from 0.58 mg/L to 0.82 mg/L. Natural attenuation parameter analytical results are shown in **Table 5**.

Geochemical parameters were measured prior to collection of each in-situ groundwater sample. Temperature in groundwater samples ranged from 12.66 degrees Celsius (°C) to 22.80°C. pH in groundwater samples ranged from 5.03 to 7.66. Specific Conductivity in groundwater samples ranged from 0.132 microsiemens per centimeter (µS/cm) to 1.31 µS/cm. ORP in groundwater samples ranged from -129 millivolts (mV) to 194 mV. Turbidity in groundwater samples was generally high, ranging from 129 nephelometric turbidity units (NTU) to greater than 1,000 NTU. Dissolved oxygen in groundwater samples ranged from 0.00 mg/L to 10.98 mg/L. A summary of geochemical parameters in groundwater samples is provided in **Table 6**.

2.3 SOIL SAMPLING RESULTS

Soil analytical results from the PDI sampling effort are compared to NYSDEC Commercial Soil Cleanup Objectives (SCO). The Commercial SCO for cadmium is 3.7 mg/kg, the Commercial SCO for chromium is 1,700 mg/kg. One sample (MW-13A-SO-14-15) had cadmium concentrations (6.4 mg/kg) in exceedance of the Commercial SCO. Cadmium concentrations in other soil samples ranged from non-detect to 3.0 mg/kg. Chromium was detected in soil samples ranging from 1.4 mg/kg to 6.7 mg/kg, with no exceedances of Commercial SCOs. Soil analytical results and applicable SCGs are presented in **Table 7** and **Figure 9**.

2.4 ENVIRONMENTAL VISUALIZATION SOFTWARE MODELING

Three-dimensional interpolated groundwater plumes were developed using a kriging method within C-Tech Corporation’s Earth Volumetric Studio (EVS) software Version 2024.3.0.0. Kriging is an interpolation method used within the groundwater contaminant plume model to predict data or values at locations in which data are unknown. Kriging was used because groundwater contaminant concentrations often possess an inherent anisotropy (meaning that the data are more correlated in one direction than in other directions) due to physical dynamics, such as groundwater flow and lithology, which may influence the spatial distribution of contamination. The correlation of the modeled data is quantified by calculating the variance between pairs of points across the dataset. When plotted against the distance between pairs, the set of points results in an experimental variogram model which describes how the data are correlated relative to each other. The regression curve which is selected to fit the data is referred to as the theoretical variogram model which is used to interpolate between known points. C-Tech Corporation’s Earth Volumetric Studio was utilized to (1) sort and bin the data to produce the experimental variogram needed to interpolate between known points, and (2) regress the theoretical variogram model to quantify the data.

Concentration data for dissolved and total cadmium from the groundwater pre-design investigation sampling effort were interpolated to 80% confidence using the Kriging method. Non-detect sample results were input as one tenth (0.15 µg/L) of the detection limit of 1.5 µg/L for cadmium. Groundwater monitoring well sample results from the June 2024 site management sampling event were included in the dataset as well. Analytical data from MW-17 to the north of OU1 and MW-18 to the south were essential for defining the edges of the plume. A single control point with concentration value of 0.15 µg/L was placed to the northwest of OU1 to establish a “source” point for the plume to prevent “ballooning” of the model to the north. A spherical variogram model was used and a directional anisotropy ratio was imposed on the model to reflect the dominant south-southwest groundwater flow direction. Snapshots of the three-dimensional models used to evaluate total and dissolved cadmium are included for reference (**Figure 10**). Once the three-dimensional interpolated cadmium groundwater plume was displayed, the plume was subset to 5 µg/L, 25 µg/L, 100 µg/L, and 250 µg/L concentration bins. These subset concentration bins were then exported as two-dimensional vector GIS files and loaded into Esri's ArcGIS Pro software Version 3.0.2 for use in traditional plan-view plume maps and cross-sections (**Figures 11 through 14**).

The primary takeaway from the modeling exercise is that cadmium contamination at the Site is not delineated to the south of the investigation area. Detections above 25 µg/L for cadmium at ISB-B1 and ISB-D1 indicate that contamination has migrated to the south of the source. As there were no samples collected to the east of Willetts Creek, there is a lower level of confidence in the 5 µg/L contour. Additionally, the relatively low concentrations observed in ISB-B2 contrast the higher concentrations observed in samples at ISB-B1 and ISB-B3. The resulting bifurcation of the 25 µg/L contour is unlikely to represent real-world distribution of the contaminant in the aquifer. A lack of data points within and upgradient of the OU1 boundary results in a non-ideal estimation of the bounds on the cadmium plume to the north of the investigation area. Further refinement in the model can be achieved with additional sample points in areas of low confidence (discussed more in Section 4).

2.5 CADMIUM MASS FLUX EVALUATION

Mass flux is a rate measurement specific to a unit area, which is generally a cross-section of a dissolved-phase contaminant plume that lies perpendicular to groundwater flow. Mass flux is expressed as a mass/time/area (e.g., gram[s] per day per square foot [feet] [$g/d/ft^2$]) unit and combines two key features of a contaminant plume: (1) how much contaminant is in the groundwater (dissolved phase), and (2) how fast groundwater is moving through a unit cross-sectional area.

Mass flux is calculated using the equation below:

$$Mass\ Flux\ (J) = (C)(K)(i)$$

Where:

Where:	J	= Mass Flux of the grid-plane (grams per day per square foot [$g/d/ft^2$])
	C	= Cd concentration (mg/kg)
	K	= Hydraulic conductivity of the geologic unit (foot [feet] per day [ft/day])
	I	= Hydraulic gradient (foot [feet] per foot [ft/ft])

EVS was used to calculate mass flux and mass discharge across three transects along the total and dissolved cadmium plumes presented on **Figure 10**. Several assumptions were made during the mass flux evaluation:

- A vertical saturated zone of 50 ft was used for each location which is slightly deeper than the deepest in-situ boring depth (~45 ft bgs). Each transect was confined to a 600 ft lateral length across the plume for a total cross-sectional area of 30,000 square feet (ft^2) per transect. Using EVS, the cross section was then divided into 1-ft by-1-ft segments where only segments exhibiting cadmium concentrations were used to calculate mass flux and discharge.

- Geology observed on site has been consistently uniform, therefore a constant hydraulic conductivity of 400 ft/day was used to determine mass flux across the previously mentioned cross-sections. The hydraulic conductivity value was approximated from the slug tests collected (18 June 2024) and provides a conservative estimate of the range of conductivities observed (range). Additionally, an estimated porosity of 0.32 was used which was derived from previous investigatory efforts (LMS 1994), however, it is recommended that the soil porosity be updated during the expected drilling effort required to more completely delineate the cadmium and chromium plume.

- Hydraulic gradients were determined using the groundwater elevations from monitoring wells (June 2024) and ISB locations (May 2024) and were evaluated in both the upgradient portion (Between ISB-A5 and ISB-C2 = 0.00513 ft/ft) and downgradient portions (Between ISB-C2 and ISB-C1 = 0.00511 ft/ft) of the site. Both the upgradient and downgradient calculations were similar, therefore a uniform hydraulic gradient of 0.005 ft/ft was used to determine mass flux along each transect.

Since both the hydraulic conductivity and the hydraulic gradient were held constant, mass flux, and subsequently mass discharge, is driven primarily by cadmium concentrations moving through the aquifer which indicates where high flux regions are within the aquifer (**Figures 13 and 14**). The regions with the highest mass flux are centered around the highest concentrations observed in the 11 – 15 ft bgs points at ISB-A7 and ISB-B8 on transect A-A’, the 11-15 ft bgs points at ISB-B5 along transect B-B’, and the 11-15 ft bgs point at ISB-C1 along transect C-C’.

Mass discharge (kilograms per year [kg/yr]) was calculated to determine the amount of total and dissolved cadmium moving through each transect which are as follows: Transect A-A’ – Total Cd = 28 kg/yr, Dissolved Cd = 7 kg/yr, Transect B-B’ – Total Cd = 33 kg/yr, Dissolved Cd = 7 kg/yr; and Transect C-C’ – Total Cd = 22 kg/yr, Dissolved Cd = 7 kg/yr. Total cadmium discharge was much higher than dissolved cadmium discharge, however, results for dissolved cadmium are more consistent with cadmium concentrations observed from monitoring well groundwater samples.

In comparison to the previously submitted mass flux memos this evaluation encompasses a substantially larger volume of the aquifer and represents a much larger amount of mass moving within the plume (EA 2019, 2022, 2023e). The previous cross-sectional area was confined to a 2 ft vertical interval and a 300 ft lateral extent which was identified as the plane most likely to be interfacing with Willetts Creek through MW-13A. Here, these transects were confined to the saturated thickness of the aquifer evaluated during the PDI and provide an evaluation of cadmium flux throughout the entire aquifer, not just what was anticipated to communicate with Willetts Creek. In addition, the hydraulic conductivity and gradient values used for the previous mass flux evaluations (120 ft/day and 0.0085 ft/ft respectively) were different than the values used here, where the hydraulic conductivity is higher than what was previously used, and the hydraulic gradient was slightly lower than the previously calculated value. The difference between these values is expected to increase the overall mass flux as the increase in hydraulic conductivity is much greater than the decrease in hydraulic gradient.

2.6 GEOCHEMICAL EVALUATION

Cadmium and chromium are each influenced by the presence of redox active geochemical species such as sulfates/sulfides, and carbonates. Geochemist's Workbench version 17.0 (GWB) was used to create redox potential (E_H) vs. pH diagrams, also known as Pourbaix diagrams, which portray the relative stability of different species as a function of oxidation reduction potential (Y-axis) and pH (X-axis) for both cadmium and chromium at relevant environmental conditions to the site (Sulfate [SO_4^-] activity = 10^{-7}, Bicarbonate [HCO_3^-] activity = 10^{-7}, Cadmium/Chromium activity = 10^{-7}). Cadmium is not redox active (i.e., the oxidation state will not change over environmentally relevant conditions), however the solubility of cadmium is controlled by the presence of sulfide and carbonate, as well as the precipitation of the minerals Greenockite ($CdS_{(s)}$) and Otavite ($CdCO_{3(s)}$) (Kubier et al. 2019). In comparison, chromium is redox active with two common oxidation states (hexavalent [Cr VI] and trivalent [Cr III]) where the solubility of chromium is partly controlled by the presence of iron and sulfide species (Palmer and Wittbrodt 1991). Groundwater quality data collected during the June 2024 sampling event were used to compare site conditions with the thermodynamically modelled stability of these two metals for four monitoring wells (MW-9, MW-13A, MW-15A, and MW-23A) (**Appendix C**). ORP measurements made in the field were converted to potentials measured using a normal hydrogen electrode (N.H.E.) for evaluation using GWB with the following equation:

$$E_{N.H.E.} = E_{H(Field)} + 206\,mV - 0.7(Temperature - 25℃)\ for\ T = 0\ to\ 60℃$$

Cadmium is a highly mobile element, in part because of the wide range of environmental conditions where the metal is stable as a soluble cation (Cd^{2+}). Environmental conditions at the site are relatively oxidative (ORP > 100 mV) and slightly acidic (pH < 7.0) which suggests that cadmium is unlikely to naturally precipitate as either Greenockite or Otavite. Reducing or alkaline agents would be required to artificially shift site conditions towards being favorable for precipitation, however, because of the high groundwater velocity and shallow aquifer conditions it is unlikely that reducing conditions would persist. Cadmium is likely present in groundwater as the Cd^{2+} cation, as redox conditions at the four selected monitoring wells are soundly within the stability field for Cd^{2+} (**Appendix C, Figure C-1**).

Chromium has several different redox states with the two most common being trivalent (Cr III) and hexavalent (Cr VI) chromium. Site conditions measured during the June 2024 sampling event at the four selected monitoring wells suggest that all chromium should be found as a trivalent species which agrees with the historic speciation sampling which observed no detections of hexavalent chromium across the site (**Appendix C, Figure C-2**). Site conditions straddle the stability for $CrOH_{3(aq)}$ and $CrOH^{++}$ and it is important to note that $CrOH_{3(aq)}$ is relatively insoluble which is likely responsible for the high total chromium concentrations compared to dissolved chromium measurements.

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3. CONCEPTUAL SITE MODEL UPDATE

The following section provides an update to the CSM for the Site utilizing the analytical, physical, and observational data collected to date. The discussion focuses primarily on updates given the current understanding of groundwater movement and contaminant distribution at the Site, particularly in the vicinity of OU1/OU6 (on-site area) and OU3 (Willetts Creek).

3.1 ENVIRONMENTAL SETTING

3.1.1 Site Geology

The Site is located within the Atlantic Coastal Plain Physiographic Province and is consistent with the geology of Long Island as characterized by a southward-thickening wedge of unconsolidated Cretaceous and Cenozoic sediments uncomformably overlying a gently dipping Pre-Cambrian bedrock surface. The primary geology of the site consists of the Upper Glacial aquifer which is a formation of glacial outwash identified by thick deposits of unconsolidated water bearing sands and gravels that become finer at depth. The Upper Glacial Aquifer is approximately 250 to 260 ft thick with around 200 to 210 ft of saturated thickness of Pliocene and Pleistocene glacial deposits. Here, the shallow aquifer is considered the material extending approximately 20 ft below the water table (-10 ft amsl) which encompasses the highest cadmium concentrations observed in the in-situ borings (between 11 to 15 ft bgs or approximately 1 to 2 ft amsl). Boring logs indicate that the shallow aquifer is comprised of a well graded fine to coarse sand with some fine to coarse gravel which is consistent with previous investigations as well as the hydraulic conductivity measurements conducted during this investigation. Additionally, the shallow aquifer material was noted to be relatively uniform across all soil borings particularly behind the Captree Plaza where a potential remedial measure may be implemented.

3.1.2 Site Hydrogeology

There are three primary water bearing aquifers underlying Suffolk County. These aquifers, from shallow to deep, are the Upper Glacial, Magothy, and Lloyd. The aquifers are considered to be hydraulically connected, with the Glacial and Magothy contributing recharge for the underlying Lloyd aquifer. During the glacial retreat, the area was covered with outwash deposits that constitute most of the Upper Glacial aquifer of Long Island. Because these sand and gravel deposits contain virtually no interstitial clay and silt, the Upper Glacial aquifer is the most permeable. The direction of groundwater movement through Long Island’s aquifers is horizontal and is generally more rapid than the movement in the vertical direction. This arises because of an anisotropic effect stemming from the general horizontal orientation of the largest dimensions of particles in the interbedded fine- and coarse-grained layers.

Groundwater in the Upper Glacial aquifer flows away from two major highs on the main water table divide on Long Island. The general directions of groundwater flow of the island are north toward the Long Island Sound, and south towards the Great South Bay. Based on site-specific groundwater data, local groundwater flow at the site moves south to southwest towards the Great South Bay. Previous interpretation of groundwater elevation measurements suggested that localized groundwater flow at the site was directed to Willetts Creek south/southeast of OU1, however, with the widespread detection of site COCs and an updated groundwater elevation map the predominant movement of groundwater is south-southwest towards Great South Bay.

Willetts Creek is a north-south flowing, slow-moving creek, approximately 15 to 20 ft wide and less than 6 inches in depth in most parts (but upwards of 2 ft deep in slower velocity areas). The creek flows in a southerly direction approximately 4,500 ft to Lake Capri, a privately owned, 8-acre man-made lake. The creek is fed by both upstream surface water runoff and groundwater base flow.

3.1.2.1 Hydraulic Gradient

Hydraulic gradients were calculated across the site using the groundwater elevations in the monitoring wells (June 2024) and ISB locations (May 2024) and were evaluated in both the upgradient portion (Between ISB-A5 and ISB-C2 = 0.00513 ft/ft) and downgradient portions (Between ISB-C2 and ISB-C1 = 0.00511 ft/ft) of the Site. The hydraulic gradient used for mass flux and other evaluations was determined to be 0.005 ft/ft which is on a similar order of magnitude as the previous hydraulic gradient used (0.0085 ft/ft calculated using the June 2023 groundwater elevations between MW-13A and Willetts Creek) to update mass flux calculations (EA 2023e).

3.1.2.2 Hydraulic Conductivity

Hydraulic conductivities were updated following slug tests performed during the PDI where calculated values, using the falling head test, ranged from 274.21 ft/day (MW-22A) to 421.37 ft/day (MW-13A) (**Table 2**). The hydraulic conductivity used for mass flux calculations was 400 ft/day which was approximated as a conservative measure (higher conductivity) using the average of both falling and rising head tests and to capture the high permeability of the soils. The updated hydraulic conductivity is much greater than the previously used value (120 ft/day) and is also greater than the historically reported hydraulic conductivity for the Upper Glacial aquifer (270 ft/day) (LMS 1994).

3.1.3 Site Geochemistry

Water quality parameters collected during the PDI continue to indicate that the aquifer on-site is relatively oxidizing (Average ORP at in-situ boring points = 4 mV, Average ORP in monitoring wells = 129 mV) and slightly acidic (Average pH in in-situ boring points = 6.35, Average pH in monitoring wells = 6.43). Environmental conditions are unfavorable for cadmium precipitation and are unlikely to remain reducing, particularly in the shallow aquifer, because of the high groundwater velocity. Chromium speciation is expected to be in the reduced oxidation state as trivalent chromium, however, the widespread nature of chromium detections in the PDI introduce concerns about speciation considering the high mobility of hexavalent chromium in groundwater. It is suggested that chromium speciation be sampled in an upcoming sampling event to confirm that no hexavalent chromium is present in the aquifer.

3.2 SOURCE AREA AND RELEASE MECHANISM

An RI/FS was initiated by NYSDEC in May 1992 to determine the nature and extent of contamination attributable to the site, as well as to develop an appropriate remedy (LMS 1994).

During RI activities, several areas with cadmium contamination were identified, including areas of OU1 where some remaining soil following the 1991 IRM removal was contaminated with cadmium, trivalent chromium, and cyanide. Pursuant to the ROD issued by NYSDEC in 1995 for OU1 (NYSDEC 1995) the following remedial activities were completed:

- In-situ stabilization/solidification (ISS) for soils containing cadmium at concentrations greater than 10 parts per million (completed December 1996). Three areas on the western portion of the facility were excavated and mixed with the soils to be treated on the eastern portion of the site. The in-place solidification/stabilization intended to render the cadmium-impacted soils above and below the water table non-hazardous by binding the soil in a cement-based matrix; thereby, preventing future leaching of contaminants. The remediation areas included the excavated and backfilled leach field, oil/water separator, and clay piping that was not removed during the IRM.

- Design and installation of a final topsoil/asphalt cover as an engineering control to protect the area from the effects of erosion. The cover that was installed in 1997 also acted to prevent infiltration

- Implementation of institutional controls in the form of Deed Restrictions.

3.2.1 OU1/OU6 Former Dzus Site Source Area

Since the RA, OU1 and OU6 have undergone redevelopment with the former Dzus building being razed and new storefronts and buildings constructed on the parcel. In April 2021, it was observed that the engineered cover system at OU1 was removed at some point during redevelopment, and a temporary impermeable cover that consisted of a geomembrane and soil cover was installed in October 2022 to prevent infiltration and potential contaminant mobilization and migration. Restoration of the engineered cover system at OU1 was implemented to restore the 1997 topsoil/asphalt cover constructed to protect the underlying ISS “treatment cells” containing cadmium at concentrations greater than 10 parts per million. Stormwater collection, conveyance, and infiltration structures were installed by the developer that are anticipated to introduce stormwater into the subsurface that will percolate through unsaturated (vadose zone) soils (EA 2024). Additionally, portions of the stormwater system were installed within the ISS treatment cells which would provide the opportunity for cadmium mobilization.

Prior to redevelopment cadmium concentrations measured during quarterly site management sampling events were low, however, following observations that the cap had been removed cadmium concentrations increased and have remained elevated compared to historic measurements. It is suspected that the likely release mechanism for cadmium was the interaction of slightly acidic stormwater infiltrating into the source area during redevelopment that was responsible for the mobilized dissolved phase cadmium plume caused by leaching from source area soils.

3.2.2 Mass Flux and Mass Discharge Evaluation

Previous estimations of cadmium mass flux determined that approximately 4.3 kg/yr (EA 2023b) and 3.2 kg/yr (EA 2023e) was discharging through a 2 ft deep and 300 ft wide plane centered on the depth of MW-13A that was anticipated to communicate with Willetts Creek (under the previous understanding that groundwater flow was directed straight to Willetts Creek through MW-13A). Groundwater elevations collected as part of the PDI indicated that groundwater flow is directed more south-southwest and three new transects oriented perpendicular to groundwater flow were used to calculate a more refined mass flux to evaluate cadmium throughout the aquifer. The hydraulic conductivity (400 ft/day) and the hydraulic gradient (0.005 ft/ft) were held constant during the mass flux evaluation as geology at the site has been observed to be relatively uniform and the hydraulic gradient was consistent across the Site. Dissolved mass discharge was approximately 7 kg/yr through each transect which suggests that the plume is stable as sampled during the PDI. Additionally, the consistent discharge through each transect suggests that there is a continuous source of cadmium that is leaching into the aquifer and is likely mobilized throughout the aquifer by the high groundwater velocity.

3.3 NATURE AND EXTENT OF CONTAMINATION

Sampling results from the PDI confirm that cadmium and chromium contamination in groundwater is more widespread than previously observed. Three main factors were evaluated when assessing the nature and extent of cadmium and chromium contamination at the Site: physiochemical characteristics of cadmium and chromium; site environmental characteristics; and biological interactions.

In the environment, cadmium tends to exist as a cation in only one oxidation state (Cd^{2+}). In groundwater and surface water, cadmium can exist as a hydrated ion or as ionic complexes with other inorganic substances. Soluble forms of cadmium can migrate in water, while insoluble forms of cadmium will settle and adsorb onto sediments. Given the geochemical conditions in groundwater at the Site, it is not anticipated that cadmium is precipitating as another mineral. The most likely source of cadmium migration is cadmium that is adsorbed via a weak association or in an outer sphere solid complex to mineral surfaces such as clay, or to organic materials. This helps explain why cadmium concentrations in unfiltered samples are generally higher than those of filtered samples. Chromium concentrations are widespread and do not seem to follow a discernible trend such as decreasing with depth, and it remains unclear what the source or transport mechanism is for why detections of chromium were elevated during the PDI. It is suggested that additional sampling events include chromium speciation sampling to determine whether any chromium is present as hexavalent chromium.

The groundwater flow pattern at the Site follows a south-southwest direction. Currently, the extent of estimated cadmium contamination stretches approximately 0.25 miles downgradient from the source and at its widest section, extends laterally approximately 810 ft from west to east. The area of the plume with highest concentrations (>500 µg/L) stretches approximately 550 ft downgradient from the source area in a shallow portion near the top of the aquifer which is consistent with the expected transport profile. The Darcy Velocity for groundwater at the Site was calculated to be approximately 1 ft/day which suggests that the cadmium plume will reach the furthest downgradient monitoring well (MW-18), located approximately 2,400 ft downgradient from the source area, by mid-late 2027. It is important to note that this estimate is based on the current extent of the modelled plume which has likely extended beyond the current known extent. No detections above groundwater standards have been observed in this monitoring well during site management activities, however, as groundwater flow carries the plume southward it is expected that cadmium will appear in MW-18.

It remains unclear exactly how much of the dissolved cadmium plume is communicating with Willetts Creek, however, in the 1994 RI/FS groundwater hydraulic head tests were conducted that suggested only shallow groundwater (extending to 5 ft below the streambed) would be likely to discharge to the stream (LMS 1994). While groundwater flow appears to be mostly parallel to the creek, it is anticipated that a portion of that plume is interfacing with Willetts Creek as evidenced by the detection of cadmium in surface water and sediment samples.

3.4 MIGRATION AND EXPOSURE PATHWAYS

The primary pathway for exposure to site COCs is Willetts Creek, which is the driver for an IRM intended to mitigate migration of contaminated groundwater into the surface water body. More specifically, to provide for the protection of human health and the environment it is important to reduce cadmium loads to the surface water body and prevent exposure of individuals to surface water and sediments in Willetts Creek. While it is understood that the plume is communicating with Willetts Creek to some extent, it is not expected that the rest of the aquifer poses a hazard to local residents as residents are supplied potable water by the Suffolk County Water Authority. It is understood that there is no other groundwater use in the area. An IRM for groundwater would solely be aimed at reducing cadmium loads to Willetts Creek to limit potential exposures to humans and biota.

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4. CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the PDI and the analytical, physical, and observational data collected to date, the following section presents the conclusions, evaluation of data gaps, and recommendations for additional investigation or work at the Site.

4.1 CONCLUSIONS AND DATA GAP EVALUATION

4.1.1 Cadmium and Chromium Extent Delineation

The delineation of the vertical and horizontal extent of cadmium and chromium exceedances at the Site is not complete. Cadmium and chromium were detected across the site at most locations and depths sampled which suggests that both a lateral and vertical extent of contamination are not currently delineated. The plume is relatively well bound in the north-south direction as MW-17 (north) and MW-18 (south) exhibit no detections of cadmium or chromium (total or dissolved) during historic and recent (June 2024) sampling events. While there is a substantial gap between the modelled extent of the plume and MW-18, the presence of MW-18 as a sentinel location far downgradient of the source area provides a maximal extent for the plume. Data gaps are described in detail below:

- While a two lobed plume is depicted for both total and dissolved cadmium, it is unlikely that the cadmium plume is bifurcated as depicted on **Figures 11 and 12**. The low detections at ISB-B2 introduce a split within the plume that is interpolated between ISB-B1 and ISB-B3. It is not expected that the plume is split here as the predominant groundwater flow is south-southwest and no geologic feature has been identified that might introduce a split in the plume. The lack of available data and the model interpretation here is identified as a data gap and may be addressed through the addition of new sampling locations around ISB-B2.

- While the cadmium results from the ISB-A transect provide some delineation on the northern extent of the plume, the western extent located beyond ISB-B1 and ISB-C1 remains non-delineated.

- There are no monitoring points located east of Willetts Creek; therefore, it is unclear what the extent of cadmium or chromium contamination is beyond the current monitoring points focused on the western extent of the Site. It is important to note that the dashed lines east of Willetts Creek as presented in **Figures 11 and 12** represent an inferred concentration. The modelled plume demonstrates that while there may be some contamination east of Willetts Creek it is unlikely to be widespread and high concentrations are not anticipated.

- Groundwater head measurements made during the RI/FS suggested that only shallow groundwater (extending to approximately 5 ft below the streambed of Willetts Creek) is anticipated to communicate with Willetts Creek (LMS 1994). It is unclear to what extent the groundwater plume is communicating with Willetts Creek. Elevated concentrations have been noted at depth, however since local residential properties are on a public water supply there are no immediate concerns for contamination present deeper within the aquifer.

- The chromium results at ISB-B1 appear to be anomalous as the dissolved chromium result at this location exceeded the total chromium result. Additional sampling points located west of ISB-B1 will confirm the extent of chromium contamination along the western extent of the Site.

4.1.2 Conceptual Site Model

With regard to the CSM, the primary updates relate to the site hydrogeology, geochemistry and mass flux/mass discharge that have allowed for a more refined interpretation of the nature and extent of contamination as well as the migration and exposure pathways. Conditions observed during the PDI suggest that a higher hydraulic conductivity is present at the Site than previously reported. Groundwater elevations collected as part of the PDI indicated that groundwater flow is directed more south-southwest and new mass flux transects oriented perpendicular to groundwater flow were used to calculate a more refined mass flux to evaluate cadmium throughout the aquifer.

It is important to note that:

- Hydraulic conductivity was calculated using slug test results. This data is reliable and defensible, but different from previously used conductivity values for previous RIs and mass flux calculations. While not necessarily a data gap, this is a change in understanding worth note.

- Assumptions for the portion of the aquifer communicating with Willetts Creek were made based on 1994 RI/FS. At this time, this additional modeling is not anticipated to be necessary for the purpose of an IRM; however, if there is a need to refine that information, modeling for groundwater communication with creek using MODFLOW could be completed.

4.2 APPLICATION TO IRM DESIGN

The data collected as part of this PDI will be used to design a groundwater IRM for the Site. The IRM will consist of a permeable reactive barrier (PRB) which is a remedial technology that involves a water-permeable material that through several chemical processes including oxidation-reduction, adsorption, precipitation, and exchange can trap or treat contaminants (EPA 2021). The construction of a PRB includes the digging of a trench in the path of the contaminated groundwater flow. Metals including cadmium may precipitate out of groundwater and become sequestered in the PRB, effectively treating the COC at the Site.

The PDI has provided critical information that will help to inform decision making in the PRB design process, such as where to install, and what dimensions to use for the PRB to effectively capture the contaminated groundwater and maximize protection of Willetts Creek. In the design stage, consideration will be given to the efforts it will take to monitor the pre- and post-installation concentrations of cadmium and chromium, namely if the installation of monitoring wells both upgradient and downgradient of the PRB is required as well as the location and number of those wells. Additionally, longevity, the ability of a PRB to maintain its reactivity and hydraulic performance (residence time and capture zone) in the years following its field installation, will be evaluated using, in part, the mass flux calculations that were completed as part of the PDI.

Apatite II™ is the medium to be included in the IRM design for the Site. Case studies have demonstrated an effective reduction of cadmium through the use of PRBs that utilize phosphate-induced metal stabilization involving the reactive medium Apatite II™, a biogenically precipitated apatite material that is derived from fish bones (Conca and Wright 2006). Because Apatite II™ is derived from fish-bone waste, its production does not cause environmental degradation and offers a more green and sustainable approach to remediation, unlike the mining of phosphate rock and the production of phosphate fertilizers.

4.3 RECOMMENDATIONS

The recommendations below are presented as options to further inform remedial measures and the remedial design prior to implementation of a groundwater IRM. The recommendations will be detailed in a letter work plan for additional PDI work and an updated scope for quarterly site management groundwater, surface water, and sediment sampling.

4.3.1 Additional Cadmium and Chromium Plume Extent Delineation

Based on the results of the PDI groundwater sampling, additional delineation of the cadmium and chromium plume present at the Site is warranted. To further delineate the cadmium and chromium plume, it is suggested that additional in-situ borings be advanced south along Willetts Creek with the flow of groundwater, as well as to the west along Union Boulevard. It is important to note that the extent of contamination is not delineated to the east of Willetts Creek, however, as shown on **Figure 11**, the modelled plume extent does not extend far to the east, and as groundwater flow is to the south-southwest it would be unlikely for substantial amounts of contaminant mass to migrate eastward.

To further refine the understanding of groundwater movement in the aquifer, it is recommended that a Geoprobe® Hydraulic Profiling Tool (HPT)-Groundwater Sampler (GWS) be used to conduct additional profiling, particularly near Willetts Creek and the proposed location of the PRB IRM. As the HPT-GWS sampler is advanced, profiling sensors provide real-time hydrostratigraphic and physiochemical data. Specifically, the HPT records continuous measurements of the relative changes in the hydraulic permeability of the soil simultaneously with depth. Electric conductivity (EC) measurements are also recorded and are related to changes in the stratigraphy or groundwater quality. The HPT uses an injection and pressure transducer system to add clean water at a low flow rate during advancement of the probe. The matrix back-pressure response is monitored and provides an indication of soil permeability. The pressure response is inversely proportional to the soil permeability, with a higher back pressure indicating a low permeability and vice versa. To collect the in-situ groundwater samples, the injection process is reversed to pull the groundwater to the surface. Additionally, it is suggested that soil cores from two to three locations be collected and analyzed for grain size to supplement the current information to be used in designing the IRM and provide additional details on bulk soil density and particle sizes.

4.3.2 Cadmium and Chromium Geochemical Evaluation

To refine the understanding of what fraction of cadmium is in the dissolved phase compared to sorbed phase, EA recommends collecting groundwater samples during the remaining 2024 quarterly site management events using two filter sizes 0.45 micron (the size previously used at the Site) and 0.1 micron. The high loads of total cadmium during the PDI suggest that a large fraction of cadmium may be migrating through the aquifer on suspended particles which may be captured by a smaller size filter.

To confirm that hexavalent chromium is not a constituent of the contaminant plume, it is recommended that chromium speciation be re-evaluated to confirm that the historical trend of non-detects continues throughout the site. Historical measurements as recent as 2019 found no detections of hexavalent chromium at the Site (AECOM 2019).

4.3.3 Installation of Monitoring Wells

While on-site to complete further plume delineation, it is recommended that three additional permanent monitoring wells be installed at the following locations:

1. ISB-B5: Intended to monitor the location with the greatest cadmium concentrations and greatest expected influence to Willetts Creek.

2. Between ISB-A9 and ISB-C3: Intended to capture a more upgradient monitoring point above ISB-B5 and near to the highest measured total cadmium concentration during the May/June PDI effort.

3. Behind Captree Plaza in the vicinity of ISB-B7: Intended to capture the elevated concentrations noted behind the plaza and immediately upgradient of Willetts Creek.

These wells will be used to more accurately monitor the movement of cadmium and chromium within the aquifer at the Site and determine potential contributions to Willetts Creek.

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Tables

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Table 1. In-Situ Boring Sample Summary

Sample ID	Depth Range (ft bgs)	QA/QC Sample	Sample Date
ISB-A1	11-15	--	5/17/2024
	21-25	--	5/17/2024
	31-35	--	5/17/2024
	41-45	--	5/17/2024
ISB-A2	11-15	--	5/17/2024
	21-25	--	5/17/2024
	31-35	--	5/17/2024
	41-45	--	5/17/2024
ISB-A3	11-15	--	5/17/2024
	21-25	--	5/17/2024
	31-35	--	5/17/2024
	41-45	--	5/17/2024
ISB-A4	11-15	--	5/15/2024
	21-25	--	5/15/2024
	31-35	--	5/15/2024
	41-45	--	5/15/2024
ISB-A5	11-15	--	5/15/2024
	21-25	FD-02	5/15/2024
	31-35	--	5/15/2024
	41-45	--	5/15/2024
ISB-A6	11-15	--	5/21/2024
	21-25	--	5/21/2024
	31-35	--	5/21/2024
	41-45	--	5/21/2024
ISB-A7	11-15	--	5/21/2024
	21-25	--	5/21/2024
	31-35	--	5/21/2024
	41-45	--	5/21/2024
ISB-A8	11-15	--	5/22/2024
	21-25	--	5/22/2024
	31-35	--	5/22/2024
	41-45	--	5/22/2024
ISB-A9	11-15	--	5/22/2024
	21-25	--	5/22/2024
	31-35	--	5/22/2024
	41-45	--	5/22/2024
ISB-A10	11-15	--	5/23/2024
	21-25	--	5/23/2024
	31-35	--	5/23/2024
	41-45	--	5/23/2024

Notes:
bgs = below ground surface
ft = feet (foot)
ID = identification
QA/QC = quality assurance/quality control

Table 1. In-Situ Boring Sample Summary

Sample ID	Depth Range (ft bgs)	QA/QC Sample	Sample Date
ISB-B1	4-8	MS/MSD	6/5/2024
	11-15	--	5/10/2024
	21-25	--	5/10/2024
	31-35	--	5/10/2024
	41-45	--	5/10/2024
ISB-B2	4-8	--	6/5/2024
	11-15	--	5/10/2024
	21-25	--	5/10/2024
	31-35	--	5/10/2024
	41-45	--	5/10/2024
ISB-B3	3.5-7.5	--	6/5/2024
	11-15	FD-01	5/9/2024
	21-25	--	5/9/2024
	31-35	--	5/9/2024
	41-45	--	5/9/2024
ISB-B4	7-11	--	6/4/2024
	11-15	--	5/14/2024
	21-25	--	5/14/2024
	31-35	--	5/14/2024
	41-45	--	5/14/2024
ISB-B5	7-11	--	6/5/2024
	11-15	--	5/16/2024
	21-25	--	5/16/2024
	31-35	MS/MSD	5/16/2024
	41-45	--	5/16/2024
ISB-B6	11-15	--	6/4/2024
	21-25	--	6/4/2024
	31-35	--	6/4/2024
	41-45	--	6/4/2024
ISB-B7	11-15	--	6/4/2024
	21-25	--	6/4/2024
	31-35	--	6/4/2024
	41-45	--	6/4/2024
ISB-B8	11-15	--	5/24/2024
	21-25	--	5/24/2024
	31-35	FD-05	5/24/2024
	41-45	--	5/24/2024
ISB-B9	11-15	--	5/24/2024
	21-25	--	5/24/2024
	31-35	--	5/24/2024
	41-45	MS/MSD	5/24/2024

Notes:
bgs = below ground surface
ft = feet (foot)
ID = identification
QA/QC = quality assurance/quality control

Table 1. In-Situ Boring Sample Summary

Sample ID	Depth Range (ft bgs)	QA/QC Sample	Sample Date
ISB-C1	11-15	--	5/20/2024
	21-25	--	5/20/2024
	31-35	--	5/20/2024
	41-45	MS/MSD	5/20/2024
ISB-C2	11-15	--	5/20/2024
	21-25	FD-03	5/20/2024
	31-35	--	5/20/2024
	41-45	--	5/20/2024
ISB-C3	11-15	--	5/23/2024
	21-25	FD-04	5/23/2024
	31-35	--	5/23/2024
	41-45	--	5/23/2024
ISB-D1	4-8	--	6/5/2024
	11-15	--	5/8/2024
	21-25	--	5/8/2024
	31-35	--	5/8/2024
	41-45	--	5/8/2024
ISB-D2	3.5-7.5	FD-06	6/5/2024
	11-15	--	5/8/2024
	21-25	--	5/8/2024
	31-35	--	5/8/2024
	41-45	MS/MSD	5/8/2024
ISB-D3	3.5-7.5	--	6/5/2024
	11-15	--	5/7/2024
	21-25	--	5/7/2024
	31-35	--	5/7/2024
	41-45	--	5/7/2024

Notes:
bgs = below ground surface
ft = feet (foot)
ID = identification
QA/QC = quality assurance/quality control

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Table 2. Hydraulic Conductivity Results

Well	Well Screen Interval (ft btoic)	Well Diameter (in)	Screened Interval Lithology	Test Type	Test Number	Initial Water Level (ft btoic)	Observed Displacement H(0) (ft)	Bouwer-Rice (1976) Hydraulic Conductivity (cm/sec)	Bouwer-Rice (1976) Average Hydraulic Conductivity (cm/sec)	Bouwer-Rice (1976) Average Hydraulic Conductivity (ft/day)
MW-13A	5-10	2	Loose, well graded sand	Falling	1	4.216	0.713	1.35E-01	0.149	421.37
					2	4.219	0.829	1.63E-01		
				Rising	1	4.221	0.532	7.85E-01	0.448	1268.65
					2	4.215	0.469	1.10E-01		
MW-13B	34-44	2	Loose, well graded sand	Falling	1	4.094	0.564	1.47E-01	0.142	401.53
					2	4.094	0.549	1.36E-01		
				Rising	1	4.105	0.677	1.31E-01	0.116	330.09
					2	4.104	0.646	1.02E-01		
MW-15A	18-28	2	Loose, well graded sand	Falling	1	6.798	0.355	1.31E-01	0.130	368.50
					2	6.799	0.395	1.29E-01		
				Rising	1	6.798	0.355	1.64E-01	0.168	475.09
					2	6.793	0.466	1.72E-01		
MW-15B	74-84	2	Loose, well graded sand	Falling	1	6.726	1.391	1.30E-01	0.130	369.07
					2	6.705	2.262	1.30E-01		
				Rising	1	6.722	1.403	1.33E-02	0.013	37.25
					2	6.706	1.4	1.30E-02		
MW-22A	4-14	2	Loose, well graded sand	Falling	1	7.424	1.171	1.13E-01	0.113	320.31
				Rising	1	7.421	0.677	7.17E-02	0.072	
MW-22B	22-44	2	Loose, well graded sand	Falling	1	7.247	0.578	9.12E-02	0.097	274.21
					2	7.251	0.645	1.02E-01		
				Rising	1	7.255	0.603	2.62E-02	0.039	110.17
					2	7.251	0.596	5.15E-02		

Notes:
btoic = below top of inner casing
cm = Centimeter(s).
ft = Foot (feet).
in = inch(es)
sec = Second.

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-A1	ISB-A1	ISB-A1	ISB-A1	ISB-A2	ISB-A2	ISB-A2	ISB-A2
		Sample Name	**ISB-A1-GW-11-15**	**ISB-A1-GW-21-25**	**ISB-A1-GW-31-35**	**ISB-A1-GW-41-45**	**ISB-A2-GW-11-15**	**ISB-A2-GW-21-25**	**ISB-A2-GW-31-35**	**ISB-A2-GW-41-45**
		Parent Sample								
		Sample Date	**5/17/2024**	**5/17/2024**	**5/17/2024**	**5/17/2024**	**5/17/2024**	**5/17/2024**	**5/17/2024**	**5/17/2024**
Analyte	**NYSDEC AWQS[1]**	**Unit**								
			Dissolved Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	41 J	15 J	26 J	38 J	29 J	23 J	30 J	32 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	1.9 J	< 1.5 U	< 1.5 U	< 1.5 U	2.1 J	< 1.5 U	< 1.5 U	< 1.5 U
Calcium	NSL	µg/L	15000	13000	13000	20000	15000	16000	12000	13000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	11	6.7 J	11	5.3 J	5.1 J	8.6 J	7.4 J	4.9 J
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**2800**	**3800**	**8400**	**5500**	**2500**	**4000**	**11000**	**6800**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	2300	2300	2400	5800	2200	3000	2500	3300
Manganese	300	µg/L	**2700**	**1700**	**1600**	**540**	**2500**	**1900**	**1900**	**1000**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	16	12	21	16	17	15	29	21
Potassium	NSL	µg/L	2900	2700	2500	2000	2500	2100	3300	2500
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**110000**	17000	19000	**28000**	**34000**	**21000**	**27000**	**44000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	10	23	10	11	11	32	11
			Total Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	13000	5100	6900	3400	6800	6200	10000	12000
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	150	55	120	90	120	84	180	230
Beryllium	3	µg/L	1.5 J	< 0.9 U	0.90 J	< 0.9 U	< 0.9 U	0.94 J	1.3 J	1.5 J
Cadmium	5	µg/L	**5.8**	< 1.5 U	1.8 J	1.5 J	**5.6**	2.2 J	4.6	3.9 J
Calcium	NSL	µg/L	16000	14000	13000	21000	15000	17000	14000	14000
Chromium, Total	50	µg/L	**380**	**170**	**470**	**190**	**230**	**240**	**900**	**660**
Cobalt	NSL	µg/L	47	18	32	19	24	36	32	47
Copper	200	µg/L	180	84	**230**	88	120	110	**390**	**310**
Iron	300	µg/L	**61000**	**29000**	**67000**	**28000**	**36000**	**38000**	**120000**	**94000**
Lead	25	µg/L	25	8.6 J	16	9.2 J	19	17	23	**27**
Magnesium	35000	µg/L	3700	2900	3300	6300	2800	3700	3800	4900
Manganese	300	µg/L	**6400**	**2500**	**2700**	**1000**	**6700**	**4600**	**4100**	**3400**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	100	43	98	50	74	70	**190**	**150**
Potassium	NSL	µg/L	4100	3300	3300	2500	3000	2700	4600	3800
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**110000**	18000	20000	**29000**	**34000**	**22000**	**28000**	**45000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	21	9.3 J	16	8.2 J	12	12	16	18
Zinc	2000	µg/L	130	52	150	49	82	53	240	150

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-A3	ISB-A3	ISB-A3	ISB-A3	ISB-A4	ISB-A4	ISB-A4	ISB-A4
		Sample Name	ISB-A3-GW-11-15	ISB-A3-GW-21-25	ISB-A3-GW-31-35	ISB-A3-GW-41-45	ISB-A4-GW-11-15	ISB-A4-GW-21-25	ISB-A4-GW-31-35	ISB-A4-GW-41-45
		Parent Sample								
		Sample Date	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024
Analyte	**NYSDEC AWQS[1]**	**Unit**								
			Dissolved Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	13 J	26 J	54	75	27 J	21 J	28 J	30 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**14**	**9**	**9.9**	3.9 J	5	< 1.5 U	< 1.5 U	< 1.5 U
Calcium	NSL	µg/L	15000	19000	17000	17000	16000	17000	10000	11000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	12	12	27	< 2.7 U	10	15	5.4 J	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**4200**	**3700**	**13000**	**2300**	**5100**	**4200**	**2100**	**3100**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	2100	3000	3400	3900	1900	2800	1600	3200
Manganese	300	µg/L	**1800**	**2600**	**5400**	**490**	**760**	**3200**	**3100**	**750**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	17	17	44	6.3 J	21	20	19	12
Potassium	NSL	µg/L	2000 J	3100	3700	3700	2700	2000	2400	2100
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	9900	13000	**30000**	**50000**	**25000**	19000	**22000**	**31000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	16	19	27	< 8 U	20	18	20	18
			Total Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	16000	13000	18000	4300	15000	14000	19000	10000
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	9.2 J	8.4 J	11	7.5 J
Barium	1000	µg/L	140	200	490	120	100	120	410	120
Beryllium	3	µg/L	2.7 J	1.8 J	2.2 J	< 0.9 U	1.2 J	1.1 J	1.6 J	< 0.9 U
Cadmium	5	µg/L	**46**	**29**	**49**	**6.8**	**12**	2.8 J	4.3	3.1 J
Calcium	NSL	µg/L	16000	20000	19000	17000	17000	17000	11000	12000
Chromium, Total	50	µg/L	**520**	**360**	**1500**	**160**	**350**	**300**	**370**	**300**
Cobalt	NSL	µg/L	45	60	110	9.0 J	27	35	45	22
Copper	200	µg/L	170	160	**530**	54	160	180	**230**	**280**
Iron	300	µg/L	**61000**	**57000**	**180000**	**22000**	**55000**	**55000**	**70000**	**51000**
Lead	25	µg/L	**33**	**34**	**49**	8.1 J	16	19	**40**	16
Magnesium	35000	µg/L	3300	4300	5200	4400	3800	4700	4100	4800
Manganese	300	µg/L	**5200**	**8300**	**13000**	**950**	**1500**	**5200**	**17000**	**2500**
Mercury	0.7	µg/L	0.28	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	84	96	**280**	38	**120**	79	**130**	75
Potassium	NSL	µg/L	3000	4100	5100	4300	4200	3700	4500	3500
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	9900	13000	**30000**	**51000**	**25000**	18000	**22000**	**31000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	23	17	24	9.9 J	32	25	37	21
Zinc	2000	µg/L	240	170	390	36	140	160	230	120

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-A5	ISB-A5	ISB-A5	ISB-A5	ISB-A5	ISB-A6	ISB-A6	ISB-A6	ISB-A6
		Sample Name	ISB-A5-GW-11-15	ISB-A5-GW-21-25	ISB-GW-FD-02-05152024	ISB-A5-GW-31-35	ISB-A5-GW-41-45	ISB-A6-GW-11-15	ISB-A6-GW-21-25	ISB-A6-GW-31-35	ISB-A6-GW-41-45
		Parent Sample			ISB-A5-GW-21-25						
		Sample Date	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024
Analyte	**NYSDEC AWQS[1]**	**Unit**									
			Dissolved Metals (SW6010D/SW7470A)								
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	18 J	16 J	18 J	16 J	33 J	23 J	19 J	13 J	41 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	1.7 J	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	**19**	**9.6**	**9**	**12**
Calcium	NSL	µg/L	13000	12000	13000	9600	8500	20000	20000	9500	16000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	4.6 J	4.8 J	6.0 J	3.3 J	10 J	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**810**	**3900**	**3900**	**2100**	**4600**	**5600**	**6100**	**4500**	**4900**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	1600	1800	2000	1400	1900	2600	2900	1600	2600
Manganese	300	µg/L	**1000**	**1800**	**2000**	**1200**	**1700**	**360**	**400**	**670**	250
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	11	21	20	11	28	14	11	12	11
Potassium	NSL	µg/L	2600	1500 J	1600 J	1700 J	1900 J	2600	2400	1800 J	2400
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	8.7 J	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	13000	10000	11000	12000	**25000**	**23000**	13000	9900	20000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	11	16	15	9.7 J	15	< 8 U	8.7 J	< 8 U	< 8 U
			Total Metals (SW6010D/SW7470A)								
Aluminum	NSL	µg/L	52000	22000	15000	14000	32000	9600	10000	6900	5300
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	16	8.6 J	7.6 J	5.3 J	16	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	240	180	140	140	290	120	85	76	110
Beryllium	3	µg/L	**3.5 J**	1.8 J	< 0.9 U	1.1 J	2.1 J	1.0 J	0.92 J	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**7.6**	2.2 J	< 1.5 U	2.1 J	**13**	**130**	**51**	**45**	**53**
Calcium	NSL	µg/L	14000	13000	12000	11000	16000	21000	21000	10000	17000
Chromium, Total	50	µg/L	**270**	**250**	**220**	**220**	**1600**	**1100**	**560**	**380**	**430**
Cobalt	NSL	µg/L	52	27	22	23	78	15	12	13	9.7 J
Copper	200	µg/L	**210**	170	160	160	**1400**	160	140	120	130
Iron	300	µg/L	**92000**	**59000**	**44000**	**45000**	**260000**	**58000**	**56000**	**47000**	**48000**
Lead	25	µg/L	**53**	**27**	25	21	**40**	20	13	9.8 J	8.9 J
Magnesium	35000	µg/L	8200	5100	3900	3500	6400	3600	4200	2300	3400
Manganese	300	µg/L	**7800**	**6200**	**4600**	**5100**	**8500**	**1300**	**1300**	**1700**	**700**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	100	85	71	69	**400**	79	77	63	68
Potassium	NSL	µg/L	6900	4300	3700	3600	5900	3400	3400	2500	3100
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	14000	11000	12000	14000	**27000**	**23000**	14000	10000	20000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	82	36	28	26	50	13	13	10	9.6 J
Zinc	2000	µg/L	230	160	150	72	510	85	60	41	32

Notes:

Quality Standard (AWQS) Class

GA (Standard/guidance values)

µg/L = Microgram(s) per liter

J = Concentration is estimated

NSL = No screening level availabl

U = Analyte not detected

Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-A7	ISB-A7	ISB-A7	ISB-A7	ISB-A8	ISB-A8	ISB-A8	ISB-A8
		Sample Name	ISB-A7-GW-11-15	ISB-A7-GW-21-25	ISB-A7-GW-31-35	ISB-A7-GW-41-45	ISB-A8-GW-11-15	ISB-A8-GW-21-25	ISB-A8-GW-31-35	ISB-A8-GW-41-45
		Parent Sample								
		Sample Date	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/22/2024	5/22/2024	5/22/2024	5/22/2024
Analyte	**NYSDEC AWQS[1]**	**Unit**								
			Dissolved Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	14 J	27 J	19 J	21 J	58	13 J	21 J	31 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**96**	4.9	4.0 J	3.3 J	**20**	1.8 J	1.7 J	< 1.5 U
Calcium	NSL	µg/L	17000	23000	12000	14000	59000	16000	18000	21000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	89	12	4.8 J	3.2 J	12	5.5 J	4.0 J	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**4600**	**7700**	**4700**	**2800**	**6700**	**3600**	**3000**	**5700**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	2600	3700	2100	2000	11000	2400	3200	3200
Manganese	300	µg/L	**1400**	**2300**	**950**	**480**	**930**	**1000**	**770**	**780**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	17	22	15	9.4 J	21	13	11	15
Potassium	NSL	µg/L	2500	3100	2400	2400	9400	2300	2000 J	3400
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	17000	**42000**	17000	16000	**85000**	8300	11000	**21000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	13	12	< 8 U	14	< 8 U	< 8 U
			Total Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	47000	37000	9800	7200	56000	18000	12000	5800
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	16	< 5 U	< 5 U	< 5 U	11	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	360	380	130	110	490	150	190	150
Beryllium	3	µg/L	**4.5**	**3.5 J**	1.0 J	< 0.9 U	**4.7**	1.5 J	1.2 J	< 0.9 U
Cadmium	5	µg/L	**570**	**55**	**23**	**16**	**180**	4.9	3.7 J	**5.2**
Calcium	NSL	µg/L	18000	31000	14000	15000	69000	18000	19000	23000
Chromium, Total	50	µg/L	**1900**	**1600**	**470**	**330**	**670**	**420**	**290**	**420**
Cobalt	NSL	µg/L	210	89	30	28	100	29	31	21
Copper	200	µg/L	**340**	**670**	180	110	**530**	190	140	190
Iron	300	µg/L	**140000**	**210000**	**64000**	**45000**	**150000**	**79000**	**49000**	**52000**
Lead	25	µg/L	**89**	**63**	17	12	**88**	**26**	**36**	15
Magnesium	35000	µg/L	6500	9200	3400	2900	15000	5300	4400	4000
Manganese	300	µg/L	**8100**	**9000**	**2700**	**1700**	**3400**	**3400**	**4900**	**2100**
Mercury	0.7	µg/L	< 0.12 U	0.12 J	< 0.12 U	< 0.12 U	0.13 J	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**140**	**270**	89	56	**180**	100	66	76
Potassium	NSL	µg/L	4800	5800	3300	3300	13000	4300	2600	4100
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	16000	**41000**	17000	16000	**91000**	8300	10000	**21000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	64	38	13	11	60	37	19	9.2 J
Zinc	2000	µg/L	410	340	130	92	500	120	68	75

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	**ISB-A9**	**ISB-A9**	**ISB-A9**	**ISB-A9**	**ISB-A10**	**ISB-A10**	**ISB-A10**	**ISB-A10**
		Sample Name	**ISB-A9-GW-11-15**	**ISB-A9-GW-21-25**	**ISB-A9-GW-31-35**	**ISB-A9-GW-41-45**	**ISB-A10-GW-11-15**	**ISB-A10-GW-21-25**	**ISB-A10-GW-31-35**	**ISB-A10-GW-41-45**
		Parent Sample								
		Sample Date	**5/22/2024**	**5/22/2024**	**5/22/2024**	**5/22/2024**	**5/23/2024**	**5/23/2024**	**5/23/2024**	**5/23/2024**
Analyte	**NYSDEC AWQS[1]**	**Unit**								
			Dissolved Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	77	< 25 U	< 25 U	< 25 U	450	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	18 J	19 J	29 J	44 J	10 J	39 J	67	60
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	3.2 J	2.3 J	1.9 J	1.9 J	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
Calcium	NSL	µg/L	18000	21000	24000	25000	10000	22000	26000	18000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	< 2.7 U	4.6 J	3.4 J	4.1 J	< 2.7 U	3.6 J	5.1 J	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**8300**	**2900**	**1400**	**2100**	**3900**	**2700**	**370**	**960**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	2900	4300	6200	6000	1900	3500	4300	3800
Manganese	300	µg/L	**710**	**1300**	**940**	**1400**	**590**	**1200**	**2500**	**690**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	0.15 J
Nickel	100	µg/L	11	13	11	15	< 4.6 U	9.8 J	14	8.8 J
Potassium	NSL	µg/L	1700 J	1900 J	2600	3600	1500 J	2400	3900	3900
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**24000**	20000	19000	**27000**	6000	**21000**	17000	**23000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	15	11	14	< 8 U	9.0 J	9.0 J	< 8 U
			Total Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	140000	120000	16000	5900	180000	73000	27000	15000
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	15	**33**	< 5 U	< 5 U	15	**40**	< 5 U	13
Barium	1000	µg/L	320	380	250	190	410	490	**3600**	570
Beryllium	3	µg/L	**4.6**	**9.3**	< 0.9 U	< 0.9 U	**6.2**	**4.6**	2.1 J	1.8 J
Cadmium	5	µg/L	**2500**	**42**	**20**	**15**	**10**	2.6 J	**11**	< 1.5 U
Calcium	NSL	µg/L	22000	23000	26000	29000	21000	21000	25000	19000
Chromium, Total	50	µg/L	**540**	**460**	**360**	**260**	**900**	**450**	**390**	**190**
Cobalt	NSL	µg/L	40	86	32	19	34	53	93	46
Copper	200	µg/L	**270**	**270**	94	85	**320**	**240**	170	65
Iron	300	µg/L	**140000**	**240000**	**48000**	**35000**	**110000**	**210000**	**90000**	**75000**
Lead	25	µg/L	**85**	**100**	**27**	15	**80**	**94**	21	**29**
Magnesium	35000	µg/L	11000	14000	7700	6900	12000	8800	6500	5200
Manganese	300	µg/L	**2800**	**12000**	**8100**	**5700**	**3200**	**5500**	**47000**	**10000**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	**0.74**	0.54	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**230**	**190**	**150**	76	**200**	**120**	**190**	56
Potassium	NSL	µg/L	7000	8500	4400	4500	7900	6800	6900	5500
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**27000**	20000	**21000**	**28000**	6400	**22000**	20000	**24000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	200	190	28	12	81	150	30	49
Zinc	2000	µg/L	410	370	110	95	270	230	370	63

Notes:

Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	**ISB-B1**	**ISB-B1**	**ISB-B1**	**ISB-B1**	**ISB-B1**	**ISB-B2**	**ISB-B2**	**ISB-B2**	**ISB-B2**	**ISB-B2**
		Sample Name	**ISB-B1-GW-4-8**	**ISB-B1-GW-11-15**	**ISB-B1-GW-21-25**	**ISB-B1-GW-31-35**	**ISB-B1-GW-41-45**	**ISB-B2-GW-4-8**	**ISB-B2-GW-11-15**	**ISB-B2-GW-21-25**	**ISB-B2-GW-31-35**	**ISB-B2-GW-41-45**
		Parent Sample										
		Sample Date	**6/5/2024**	**5/10/2024**	**5/10/2024**	**5/10/2024**	**5/10/2024**	**6/5/2024**	**5/10/2024**	**5/10/2024**	**5/10/2024**	**5/10/2024**
Analyte	**NYSDEC AWQS[1]**	**Unit**										
			Dissolved Metals (SW6010D/SW7470A)									
Aluminum	NSL	µg/L	120000	< 25 U	< 25 U	< 25 U	< 25 U	45 J	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	**15 J**	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	25	5.6 J	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	290	23 J	27 J	37 J	51	17 J	32 J	28 J	45 J	51
Beryllium	3	µg/L	**5.7**	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	2.0 J	**38**	**23**	**8.5**	**5.1**	< 1.5 U	2.7 J	< 1.5 U	1.5 J	< 1.5 U
Calcium	NSL	µg/L	22000	17000	14000	15000	24000	12000	26000	18000	16000	18000
Chromium, Total	50	µg/L	**510**	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	53	7.9 J	13	5.7 J	< 2.7 U	< 2.7 U	9.4 J	8.7 J	8.6 J	< 2.7 U
Copper	200	µg/L	140	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**120000**	**7000**	**6300**	**3200**	**2000**	**1700**	**4000**	**7000**	**3900**	**2300**
Lead	25	µg/L	**49**	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	6.1 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	9300	1700	2200	3200	4900	1900	3800	2900	3200	3500
Manganese	300	µg/L	**4000**	**490**	**1100**	**790**	**570**	210	**2100**	**4000**	**5900**	**660**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**280**	29	30	17	10	< 4.6 U	21	34	35	12
Potassium	NSL	µg/L	8500	3300	2600	2400	2400	3300	2500	3100	3400	2900
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**45000**	**21000**	**26000**	**54000**	**65000**	**63000**	**62000**	**23000**	**40000**	**51000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	140	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	1700	29	32	14	11	< 8 U	9.6 J	19	14	10
			Total Metals (SW6010D/SW7470A)									
Aluminum	NSL	µg/L	110000	14000	11000	7000	13000	200000	14000	15000	15000	2500
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	14	8.1 J	6.6 J	< 5 U	6.4 J	19	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	260	120	140	110	150	490	160	290	370	81
Beryllium	3	µg/L	**4.5**	1.5 J	1.4 J	0.93 J	1.4 J	**9.1**	1.0 J	0.99 J	1.0 J	< 0.9 U
Cadmium	5	µg/L	2.2 J	**93**	**51**	**13**	**9.4**	2.7 J	**13**	3.8 J	4.8	1.5 J
Calcium	NSL	µg/L	21000	18000	15000	15000	24000	16000	26000	18000	16000	17000
Chromium, Total	50	µg/L	**330**	**580**	**440**	**180**	**290**	**350**	**590**	**1200**	**760**	**120**
Cobalt	NSL	µg/L	47	26	30	17	20	100	39	47	47	4.3 J
Copper	200	µg/L	100	**520**	**470**	**220**	**280**	**310**	**360**	**650**	**360**	59
Iron	300	µg/L	**91000**	**79000**	**66000**	**31000**	**49000**	**310000**	**74000**	**130000**	**94000**	**16000**
Lead	25	µg/L	**38**	23	21	13	19	**110**	**32**	**41**	**54**	10
Magnesium	35000	µg/L	8600	3400	3600	4100	7000	31000	4800	4100	4300	3800
Manganese	300	µg/L	**3600**	**1200**	**2100**	**2100**	**2500**	**3600**	**3800**	**9000**	**16000**	**1000**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	0.13 J	0.22	0.21	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**190**	**160**	**120**	61	76	**190**	**140**	**260**	**200**	33
Potassium	NSL	µg/L	7400	4900	3900	3400	4600	18000	4200	5300	5300	3800
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**44000**	20000	**25000**	**49000**	**60000**	**56000**	**64000**	**26000**	**43000**	**55000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	110	33	22	15	26	260	23	21	24	8.1 J
Zinc	2000	µg/L	1600	360	340	190	130	1000	260	610	460	110

Notes:

Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B4	ISB-B4	ISB-B4	ISB-B4	ISB-B4
		Sample Name	ISB-B3-GW-3.5-7.5	ISB-B3-GW-11-15	ISB-GW-FD-01-05092024	ISB-B3-GW-21-25	ISB-B3-GW-31-35	ISB-B3-GW-41-45	ISB-B4-GW-7-11	ISB-B4-GW-11-15	ISB-B4-GW-21-25	ISB-B4-GW-31-35	ISB-B4-GW-41-45
		Parent Sample			ISB-B3-GW-11-15								
		Sample Date	6/5/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	6/4/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
Analyte	NYSDEC AWQS[1]	Unit											
			Dissolved Metals (SW6010D/SW7470A)										
Aluminum	NSL	µg/L	250	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	230	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	**15 J**	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	**19 J**	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	32 J	23 J	23 J	16 J	23 J	75	23 J	34 J	18 J	13 J	51
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	< 1.5 U	**6.1**	**6.2**	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	**13**	**39**	4.7	1.7 J
Calcium	NSL	µg/L	27000	17000	17000	9800	11000	19000	38000	32000	20000	6100	10000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	< 2.7 U	8.9 J	8.9 J	4.7 J	6.5 J	< 2.7 U	< 2.7 U	2.7 J	4.3 J	3.6 J	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**6900**	**9800**	**9800**	**8300**	**5800**	**2800**	**1400**	**11000**	**6200**	**6000**	**1200**
Lead	25	µg/L	7.1 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	7.3 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	5700	2700	2800	1700	2900	4500	6800	4800	2600	1000	2000
Manganese	300	µg/L	190	**970**	**990**	**1500**	**1200**	**360**	130	**460**	**600**	**1300**	300
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	< 4.6 U	25	23	19	16	10	< 4.6 U	28	22	22	6.2 J
Potassium	NSL	µg/L	8500	2100	2100	1800 J	2200	2800	4100	3400	2400	2000	2000 J
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**67000**	19000	20000	15000	**25000**	**42000**	**67000**	**60000**	12000	9900	18000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	14	16	16	12	< 8 U	< 8 U	9.2 J	21	16	8.4 J
			Total Metals (SW6010D/SW7470A)										
Aluminum	NSL	µg/L	700000	35000	29000	23000	16000	6200	330000	110000	25000	54000	8700
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	**120**	6.7 J	12	5.6 J	5.8 J	< 5 U	**42**	15	8.1 J	6.5 J	< 5 U
Barium	1000	µg/L	730	190	170	170	150	130	370	360	170	590	150
Beryllium	3	µg/L	**28**	2.3 J	1.6 J	1.3 J	< 0.9 U	< 0.9 U	**16**	**4.6**	1.8 J	**3.7 J**	< 0.9 U
Cadmium	5	µg/L	2.0 J	**52**	**48**	**8.7**	3.9 J	< 1.5 U	**65**	**100**	**75**	**73**	3.3 J
Calcium	NSL	µg/L	140000	20000	21000	13000	13000	21000	110000	35000	20000	13000	11000
Chromium, Total	50	µg/L	**1400**	**650**	**610**	**680**	**400**	**180**	**690**	**1300**	**630**	**3900**	**190**
Cobalt	NSL	µg/L	34	35	32	24	26	7.5 J	17	40	25	81	9.8 J
Copper	200	µg/L	**620**	**480**	**450**	**490**	**260**	110	**520**	**700**	**300**	**2100**	50
Iron	300	µg/L	**170000**	**96000**	**93000**	**91000**	**62000**	**25000**	**69000**	**190000**	**90000**	**480000**	**25000**
Lead	25	µg/L	**250**	**31**	**28**	25	18	8.5 J	**180**	**48**	**26**	**89**	9.8 J
Magnesium	35000	µg/L	26000	5700	5200	3700	4600	5300	17000	15000	6000	7600	3400
Manganese	300	µg/L	**1400**	**2300**	**2200**	**3900**	**3200**	**1300**	**700**	**1800**	**2000**	**9400**	**1900**
Mercury	0.7	µg/L	< 12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	**1.3**	0.2	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**330**	**170**	**150**	**160**	99	60	**160**	**310**	**140**	**750**	72
Potassium	NSL	µg/L	17000	5200	4800	4000	3800	3700	9600	10000	5100	9400	3200
Selenium	10	µg/L	< 8.5 U	< 8.5 U	**24 J**	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**65000**	**21000**	**23000**	15000	**25000**	**47000**	**70000**	**54000**	13000	16000	19000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	930	56	45	36	29	14	160	90	39	85	16
Zinc	2000	µg/L	410	330	300	410	240	89	250	400	250	1400	47

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-B5	ISB-B5	ISB-B5	ISB-B5	ISB-B5	ISB-B6	ISB-B6	ISB-B6	ISB-B6
		Sample Name	ISB-B5-GW-7-11	ISB-B5-GW-11-15	ISB-B5-GW-21-25	ISB-B5-GW-31-35	ISB-B5-GW-41-45	ISB-B6-GW-11-15	ISB-B6-GW-21-25	ISB-B6-GW-31-35	ISB-B6-GW-41-45
		Parent Sample									
		Sample Date	6/4/2024	5/16/2024	5/16/2024	5/16/2024	5/16/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024
Analyte	NYSDEC AWQS[1]	Unit									
			Dissolved Metals (SW6010D/SW7470A)								
Aluminum	NSL	µg/L	68	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	**20 J**	< 11 U	< 11 U	< 11 U	< 11 U	**15 J**	**15 J**	**14 J**	**16 J**
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	39 J	35 J	14 J	< 9.8 U	26 J	23 J	22 J	12 J	27 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	< 1.5 U	**770**	**49**	2.4 J	< 1.5 U	**26**	1.6 J	< 1.5 U	< 1.5 U
Calcium	NSL	µg/L	56000	28000	15000	6800	5300	25000	15000	7300	9400
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	< 2.7 U	4.2 J	4.1 J	3.1 J	< 2.7 U	19	4.2 J	< 2.7 U	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	200	**4600**	**4100**	**6000**	**1400**	**1700**	**4400**	**1400**	**540**
Lead	25	µg/L	7.7 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	6.5 J	6.3 J	5.9 J	< 4.4 U
Magnesium	35000	µg/L	9700	4100	2000	990	800	3600	2300	1300	1600
Manganese	300	µg/L	37	**410**	**830**	**1100**	280	**2100**	**1700**	**2100**	**540**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	< 4.6 U	14	14	22	6.3 J	16	17	11	< 4.6 U
Potassium	NSL	µg/L	6100	3100	1900 J	1500 J	1700 J	3400	2000	1300 J	1500 J
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**130000**	**26000**	13000	9800	**30000**	**31000**	18000	7400	16000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	9.9 J	26	16	< 8 U	9.3 J	< 8 U	< 8 U
			Total Metals (SW6010D/SW7470A)								
Aluminum	NSL	µg/L	120000	87000	45000	37000	6000	170000	21000	34000	4900
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	11	22	9.9 J	14	5.5 J	5.7 J	< 5 U	6.4 J	< 5 U
Barium	1000	µg/L	350	410	250	290	79	640	170	330	100
Beryllium	3	µg/L	< 0.9 U	**6**	**3.1 J**	2.9 J	< 0.9 U	**12**	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**60**	**1900**	**140**	**24**	1.9 J	**390**	**8.5**	3.4 J	< 1.5 U
Calcium	NSL	µg/L	140000	30000	18000	10000	5400	29000	17000	9700	10000
Chromium, Total	50	µg/L	**480**	**770**	**740**	**1000**	**130**	**2400**	**580**	**400**	**54**
Cobalt	NSL	µg/L	9.1 J	91	57	36	6.6 J	160	33	36	5.5 J
Copper	200	µg/L	**250**	**330**	190	**540**	72	**620**	160	170	24
Iron	300	µg/L	**31000**	**200000**	**99000**	**190000**	**22000**	**410000**	**89000**	**91000**	**14000**
Lead	25	µg/L	**91**	**72**	**39**	**50**	10	**140**	23	**38**	5.7 J
Magnesium	35000	µg/L	19000	13000	7600	5700	1600	24000	5600	6300	2500
Manganese	300	µg/L	**330**	**3900**	**4700**	**5700**	**1300**	**11000**	**4500**	**11000**	**2700**
Mercury	0.7	µg/L	0.37	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	84	**190**	**120**	**240**	32	**340**	**170**	**120**	20
Potassium	NSL	µg/L	10000	9400	5800	5500	2900	15000	4400	5000	2100
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**130000**	**28000**	15000	12000	**32000**	**26000**	17000	8500	14000
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	110	140	69	64	17	250	36	62	5.5 J
Zinc	2000	µg/L	400	270	190	470	60	500	140	150	25

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-B7	ISB-B7	ISB-B7	ISB-B7	ISB-B8	ISB-B8	ISB-B8	ISB-B8	ISB-B8
		Sample Name	ISB-B7-GW-11-15	ISB-B7-GW-21-25	ISB-B7-GW-31-35	ISB-B7-GW-41-45	ISB-B8-GW-11-15	ISB-B8-GW-21-25	ISB-B8-GW-31-35	ISB-GW-FD-05-05242024	ISB-B8-GW-41-45
		Parent Sample								ISB-B8-GW-31-35	
		Sample Date	6/4/2024	6/4/2024	6/4/2024	6/4/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024
Analyte	NYSDEC AWQS[1]	Unit									
			Dissolved Metals (SW6010D/SW7470A)								
Aluminum	NSL	µg/L	52	< 25 U	< 25 U	< 25 U	430	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	**19 J**	**18 J**	**17 J**	**14 J**	**12 J**	< 11 U	< 11 U	**14 J**	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	24 J	11 J	13 J	32 J	23 J	29 J	11 J	15 J	27 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**51**	2.6 J	< 1.5 U	< 1.5 U	< 1.5 U	2.8 J	1.5 J	< 1.5 U	1.5 J
Calcium	NSL	µg/L	45000	24000	18000	18000	16000	28000	22000	21000	19000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	6.9 J	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**3300**	**1800**	**1500**	**570**	**14000**	**5200**	**7100**	**12000**	**9200**
Lead	25	µg/L	6.6 J	6.4 J	7.3 J	5.4 J	6.8 J	< 4.4 U	< 4.4 U	7.2 J	< 4.4 U
Magnesium	35000	µg/L	6600	3500	2900	3300	3900	4700	4300	4200	3400
Manganese	300	µg/L	**310**	**860**	**490**	220	**370**	**480**	240	**360**	290
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	6.5 J	11	7.3 J	< 4.6 U	6.3 J	7.1 J	11	18	14
Potassium	NSL	µg/L	2300	2700	1800 J	2900	2400	2500	4200	3900	4200
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**67000**	16000	18000	**23000**	**60000**	**21000**	**22000**	**22000**	**35000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	5.4 J	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U
			Total Metals (SW6010D/SW7470A)								
Aluminum	NSL	µg/L	110000	79000	51000	35000	52000	19000	15000	16000	12000
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	23	12	15	25	13	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	240	260	310	250	460	220	180	140	200
Beryllium	3	µg/L	**4.9**	**4.6**	< 0.9 U	< 0.9 U	**5.4**	0.92 J	1.3 J	1.3 J	1.0 J
Cadmium	5	µg/L	**450**	**26**	2.8 J	1.8 J	**520**	**16**	**13**	**8.8**	**16**
Calcium	NSL	µg/L	52000	25000	19000	19000	24000	28000	25000	24000	20000
Chromium, Total	50	µg/L	**1500**	**950**	**360**	**140**	**1600**	**400**	**670**	**440**	**870**
Cobalt	NSL	µg/L	50	50	44	38	38	20	21	19	20
Copper	200	µg/L	**300**	**220**	180	81	**660**	160	**240**	160	**280**
Iron	300	µg/L	**240000**	**150000**	**140000**	**94000**	**290000**	**160000**	**170000**	**170000**	**140000**
Lead	25	µg/L	**66**	**59**	**46**	**43**	**110**	**38**	**47**	**48**	**29**
Magnesium	35000	µg/L	18000	13000	12000	8500	11000	8000	6800	7100	5300
Manganese	300	µg/L	**1700**	**6400**	**3700**	**3500**	**1900**	**1600**	**1400**	**1400**	**1200**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	0.48	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**240**	**160**	**150**	83	**250**	86	**120**	88	**130**
Potassium	NSL	µg/L	8900	8300	7300	6500	5200	4200	5500	5500	5300
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**59000**	15000	17000	**21000**	**51000**	**22000**	**23000**	**22000**	**36000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	**85**	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	150	98	98	78	130	29	17	19	17
Zinc	2000	µg/L	340	280	250	150	330	110	110	98	93

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-B9	ISB-B9	ISB-B9	ISB-B9	ISB-C1	ISB-C1	ISB-C1	ISB-C1
		Sample Name	ISB-B9-GW-11-15	ISB-B9-GW-21-25	ISB-B9-GW-31-35	ISB-B9-GW-41-45	ISB-C1-GW-11-15	ISB-C1-GW-21-25	ISB-C1-GW-31-35	ISB-C1-GW-41-45
		Parent Sample								
		Sample Date	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024
Analyte	NYSDEC AWQS[1]	Unit								
			Dissolved Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	93	89	24 J	33 J	56	30 J	100	53
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	1.8 J	< 1.5 U	< 1.5 U	< 1.5 U	**300**	**16**	**17**	**7.8**
Calcium	NSL	µg/L	24000	18000	22000	34000	38000	18000	39000	14000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	35	12	< 2.7 U	< 2.7 U	21	8.3 J	7.7 J	5.5 J
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**18000**	**8300**	**4300**	**6500**	**6700**	**7100**	**13000**	**13000**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	5100	3000	3700	5400	3700	2900	6800	2700
Manganese	300	µg/L	**1800**	**1300**	**340**	290	**1200**	**800**	**1000**	**950**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	15	15	8.0 J	15	22	21	31	38
Potassium	NSL	µg/L	2900	3300	3200	4500	6300	2500	4200	3400
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	8.9 J
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**230000**	13000	17000	19000	**120000**	**41000**	**120000**	**83000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	5.5 J	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	< 8 U	< 8 U	32	< 8 U	< 8 U	24
			Total Metals (SW6010D/SW7470A)							
Aluminum	NSL	µg/L	51000	18000	8100	13000	34000	19000	12000	21000
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	**35**	12	7.8 J	12	15	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	450	470	140	210	180	180	240	490
Beryllium	3	µg/L	**5.5**	2.6 J	1.8 J	2.3 J	**6.4**	2.0 J	1.3 J	2.8 J
Cadmium	5	µg/L	3.5 J	2.8 J	< 1.5 U	2.0 J	**690**	**48**	**26**	**81**
Calcium	NSL	µg/L	27000	20000	24000	37000	36000	19000	37000	17000
Chromium, Total	50	µg/L	**1100**	**630**	**310**	**540**	**620**	**690**	**620**	**2700**
Cobalt	NSL	µg/L	140	83	19	22	58	40	33	71
Copper	200	µg/L	**440**	**260**	120	200	**300**	**290**	**260**	**1300**
Iron	300	µg/L	**200000**	**130000**	**70000**	**110000**	**120000**	**96000**	**80000**	**260000**
Lead	25	µg/L	**68**	**48**	**28**	**35**	**53**	**29**	25	**51**
Magnesium	35000	µg/L	12000	5500	5200	7500	5600	5100	7900	5100
Manganese	300	µg/L	**3300**	**3100**	**1000**	**1000**	**2800**	**3300**	**3200**	**4600**
Mercury	0.7	µg/L	**2.4**	< 0.12 U	< 0.12 U	< 0.12 U	0.18 J	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**230**	**120**	60	98	**130**	**140**	**120**	**430**
Potassium	NSL	µg/L	7100	4900	3900	5900	7600	4500	5700	5600
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**230000**	14000	17000	19000	**110000**	**46000**	**120000**	**84000**
Thallium	0.5	µg/L	**23 J**	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	110	27	14	25	59	31	20	29
Zinc	2000	µg/L	260	120	57	82	990	110	110	740

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-C2	ISB-C2	ISB-C2	ISB-C2	ISB-C2	ISB-C3	ISB-C3	ISB-C3	ISB-C3	ISB-C3
		Sample Name	ISB-C2-GW-11-15	ISB-C2-GW-21-25	ISB-GW-FD-03-05202024	ISB-C2-GW-31-35	ISB-C2-GW-41-45	ISB-C3-GW-11-15	ISB-C3-GW-21-25	ISB-GW-FD-04-05222024	ISB-C3-GW-31-35	ISB-C3-GW-41-45
		Parent Sample			ISB-C2-GW-21-25					ISB-C3-GW-21-25		
		Sample Date	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/23/2024	5/23/2024	5/22/2024	5/23/2024	5/23/2024
Analyte	**NYSDEC AWQS[1]**	**Unit**										
			Dissolved Metals (SW6010D/SW7470A)									
Aluminum	NSL	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	43 J	29 J	28 J	22 J	40 J	62	< 9.8 U	< 9.8 U	21 J	28 J
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**27**	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	**5.3**	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U
Calcium	NSL	µg/L	28000	18000	19000	8100	11000	46000	9700	11000	23000	16000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	33	7.1 J	9.0 J	18	< 2.7 U	4.9 J	4.2 J	4.5 J	5.3 J	< 2.7 U
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**7700**	**1500**	**1900**	**6200**	**3900**	**6800**	**2900**	**3400**	**3700**	**870**
Lead	25	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	3400	2700	2800	1400	3100	6400	1300	1500	3100	2700
Manganese	300	µg/L	**1400**	**4800**	**4300**	**2600**	**570**	**720**	**950**	**1100**	**1300**	100
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	23	19	23	21	9.6 J	18	11	12	15	4.8 J
Potassium	NSL	µg/L	3600	2300	2200	2300	2300	4100	2100	2100	2900	2200
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**36000**	18000	18000	20000	**33000**	**120000**	7900	8200	16000	**23000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	< 8 U	9.7 J	9.3 J	< 8 U	< 8 U	< 8 U	< 8 U	< 8 U
			Total Metals (SW6010D/SW7470A)									
Aluminum	NSL	µg/L	17000	13000	25000	15000	3300	37000	85000	66000	19000	6300
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	7.9 J	5.3 J	< 5 U	< 5 U
Barium	1000	µg/L	210	430	410	250	97	220	410	350	140	73
Beryllium	3	µg/L	2.3 J	1.5 J	1.6 J	1.7 J	< 0.9 U	1.7 J	**5.7**	**4.5**	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	**72**	3.4 J	3.1 J	4.3	2.3 J	**28**	**10**	**9**	2.5 J	< 1.5 U
Calcium	NSL	µg/L	29000	18000	18000	9300	11000	48000	15000	15000	24000	17000
Chromium, Total	50	µg/L	**450**	**370**	**420**	**650**	**240**	**840**	**1600**	**1400**	**380**	**85**
Cobalt	NSL	µg/L	68	45	44	83	12	26	80	65	25	9.3 J
Copper	200	µg/L	190	160	160	**240**	86	200	**600**	**470**	140	31
Iron	300	µg/L	**67000**	**54000**	**71000**	**94000**	**31000**	**94000**	**280000**	**220000**	**69000**	**20000**
Lead	25	µg/L	**36**	**41**	**43**	**33**	8.0 J	**37**	**80**	**66**	25	7.7 J
Magnesium	35000	µg/L	5200	3600	5700	2900	3600	10000	12000	9700	5200	3300
Manganese	300	µg/L	**2500**	**21000**	**19000**	**6400**	**1100**	**2200**	**7800**	**6400**	**3300**	**800**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**120**	**130**	**160**	**140**	53	**130**	**300**	**250**	81	23
Potassium	NSL	µg/L	5000	3200	4900	3700	2800	7500	9900	8600	5100	2800
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	**36000**	18000	19000	**21000**	**35000**	**130000**	11000	11000	18000	**24000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	39	15	46	23	8.0 J	60	140	110	35	13
Zinc	2000	µg/L	70	99	130	130	51	150	300	250	70	21

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-D1	ISB-D1	ISB-D1	ISB-D1	ISB-D1	ISB-D2	ISB-D2	ISB-D2	ISB-D2	ISB-D2	ISB-D2
		Sample Name	ISB-D1-GW-4-8	ISB-D1-GW-11-15	ISB-D1-GW-21-25	ISB-D1-GW-31-35	ISB-D1-GW-41-45	ISB-D2-GW-3.5-7.5	ISB-GW-FD-06-06052024	ISB-D2-GW-11-15	ISB-D2-GW-21-25	ISB-D2-GW-31-35	ISB-D2-GW-41-45
		Parent Sample							ISB-D2-GW-3.5-7.5				
		Sample Date	6/5/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	6/5/2024	6/5/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024
Analyte	NYSDEC AWQS[1]	Unit											
			Dissolved Metals (SW6010D/SW7470A)										
Aluminum	NSL	µg/L	490	< 25 U	< 25 U	< 25 U	< 25 U	480	940	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	µg/L	**19 J**	< 11 U	< 11 U	< 11 U	< 11 U	**15 J**	**12 J**	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	µg/L	18 J	17 J	39 J	68	59	20 J	21 J	43 J	43 J	67	75
Beryllium	3	µg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	µg/L	< 1.5 U	5	5	2.2 J	2.8 J	< 1.5 U	< 1.5 U	**49**	**34**	**31**	**24**
Calcium	NSL	µg/L	18000	12000	15000	17000	14000	18000	17000	12000	15000	19000	16000
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	µg/L	< 2.7 U	4.0 J	6.3 J	21	5.5 J	< 2.7 U	< 2.7 U	6.5 J	13	8.7 J	12
Copper	200	µg/L	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U	< 9.5 U
Iron	300	µg/L	**4300**	**410**	82	**780**	**3600**	**3400**	**3200**	**1300**	**3500**	**7400**	**5900**
Lead	25	µg/L	7.9 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	7.0 J	5.8 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	µg/L	2600	2000	2900	3700	5300	3400	3200	1900	3700	4200	6300
Manganese	300	µg/L	240	**6600**	**7900**	**3900**	**2700**	130	120	**4900**	**3400**	**3000**	**3700**
Mercury	0.7	µg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	< 4.6 U	22	27	16	17	< 4.6 U	< 4.6 U	22	24	31	25
Potassium	NSL	µg/L	3600	1400 J	2500	2900	1900 J	3700	3800	2000	2500	3100	2100
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	10000	12000	**31000**	**45000**	**26000**	10000	10000	20000	**24000**	**43000**	**22000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	µg/L	< 8 U	< 8 U	8.1 J	15	36	< 8 U	< 8 U	< 8 U	< 8 U	11	11
			Total Metals (SW6010D/SW7470A)										
Aluminum	NSL	µg/L	230000	26000	10000	9300	8100	140000	150000	59000	8900	10000	8600
Antimony	3	µg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	µg/L	**43**	11	8.4 J	10	7.9 J	**26**	**26**	23	7.7 J	< 5 U	< 5 U
Barium	1000	µg/L	310	410	410	960	170	300	340	340	140	200	260
Beryllium	3	µg/L	**7.7**	2.6 J	< 0.9 U	1.7 J	1.0 J	**5.1**	**5.6**	2.7 J	< 0.9 U	1.1 J	< 0.9 U
Cadmium	5	µg/L	**19**	**55**	**16**	**6.5**	**6.5**	**35**	**41**	**210**	**59**	**63**	**69**
Calcium	NSL	µg/L	36000	14000	16000	17000	14000	33000	35000	13000	16000	21000	18000
Chromium, Total	50	µg/L	**430**	**1000**	**460**	**420**	**500**	**570**	**630**	**610**	**360**	**510**	**680**
Cobalt	NSL	µg/L	20	48	27	340	18	13	14	29	31	25	28
Copper	200	µg/L	140	**1000**	**380**	**290**	**400**	150	170	**500**	**310**	**410**	**530**
Iron	300	µg/L	**100000**	**150000**	**61000**	**73000**	**64000**	**63000**	**72000**	**74000**	**47000**	**60000**	**80000**
Lead	25	µg/L	**100**	**66**	16	13	14	**70**	**73**	**26**	11	15	15
Magnesium	35000	µg/L	12000	3200	3700	4300	5800	6000	6000	4300	4800	5200	7200
Manganese	300	µg/L	**750**	**35000**	**30000**	**25000**	**4500**	**460**	**510**	**11000**	**5300**	**4600**	**5100**
Mercury	0.7	µg/L	0.43	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	0.18 J	0.18 J	**1.2**	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	µg/L	**130**	**250**	**110**	100	**120**	**150**	**170**	**140**	**110**	**140**	**150**
Potassium	NSL	µg/L	7800	3200	3700	4100	3200	9300	9700	4400	3800	4900	3300
Selenium	10	µg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	µg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	µg/L	9500	12000	**32000**	**46000**	**28000**	12000	12000	19000	**24000**	**46000**	**23000**
Thallium	0.5	µg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	µg/L	120	39	25	51	21	91	99	53	18	20	14
Zinc	2000	µg/L	240	580	340	420	1100	70	70	110	67	84	71

Notes:

Quality Standard (AWQS) Class
GA (Standard/guidance values)
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 3. Groundwater Analytical Results (Metals)

		Location ID	ISB-D3	ISB-D3	ISB-D3	ISB-D3	ISB-D3
		Sample Name	ISB-D3-GW-3.5-7.5	ISB-D3-GW-11-15	ISB-D3-GW-21-25	ISB-D3-GW-31-35	ISB-D3-GW-41-45
		Parent Sample					
		Sample Date	6/5/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
Analyte	NYSDEC AWQS[1]	Unit					
			Dissolved Metals (SW6010D/SW7470A)				
Aluminum	NSL	μg/L	330	< 25 U	< 25 U	< 25 U	< 25 U
Antimony	3	μg/L	**18 J**	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	μg/L	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Barium	1000	μg/L	30 J	27 J	28 J	47 J	41 J
Beryllium	3	μg/L	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U
Cadmium	5	μg/L	< 1.5 U	**18**	2.1 J	2.7 J	2.2 J
Calcium	NSL	μg/L	28000	18000	13000	17000	12000
Chromium, Total	50	μg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
Cobalt	NSL	μg/L	< 2.7 U	8.7 J	5.0 J	10	6.5 J
Copper	200	μg/L	< 9.5 U	< 9.5 U	11	< 9.5 U	< 9.5 U
Iron	300	μg/L	**3700**	**4200**	**2800**	**5600**	**7800**
Lead	25	μg/L	8.1 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Magnesium	35000	μg/L	4100	2500	3400	3800	5100
Manganese	300	μg/L	170	**2700**	**620**	**2300**	**1200**
Mercury	0.7	μg/L	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	μg/L	< 4.6 U	45	26	46	51
Potassium	NSL	μg/L	3700	2600	2800	3400	2700
Selenium	10	μg/L	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U	< 8.5 U
Silver	50	μg/L	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	μg/L	**51000**	**38000**	**33000**	**51000**	**28000**
Thallium	0.5	μg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	μg/L	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U	< 5.4 U
Zinc	2000	μg/L	< 8 U	8.3 J	< 8 U	10	22
			Total Metals (SW6010D/SW7470A)				
Aluminum	NSL	μg/L	100000	30000	9000	16000	12000
Antimony	3	μg/L	< 11 U	< 11 U	< 11 U	< 11 U	< 11 U
Arsenic	25	μg/L	17	**29**	13	14	14
Barium	1000	μg/L	350	330	110	190	220
Beryllium	3	μg/L	**4.5**	2.4 J	< 0.9 U	1.8 J	1.5 J
Cadmium	5	μg/L	**32**	**43**	2.9 J	**6.6**	**8.8**
Calcium	NSL	μg/L	44000	20000	15000	17000	13000
Chromium, Total	50	μg/L	**700**	**570**	**300**	**550**	**830**
Cobalt	NSL	μg/L	27	40	24	35	22
Copper	200	μg/L	170	**1300**	**610**	**940**	**1700**
Iron	300	μg/L	**78000**	**90000**	**49000**	**78000**	**96000**
Lead	25	μg/L	**64**	**44**	17	24	17
Magnesium	35000	μg/L	12000	6200	4700	5600	6200
Manganese	300	μg/L	**640**	**6500**	**1800**	**4300**	**2100**
Mercury	0.7	μg/L	**3.2**	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Nickel	100	μg/L	**240**	**230**	**110**	**180**	**240**
Potassium	NSL	μg/L	8500	5600	4200	5400	4500
Selenium	10	μg/L	< 8.5 U	< 8.5 U	**14 J**	< 8.5 U	< 8.5 U
Silver	50	μg/L	7.7 J	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Sodium	20000	μg/L	**47000**	**38000**	**37000**	**52000**	**30000**
Thallium	0.5	μg/L	< 16 U	< 16 U	< 16 U	< 16 U	< 16 U
Vanadium	NSL	μg/L	90	63	27	36	23
Zinc	2000	μg/L	240	200	77	130	150

Notes:
Quality Standard (AWQS) Class
GA (Standard/guidance values)
μg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level availabl
U = Analyte not detected
Bold and shaded values exceed the

Table 4. Groundwater Cadmium & Chromium Results

Analyte	C AWQS[1]	Unit	ISB-A1	ISB-A1	ISB-A1	ISB-A1	ISB-A2	ISB-A2	ISB-A2	ISB-A2	ISB-A3	ISB-A3
Sample Name			ISB-A1-GW-11-15	ISB-A1-GW-21-25	ISB-A1-GW-31-35	ISB-A1-GW-41-45	ISB-A2-GW-11-15	ISB-A2-GW-21-25	ISB-A2-GW-31-35	ISB-A2-GW-41-45	ISB-A3-GW-11-15	ISB-A3-GW-21-25
Parent Sample												
Sample Date			5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	1.9 J	< 1.5 U	< 1.5 U	< 1.5 U	2.1 J	< 1.5 U	< 1.5 U	< 1.5 U	**14**	**9**
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	**5.8**	< 1.5 U	1.8 J	1.5 J	**5.6**	2.2 J	4.6	3.9 J	**46**	**29**
Chromium, Total	50	µg/L	**380**	**170**	**470**	**190**	**230**	**240**	**900**	**660**	**520**	**360**

Analyte	C AWQS[1]	Unit	ISB-A3	ISB-A3	ISB-A4	ISB-A4	ISB-A4	ISB-A4	ISB-A5	ISB-A5	ISB-A5	ISB-A5
Sample Name			ISB-A3-GW-31-35	ISB-A3-GW-41-45	ISB-A4-GW-11-15	ISB-A4-GW-21-25	ISB-A4-GW-31-35	ISB-A4-GW-41-45	ISB-A5-GW-11-15	ISB-A5-GW-21-25	ISB-GW-FD-02-05152024	ISB-A5-GW-31-35
Parent Sample											ISB-A5-GW-21-25	
Sample Date			5/17/2024	5/17/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	**9.9**	3.9 J	5	< 1.5 U	< 1.5 U	< 1.5 U	1.7 J	< 1.5 U	< 1.5 U	< 1.5 U
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	**49**	**6.8**	**12**	2.8 J	4.3	3.1 J	**7.6**	2.2 J	< 1.5 U	2.1 J
Chromium, Total	50	µg/L	**1500**	**160**	**350**	**300**	**370**	**300**	**270**	**250**	**220**	**220**

Analyte	C AWQS[1]	Unit	ISB-A5	ISB-A6	ISB-A6	ISB-A6	ISB-A6	ISB-A7	ISB-A7	ISB-A7	ISB-A7	ISB-A8
Sample Name			ISB-A5-GW-41-45	ISB-A6-GW-11-15	ISB-A6-GW-21-25	ISB-A6-GW-31-35	ISB-A6-GW-41-45	ISB-A7-GW-11-15	ISB-A7-GW-21-25	ISB-A7-GW-31-35	ISB-A7-GW-41-45	ISB-A8-GW-11-15
Parent Sample												
Sample Date			5/15/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/22/2024
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	**19**	**9.6**	**9**	**12**	**96**	4.9	4.0 J	3.3 J	**20**
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	**13**	**130**	**51**	**45**	**53**	**570**	**55**	**23**	**16**	**180**
Chromium, Total	50	µg/L	**1600**	**1100**	**560**	**380**	**430**	**1900**	**1600**	**470**	**330**	**670**

Notes:
(1) NYSDEC Ambient Water Quality Standard (AWQS) Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 4. Groundwater Cadmium & Chromium Results

		Location ID	ISB-A8	ISB-A8	ISB-A8	ISB-A9	ISB-A9	ISB-A9	ISB-A9	ISB-A10	ISB-A10	ISB-A10
		Sample Name	ISB-A8-GW-21-25	ISB-A8-GW-31-35	ISB-A8-GW-41-45	ISB-A9-GW-11-15	ISB-A9-GW-21-25	ISB-A9-GW-31-35	ISB-A9-GW-41-45	ISB-A10-GW-11-15	ISB-A10-GW-21-25	ISB-A10-GW-31-35
		Parent Sample										
		Sample Date	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/23/2024	5/23/2024	5/23/2024
Analyte	C AWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	1.8 J	1.7 J	< 1.5 U	3.2 J	2.3 J	1.9 J	1.9 J	< 1.5 U	< 1.5 U	< 1.5 U
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	4.9	3.7 J	**5.2**	**2500**	**42**	**20**	**15**	**10**	2.6 J	**11**
Chromium, Total	50	µg/L	**420**	**290**	**420**	**540**	**460**	**360**	**260**	**900**	**450**	**390**

		Location ID	ISB-A10	ISB-B1	ISB-B1	ISB-B1	ISB-B1	ISB-B1	ISB-B2	ISB-B2	ISB-B2	ISB-B2
		Sample Name	ISB-A10-GW-41-45	ISB-B1-GW-4-8	ISB-B1-GW-11-15	ISB-B1-GW-21-25	ISB-B1-GW-31-35	ISB-B1-GW-41-45	ISB-B2-GW-4-8	ISB-B2-GW-11-15	ISB-B2-GW-21-25	ISB-B2-GW-31-35
		Parent Sample										
		Sample Date	5/23/2024	6/5/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024	6/5/2024	5/10/2024	5/10/2024	5/10/2024
Analyte	C AWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	2.0 J	**38**	**23**	**8.5**	**5.1**	< 1.5 U	2.7 J	< 1.5 U	1.5 J
Chromium, Total	50	µg/L	< 5.3 U	**510**	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	2.2 J	**93**	**51**	**13**	**9.4**	2.7 J	**13**	3.8 J	4.8
Chromium, Total	50	µg/L	**190**	**330**	**580**	**440**	**180**	**290**	**350**	**590**	**1200**	**760**

		Location ID	ISB-B2	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B4	ISB-B4	ISB-B4
		Sample Name	ISB-B2-GW-41-45	ISB-B3-GW-3.5-7.5	ISB-B3-GW-11-15	ISB-GW-FD-01-05092024	ISB-B3-GW-21-25	ISB-B3-GW-31-35	ISB-B3-GW-41-45	ISB-B4-GW-7-11	ISB-B4-GW-11-15	ISB-B4-GW-21-25
		Parent Sample				ISB-B3-GW-11-15						
		Sample Date	5/10/2024	6/5/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	6/4/2024	5/14/2024	5/14/2024
Analyte	C AWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	< 1.5 U	**6.1**	**6.2**	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	**13**	**39**
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	1.5 J	2.0 J	**52**	**48**	**8.7**	3.9 J	< 1.5 U	**65**	**100**	**75**
Chromium, Total	50	µg/L	**120**	**1400**	**650**	**610**	**680**	**400**	**180**	**690**	**1300**	**630**

Notes:
(1) NYSDEC Ambient Water Quality Standard (AWQS) Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 4. Groundwater Cadmium & Chromium Results

		Location ID	ISB-B4	ISB-B4	ISB-B5	ISB-B5	ISB-B5	ISB-B5	ISB-B5	ISB-B6	ISB-B6	ISB-B6
		Sample Name	ISB-B4-GW-31-35	ISB-B4-GW-41-45	ISB-B5-GW-7-11	ISB-B5-GW-11-15	ISB-B5-GW-21-25	ISB-B5-GW-31-35	ISB-B5-GW-41-45	ISB-B6-GW-11-15	ISB-B6-GW-21-25	ISB-B6-GW-31-35
		Parent Sample										
		Sample Date	5/14/2024	5/14/2024	6/4/2024	5/16/2024	5/16/2024	5/16/2024	5/16/2024	6/4/2024	6/4/2024	6/4/2024
Analyte	CAWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	4.7	1.7 J	< 1.5 U	**770**	**49**	2.4 J	< 1.5 U	**26**	1.6 J	< 1.5 U
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	**73**	3.3 J	**60**	**1900**	**140**	**24**	1.9 J	**390**	**8.5**	3.4 J
Chromium, Total	50	µg/L	**3900**	**190**	**480**	**770**	**740**	**1000**	**130**	**2400**	**580**	**400**

		Location ID	ISB-B6	ISB-B7	ISB-B7	ISB-B7	ISB-B7	ISB-B8	ISB-B8	ISB-B8	ISB-B8	ISB-B8
		Sample Name	ISB-B6-GW-41-45	ISB-B7-GW-11-15	ISB-B7-GW-21-25	ISB-B7-GW-31-35	ISB-B7-GW-41-45	ISB-B8-GW-11-15	ISB-B8-GW-21-25	ISB-B8-GW-31-35	ISB-GW-FD-05-05242024	ISB-B8-GW-41-45
		Parent Sample									ISB-B8-GW-31-35	
		Sample Date	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024
Analyte	CAWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	**51**	2.6 J	< 1.5 U	< 1.5 U	< 1.5 U	2.8 J	1.5 J	< 1.5 U	1.5 J
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	6.9 J	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	**450**	**26**	2.8 J	1.8 J	**520**	**16**	**13**	**8.8**	**16**
Chromium, Total	50	µg/L	**54**	**1500**	**950**	**360**	**140**	**1600**	**400**	**670**	**440**	**870**

		Location ID	ISB-B9	ISB-B9	ISB-B9	ISB-B9	ISB-C1	ISB-C1	ISB-C1	ISB-C1	ISB-C2	ISB-C2
		Sample Name	ISB-B9-GW-11-15	ISB-B9-GW-21-25	ISB-B9-GW-31-35	ISB-B9-GW-41-45	ISB-C1-GW-11-15	ISB-C1-GW-21-25	ISB-C1-GW-31-35	ISB-C1-GW-41-45	ISB-C2-GW-11-15	ISB-C2-GW-21-25
		Parent Sample										
		Sample Date	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024
Analyte	CAWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	1.8 J	< 1.5 U	< 1.5 U	< 1.5 U	**300**	**16**	**17**	**7.8**	**27**	< 1.5 U
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	3.5 J	2.8 J	< 1.5 U	2.0 J	**690**	**48**	**26**	**81**	**72**	3.4 J
Chromium, Total	50	µg/L	**1100**	**630**	**310**	**540**	**620**	**690**	**620**	**2700**	**450**	**370**

Notes:
(1) NYSDEC Ambient Water Quality Standard (AWQS) Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 4. Groundwater Cadmium & Chromium Results

		Location ID	ISB-C2	ISB-C2	ISB-C2	ISB-C3	ISB-C3	ISB-C3	ISB-C3	ISB-C3	ISB-D1	ISB-D1
		Sample Name	ISB-GW-FD-03-05202024	ISB-C2-GW-31-35	ISB-C2-GW-41-45	ISB-C3-GW-11-15	ISB-C3-GW-21-25	ISB-GW-FD-04-05222024	ISB-C3-GW-31-35	ISB-C3-GW-41-45	ISB-D1-GW-4-8	ISB-D1-GW-11-15
		Parent Sample	ISB-C2-GW-21-25					ISB-C3-GW-21-25				
		Sample Date	5/20/2024	5/20/2024	5/20/2024	5/23/2024	5/23/2024	5/22/2024	5/23/2024	5/23/2024	6/5/2024	5/8/2024
Analyte	C AWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	< 1.5 U	< 1.5 U	< 1.5 U	**5.3**	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	5
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	3.1 J	4.3	2.3 J	**28**	**10**	**9**	2.5 J	< 1.5 U	**19**	**55**
Chromium, Total	50	µg/L	**420**	**650**	**240**	**840**	**1600**	**1400**	**380**	**85**	**430**	**1000**

		Location ID	ISB-D1	ISB-D1	ISB-D1	ISB-D2	ISB-D2	ISB-D2	ISB-D2	ISB-D2	ISB-D2	ISB-D3
		Sample Name	ISB-D1-GW-21-25	ISB-D1-GW-31-35	ISB-D1-GW-41-45	ISB-D2-GW-3.5-7.5	ISB-GW-FD-06-06052024	ISB-D2-GW-11-15	ISB-D2-GW-21-25	ISB-D2-GW-31-35	ISB-D2-GW-41-45	ISB-D3-GW-3.5-7.5
		Parent Sample					ISB-D2-GW-3.5-7.5					
		Sample Date	5/8/2024	5/8/2024	5/8/2024	6/5/2024	6/5/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	6/5/2024
Analyte	C AWQS[1]	Unit										
			Dissolved Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	5	2.2 J	2.8 J	< 1.5 U	< 1.5 U	**49**	**34**	**31**	**24**	< 1.5 U
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)									
Cadmium	5	µg/L	**16**	**6.5**	**6.5**	**35**	**41**	**210**	**59**	**63**	**69**	**32**
Chromium, Total	50	µg/L	**460**	**420**	**500**	**570**	**630**	**610**	**360**	**510**	**680**	**700**

		Location ID	ISB-D3	ISB-D3	ISB-D3	ISB-D3
		Sample Name	ISB-D3-GW-11-15	ISB-D3-GW-21-25	ISB-D3-GW-31-35	ISB-D3-GW-41-45
		Parent Sample				
		Sample Date	5/7/2024	5/7/2024	5/7/2024	5/7/2024
Analyte	C AWQS[1]	Unit				
			Dissolved Metals (SW6010D/SW7470A)			
Cadmium	5	µg/L	**18**	2.1 J	2.7 J	2.2 J
Chromium, Total	50	µg/L	< 5.3 U	< 5.3 U	< 5.3 U	< 5.3 U
			Total Metals (SW6010D/SW7470A)			
Cadmium	5	µg/L	**43**	2.9 J	**6.6**	**8.8**
Chromium, Total	50	µg/L	**570**	**300**	**550**	**830**

Notes:
(1) NYSDEC Ambient Water Quality Standard (AWQS) Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).
µg/L = Microgram(s) per liter
J = Concentration is estimated
NSL = No screening level available
U = Analyte not detected
Bold and shaded values exceed the New York Class GA AWQS.

Table 5. Groundwater Natural Attenuation Parameter Results

		Location ID	ISB-A5	ISB-A5	ISB-B5
		Sample Name	ISB-A5-GW-21-25	ISB-GW-FD-02-05152024	ISB-B5-GW-31-35
		Parent Sample		ISB-A5-GW-21-25	
		Sample Date	5/15/2024	5/15/2024	5/16/2024
Analyte	NYSDEC AWQS[1]	Unit			
Chloride (As Cl)	250000	µg/L	20000	20000	10000
Nitrogen, Nitrate (As N)	10000	µg/L	1800	1800	1100
Nitrogen, Nitrite	1000	µg/L	< 37.9 U	< 37.9 U	< 37.9 U
Sulfate (As SO4)	250000	µg/L	13000	13000	6700
Total Organic Carbon	NSL	µg/L	820 J	920 J	580 J

Notes:

(1) NYSDEC Ambient Water Quality Standard (AWQS) Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1).

µg/L = Microgram(s) per liter

J = Concentration is estimated

NSL = No screening level available

U = Analyte not detected

Bold and shaded values exceed the New York Class GA AWQS.

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Table 6. Groundwater Quality Parameters

Location ID	ISB-A1	ISB-A1	ISB-A1	ISB-A1	ISB-A2	ISB-A2	ISB-A2	ISB-A2	ISB-A3	ISB-A3
Sample Name	ISB-A1-GW-11-15	ISB-A1-GW-21-25	ISB-A1-GW-31-35	ISB-A1-GW-41-45	ISB-A2-GW-11-15	ISB-A2-GW-21-25	ISB-A2-GW-31-35	ISB-A2-GW-41-45	ISB-A3-GW-11-15	ISB-A3-GW-21-25
Sample Date	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024	5/17/2024
Temperature (^oC)	19.33	19.05	19.47	21.40	19.62	20.94	20.36	20.30	16.13	16.15
pH (S.U.)	6.56	5.99	6.19	6.61	6.39	6.23	6.45	6.59	6.58	5.66
Specific Conductivity (mS/cm)	0.638	0.210	0.228	0.328	0.200	0.239	0.286	0.374	0.184	0.329
Oxidation Reduction Potential (mV)	-42	45	14	-28	14	34	-43	-68	-11	72
Turbidity (NTU)	>1,000	>1,000	>1,000	435	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000
Dissolved Oxygen (mg/L)	0.69	1.90	3.10	1.85	7.82	2.43	0.43	1.68	1.49	2.96

Location ID	ISB-A3	ISB-A3	ISB-A4	ISB-A4	ISB-A4	ISB-A4	ISB-A5	ISB-A5	ISB-A5	ISB-A5
Sample Name	ISB-A3-GW-31-35	ISB-A3-GW-41-45	ISB-A4-GW-11-15	ISB-A4-GW-21-25	ISB-A4-GW-31-35	ISB-A4-GW-41-45	ISB-A5-GW-11-15	ISB-A5-GW-21-25	ISB-A5-GW-31-35	ISB-A5-GW-41-45
Sample Date	5/17/2024	5/17/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024	5/15/2024
Temperature (^oC)	16.15	15.41	16.36	16.32	16.46	16.48	16.92	17.94	18.25	18.25
pH (S.U.)	5.66	5.04	6.29	6.18	5.92	5.12	6.59	6.42	6.57	6.57
Specific Conductivity (mS/cm)	0.329	0.522	0.274	0.261	0.232	0.401	0.174	0.163	0.249	0.249
Oxidation Reduction Potential (mV)	72	157	16	27	49	128	52	29	2	2
Turbidity (NTU)	>1,000	963	984	129	>1,000	>1,000	>1,000	614	>1,000	>1,000
Dissolved Oxygen (mg/L)	2.96	3.23	2.72	1.43	2.89	1.68	4.51	1.31	1.89	1.89

Location ID	ISB-A6	ISB-A6	ISB-A6	ISB-A6	ISB-A7	ISB-A7	ISB-A7	ISB-A7	ISB-A8	ISB-A8
Sample Name	ISB-A6-GW-11-15	ISB-A6-GW-21-25	ISB-A6-GW-31-35	ISB-A6-GW-41-45	ISB-A7-GW-11-15	ISB-A7-GW-21-25	ISB-A7-GW-31-35	ISB-A7-GW-41-45	ISB-A8-GW-11-15	ISB-A8-GW-21-25
Sample Date	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/21/2024	5/22/2024	5/22/2024
Temperature (^oC)	19.12	18.83	18.87	19.76	17.70	17.96	18.35	18.48	18.24	18.18
pH	6.55	6.28	6.18	5.66	6.76	6.60	6.53	6.62	6.40	6.34
Specific Conductivity (mS/cm)	0.254	0.228	0.164	0.354	0.231	0.382	0.182	0.179	0.783	0.179
Oxidation Reduction Potential (mV)	-47	-1	26	109	-54	-57	-17	-8	-57	-6
Turbidity (NTU)	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000
Dissolved Oxygen (mg/L)	2.17	1.54	2.79	2.27	0.24	0.40	3.63	4.80	1.01	3.38

Notes:
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity unit
mg/L = milligrams per Liter
mV = milivolts

Table 6. Groundwater Quality Parameters

Location ID	ISB-A8	ISB-A8	ISB-A9	ISB-A9	ISB-A9	ISB-A9	ISB-A10	ISB-A10	ISB-A10	ISB-A10
Sample Name	ISB-A8-GW-31-35	ISB-A8-GW-41-45	ISB-A9-GW-11-15	ISB-A9-GW-21-25	ISB-A9-GW-31-35	ISB-A9-GW-41-45	ISB-A10-GW-11-15	ISB-A10-GW-21-25	ISB-A10-GW-31-35	ISB-A10-GW-41-45
Sample Date	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/22/2024	5/23/2024	5/23/2024	5/23/2024	5/23/2024
Temperature (^oC)	18.81	19.00	19.09	19.34	20.87	21.99	18.32	18.47	19.25	20.49
pH (S.U.)	6.21	5.82	6.24	6.31	6.54	6.84	6.43	6.13	6.22	6.46
Specific Conductivity (mS/cm)	0.204	0.318	0.264	0.253	0.268	0.329	0.132	0.266	0.241	0.270
Oxidation Reduction Potential (mV)	26	49	-29	14	-14	-34	-54	11	59	49
Turbidity (NTU)	>1,000	>1,000	>1,000	>1,000	643	>1,000	>1,000	>1,000	>1,000	>1,000
Dissolved Oxygen (mg/L)	1.67	4.00	0.3	1.26	3.08	2.64	1.67	0.78	3.31	2.74

Location ID	ISB-B1	ISB-B1	ISB-B1	ISB-B1	ISB-B1	ISB-B2	ISB-B2	ISB-B2	ISB-B2	ISB-B2
Sample Name	ISB-B1-GW-4-8	ISB-B1-GW-11-15	ISB-B1-GW-21-25	ISB-B1-GW-31-35	ISB-B1-GW-41-45	ISB-B2-GW-4-8	ISB-B2-GW-11-15	ISB-B2-GW-21-25	ISB-B2-GW-31-35	ISB-B2-GW-41-45
Sample Date	6/5/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024	6/5/2024	5/10/2024	5/10/2024	5/10/2024	5/10/2024
Temperature (^oC)	19.93	15.69	15.32	15.30	14.87	18.72	12.66	13.37	13.86	13.31
pH (S.U.)	6.44	6.77	6.66	6.45	6.27	6.85	6.79	6.60	6.23	5.32
Specific Conductivity (mS/cm)	0.441	0.249	0.264	0.396	0.512	0.401	0.494	0.281	0.370	0.474
Oxidation Reduction Potential (mV)	64	-34	5	32	61	-40	-45	-29	11	175
Turbidity (NTU)	>1,000	>1,000	>1,000	973	401	>1,000	>1,000	>1,000	>1,000	673
Dissolved Oxygen (mg/L)	3.93	1.95	3.88	3.72	5.67	1.58	2.07	1.30	0.88	2.04

Location ID	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B3	ISB-B4	ISB-B4	ISB-B4	ISB-B4	ISB-B4
Sample Name	ISB-B3-GW-3.5-7.5	ISB-B3-GW-11-15	ISB-B3-GW-21-25	ISB-B3-GW-31-35	ISB-B3-GW-41-45	ISB-B4-GW-7-11	ISB-B4-GW-11-15	ISB-B4-GW-21-25	ISB-B4-GW-31-35	ISB-B4-GW-41-45
Sample Date	6/5/2024	5/9/2024	5/9/2024	5/9/2024	5/9/2024	6/4/2024	5/14/2024	5/14/2024	5/14/2024	5/14/2024
Temperature (^oC)	19.39	20.14	19.98	19.54	20.58	21.14	19.20	18.76	18.04	19.59
pH	6.46	6.26	6.15	5.77	5.13	7.07	6.60	6.34	5.72	5.03
Specific Conductivity (mS/cm)	0.589	0.253	0.192	0.253	0.433	0.569	0.540	0.238	0.154	0.340
Oxidation Reduction Potential (mV)	-2	-27	-32	51	172	-36	-61	-6	28	194
Turbidity (NTU)	>1,000	>1,000	>1,000	>1,000	556	>1,000	>1,000	>1,000	>1,000	555
Dissolved Oxygen (mg/L)	0.01	0.73	0.72	1.87	3.14	2.29	0.46	1.93	2.06	4.26

Notes:
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity unit
mg/L = milligrams per Liter
mV = milivolts

Table 6. Groundwater Quality Parameters

Location ID	ISB-B5	ISB-B5	ISB-B5	ISB-B5	ISB-B5	ISB-B6	ISB-B6	ISB-B6	ISB-B6	ISB-B7
Sample Name	ISB-B5-GW-11-15	ISB-B5-GW-21-25	ISB-B5-GW-31-35	ISB-B5-GW-41-45	ISB-B5-GW-7-11	ISB-B6-GW-11-15	ISB-B6-GW-21-25	ISB-B6-GW-31-35	ISB-B6-GW-41-45	ISB-B7-GW-11-15
Sample Date	6/4/2024	5/16/2024	5/16/2024	5/16/2024	5/16/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024	6/4/2024
Temperature (^{o}C)	15.31	15.53	15.65	15.76	22.03	18.45	19.42	19.75	20.32	19.67
pH (S.U.)	6.57	6.51	6.60	6.43	6.81	7.66	7.25	7.27	6.20	7.17
Specific Conductivity (mS/cm)	0.344	0.147	0.148	0.209	0.900	0.324	0.218	0.134	0.265	0.585
Oxidation Reduction Potential (mV)	5	18	-50	65	20	-129	-26	-40	181	-54
Turbidity (NTU)	>1,000	>1,000	834	513	>1,000	>1,000	>1,000	>1,000	424	>1,000
Dissolved Oxygen (mg/L)	3.98	1.79	0.00	5.06	7.51	8.18	8.05	8.10	7.49	0.83

Location ID	ISB-B7	ISB-B7	ISB-B7	ISB-B8	ISB-B8	ISB-B8	ISB-B8	ISB-B9	ISB-B9	ISB-B9
Sample Name	ISB-B7-GW-21-25	ISB-B7-GW-31-35	ISB-B7-GW-41-45	ISB-B8-GW-11-15	ISB-B8-GW-21-25	ISB-B8-GW-31-35	ISB-B8-GW-41-45	ISB-B9-GW-11-15	ISB-B9-GW-21-25	ISB-B9-GW-31-35
Sample Date	6/4/2024	6/4/2024	6/4/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024	5/24/2024
Temperature (^{o}C)	19.52	19.91	20.13	20.45	20.71	20.96	21.40	16.64	17.13	17.9
pH (S.U.)	7.27	7.12	6.88	6.55	6.37	6.42	6.36	6.36	5.97	6.04
Specific Conductivity (mS/cm)	0.244	0.222	0.254	0.407	0.272	0.277	0.357	1.31	0.210	0.233
Oxidation Reduction Potential (mV)	-45	11	78	-84	-24	-52	-28	-75	-13	-4
Turbidity (NTU)	>1,000	>1,000	>1,000	>1,000	>1,000	976	>1,000	>1,000	>1,000	>1,000
Dissolved Oxygen (mg/L)	1.19	2.58	3.22	0.30	0.66	0.44	0.86	0.22	0.51	1.23

Location ID	ISB-B9	ISB-C1	ISB-C1	ISB-C1	ISB-C1	ISB-C2	ISB-C2	ISB-C2	ISB-C2	ISB-C3
Sample Name	ISB-B9-GW-41-45	ISB-C1-GW-11-15	ISB-C1-GW-21-25	ISB-C1-GW-31-35	ISB-C1-GW-41-45	ISB-C2-GW-11-15	ISB-C2-GW-21-25	ISB-C2-GW-31-35	ISB-C2-GW-41-45	ISB-C3-GW-11-15
Sample Date	5/24/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/23/2024
Temperature (^{o}C)	19.05	19.69	20.14	19.31	20.99	17.66	17.65	17.69	17.60	19.13
pH	5.97	6.69	6.81	6.54	6.63	6.54	6.49	6.47	5.56	6.38
Specific Conductivity (mS/cm)	0.351	0.815	0.414	0.886	0.579	0.404	0.257	0.218	0.384	0.897
Oxidation Reduction Potential (mV)	-25	-48	-33	-21	-82	-39	3	-46	111	-47
Turbidity (NTU)	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000	827	>1,000	>1,000	>1,000
Dissolved Oxygen (mg/L)	0.37	3.69	2.77	3.64	0.17	0.73	0.90	1.88	1.73	1.54

Notes:
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity unit
mg/L = milligrams per Liter
mV = milivolts

Table 6. Groundwater Quality Parameters

Location ID	ISB-C3	ISB-C3	ISB-C3	ISB-D1	ISB-D1	ISB-D1	ISB-D1	ISB-D1	ISB-D2	ISB-D2
Sample Name	ISB-C3-GW-21-25	ISB-C3-GW-31-35	ISB-C3-GW-41-45	ISB-D1-GW-4-8	ISB-D1-GW-11-15	ISB-D1-GW-21-25	ISB-D1-GW-31-35	ISB-D1-GW-41-45	ISB-D2-GW-3.5-7.5	ISB-D2-GW-11-15
Sample Date	5/23/2024	5/23/2024	5/23/2024	6/5/2024	5/8/2024	5/8/2024	5/8/2024	5/8/2024	6/5/2024	5/8/2024
Temperature (^{o}C)	17.58	18.02	18.39	19.30	17.25	17.26	17.14	17.50	19.69	16.34
pH (S.U.)	6.29	5.92	5.32	6.67	6.68	6.35	6.17	6.36	6.50	6.70
Specific Conductivity (mS/cm)	0.140	0.256	0.313	0.185	0.179	0.303	0.379	0.289	0.195	0.206
Oxidation Reduction Potential (mV)	-60	21	152	-1	-88	42	65	-3	-50	-45
Turbidity (NTU)	>1,000	>1,000	583	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000	>1,000
Dissolved Oxygen (mg/L)	0.55	2.39	4.86	0.52	1.65	2.64	10.98	8.81	0	2.62

Location ID	ISB-D2	ISB-D2	ISB-D2	ISB-D3	ISB-D3	ISB-D3	ISB-D3	ISB-D3
Sample Name	ISB-D2-GW-21-25	ISB-D2-GW-31-35	ISB-D2-GW-41-45	ISB-D3-GW-3.5-7.5	ISB-D3-GW-11-15	ISB-D3-GW-21-25	ISB-D3-GW-31-35	ISB-D3-GW-41-45
Sample Date	5/8/2024	5/8/2024	5/8/2024	6/5/2024	5/7/2024	5/7/2024	5/7/2024	5/7/2024
Temperature (^{o}C)	16.40	15.94	15.94	20.09	22.80	20.11	19.43	18.36
pH (S.U.)	6.34	5.63	5.63	6.79	6.59	6.34	6.21	6.12
Specific Conductivity (mS/cm)	0.276	0.408	0.468	0.495	0.323	0.295	0.417	0.368
Oxidation Reduction Potential (mV)	13	-97	-97	-29	-1	59	58	-5
Turbidity (NTU)	>1,000	>1,000	>1,000	>1,000	>1,000	624	>1,000	>1,000
Dissolved Oxygen (mg/L)	2.14	0.16	0.16	0.45	0.89	-	2.08	0.83

Notes:
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity unit
mg/L = milligrams per Liter
mV = milivolts

Table 7. Soil Analytical Results (Metals)

		Location ID	ISB-A5	ISB-A5	ISB-B5	ISB-B5	ISB-D3	ISB-D3	MW-13A	MW-13A	MW-9	MW-9	MW-9
		Sample Name	ISO-A5-SO-8-10	ISB-A5-SO-19-20	ISB-B5-SO-7-8	ISB-B5-SO-17-18	ISB-D3-SO-0-3.5	ISB-D3-SO-14-15	MW-13A-SO-0-5	MW-13A-SO-14-15	MW-9-SO-5-10	ISB-SO-FD-01-05062024	MW-9-SO-19-20
		Parente Sample										MW-9-SO-5-10	
		Sample Date	5/15/2024	5/15/2024	5/14/2024	5/14/2024	5/7/2024	5/7/2024	5/15/2024	5/15/2024	5/6/2024	5/15/2024	5/6/2024
Analyte	**Commercial SCO[1]**	**Unit**											
Metals (SW6010D)													
Aluminum	NSL	mg/kg	880	570	1800	560	3600	440	3600	480	5400	550	500
Antimony	NSL	mg/kg	< 0.52 U	< 0.53 U	< 0.51 U	< 0.56 U	< 0.52 U	< 0.54 U	< 0.47 U	< 0.52 U	< 0.5 U	< 0.52 U	< 0.52 U
Arsenic	16	mg/kg	< 0.55 U	< 0.56 U	< 0.53 U	< 0.59 U	1.4 J	< 0.57 U	1.8 J	< 0.55 U	1.4 J	< 0.55 U	< 0.55 U
Barium	410	mg/kg	3.1	2.4	4	2.3	10	2.4	34	1.2 J	16	1.6 J	1.6 J
Beryllium	670	mg/kg	0.082 J	0.075 J	0.089 J	0.065 J	0.10 J	< 0.062 U	0.13 J	< 0.059 U	0.15 J	< 0.059 U	< 0.06 U
Cadmium	3.7	mg/kg	0.24 J	< 0.19 U	< 0.18 U	3	2.3	0.27 J	< 0.17 U	**6.4**	2.2	< 0.19 U	< 0.19 U
Calcium	NSL	mg/kg	37	22	870	36	600	30	5100	22	1400	18 J	26
Chromium, Total	1,700	mg/kg	2.5	1.9	2.6	3.5	6.2	1.9	6.1	2.2	6.7	1.4	1.6
Cobalt	NSL	mg/kg	0.71 J	0.71 J	3.6	0.41 J	1.1 J	0.41 J	39	< 0.33 U	2.4	< 0.33 U	< 0.33 U
Copper	280	mg/kg	< 1.3 U	< 1.4 U	1.5 J	< 1.5 U	2.9	< 1.4 U	5.1	< 1.4 U	8.7	1.5 J	< 1.4 U
Iron	NSL	mg/kg	1800	1900	590	1600	3700	950	4900	1300	5700	1200	1100
Lead	1,000	mg/kg	1.5	1.7	3.2	1.2	7.2	1.5	5.9	0.71	13	0.84	0.76
Magnesium	NSL	mg/kg	130	110	97	79	350	71	1500	63	780	80	72
Manganese	10,000	mg/kg	51	66	17	20	34	13	53	13	86	39	16
Mercury	1.1	mg/kg	< 0.013 U	< 0.012 U	0.033	< 0.014 U	0.022 J	< 0.014 U	0.013 J	< 0.013 U	0.03	< 0.012 U	< 0.013 U
Nickel	320	mg/kg	0.97	1	1.3	0.96	2.2	0.80 J	3.1	< 0.54 U	4.2	< 0.54 U	0.56 J
Potassium	NSL	mg/kg	78 J	58 J	84 J	60 J	110 J	54 J	200	< 48 U	220	58 J	56 J
Selenium	1,700	mg/kg	< 0.97 U	< 0.98 U	< 0.94 U	< 1 U	< 0.97 U	< 1 U	< 0.87 U	< 0.96 U	< 0.92 U	< 0.97 U	< 0.97 U
Silver	1,700	mg/kg	< 0.24 U	< 0.24 U	< 0.23 U	< 0.26 U	< 0.24 U	< 0.25 U	0.62	< 0.24 U	< 0.23 U	< 0.24 U	< 0.24 U
Sodium	NSL	mg/kg	< 58 U	< 59 U	< 56 U	< 63 U	< 58 U	< 60 U	78 J	< 58 U	< 55 U	< 58 U	< 58 U
Thallium	NSL	mg/kg	< 0.62 U	< 0.63 U	< 0.61 U	< 0.67 U	< 0.62 U	< 0.65 U	< 0.56 U	< 0.62 U	< 0.59 U	< 0.62 U	< 0.62 U
Vanadium	NSL	mg/kg	2.7	2.5	1.6	2.5	7	1.5	10	1.8	9.9	1.6	1.7
Zinc	100,000	mg/kg	4.1	2.4	2.6	2.3	12	2.3	17	1.3	47	1.6	1.4
Percent Solids (SM2540G)													
Solids, Percent		%	84.7	80.1	86.7	78.4	85	79.2	92	80.9	87.9	81.3	81.2
TOC (SM5310B)													
Total Organic Carbon		mg/kg	140	140	16000	160	5300	140	4900	210	2000	140	230

Notes:
[1]NYSDEC Part 375, Commercial Soil
mg/kg = miligram(s) per kilogram
J = Concentration is estimated
U = Analyte not detected
TOC = Total Organic Carbon

Figures

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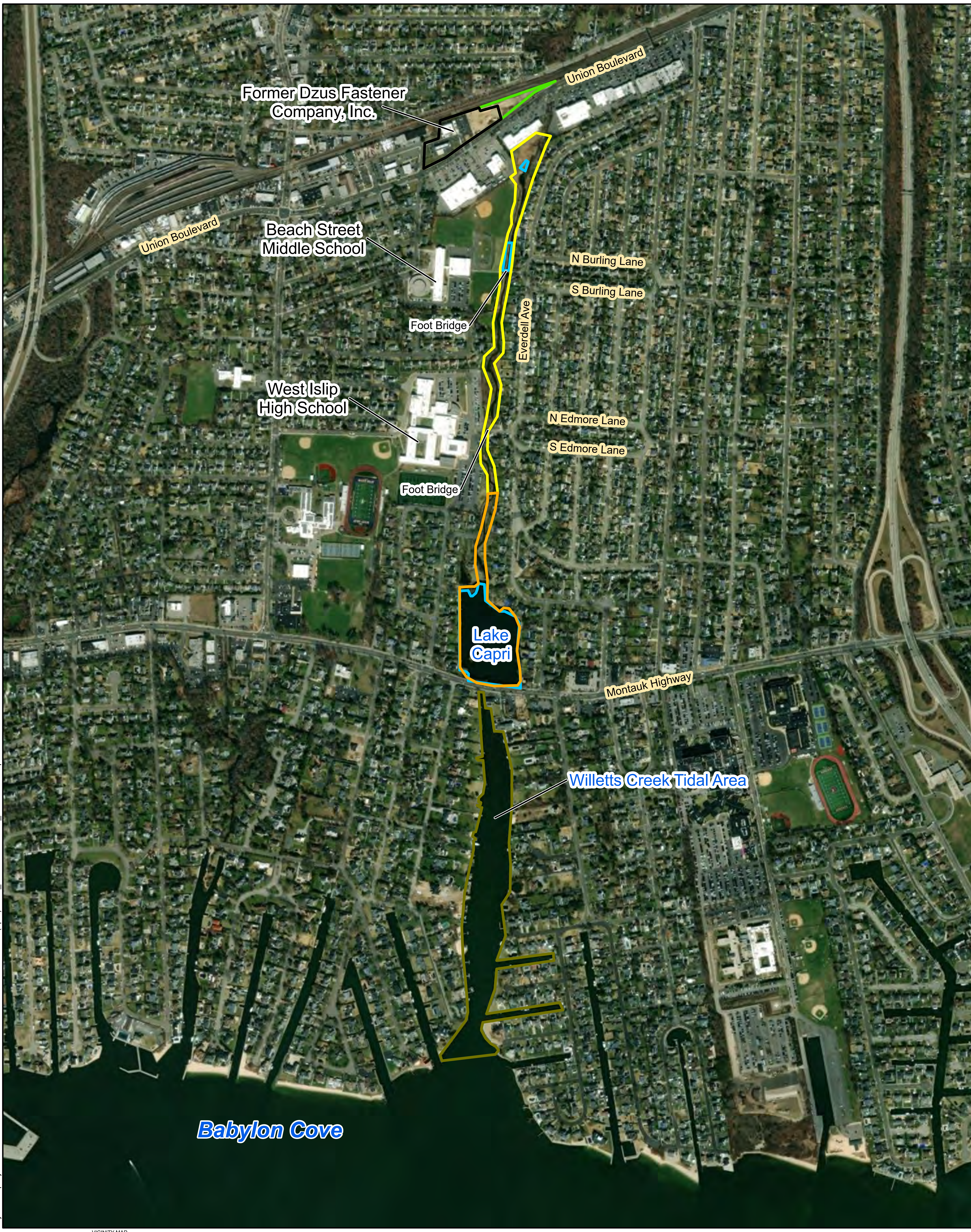

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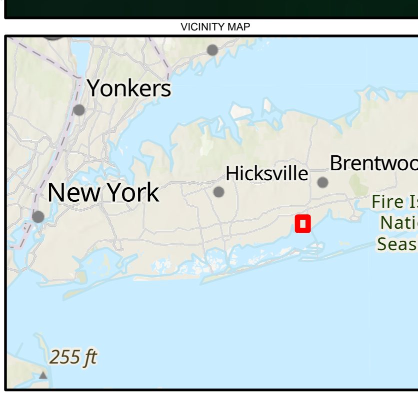
VICINITY MAP



Legend

Approximate Operable Unit Boundary

- OU1
- OU2
- OU3
- OU4
- OU5
- OU6

0 500 1,000

Feet

N

Figure 1

Operable Units/ General Site Layout

Dzus Fastener Company, Inc.

West Islip, New York

Map Date: 7/17/2024

Projection: NAD 83 State Plane

New York Long Island 3104 (US Feet)

Source: Esri

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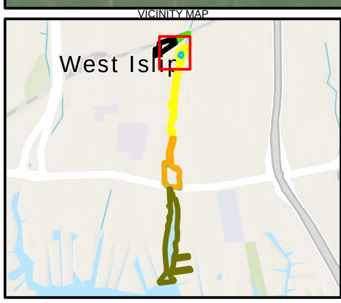
VICINITY MAP



0 150
Feet

N

Legend

A Monitoring Well

A In-Situ Boring Location

Soil Sample Location

Notes:
Groundwater PDI samples were collected from 7 May 2024 through 5 June 2024. Monitoring well samples were collected from 17 June 2024 through 18 June 2024.

Figure 2
Groundwater PDI
Sample Locations
Dzus Fastener Co., Inc.
West Islip, New York

Map Date: 8/6/2024
Projection: NAD 1983 State Plane New York
Long Island FIPS 3102 (US Feet)

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Notes:
Potentiometric surface contours are drawn in 0.5 foot intervals and displayed in units of feet above mean sea level.

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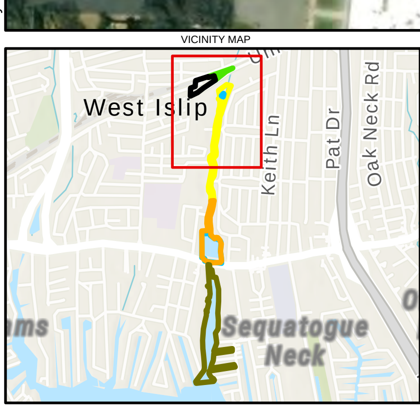

Legend

- Shallow Potentiometric Surface Contour
- Groundwater Flow Direction
- A Monitoring Well

0 150 300
Feet
N

Figure 3
Shallow Potentiometric Surface Contours
June 2024
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 8/6/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

NEW YORK STATE | Department of Environmental Conservation | EA

Notes:
Potentiometric surface contours are drawn in 0.5 foot intervals and displayed in units of feet above mean sea level.

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VICINITY MAP

Legend

- Groundwater Potinometric Contours
- Groundwater Flow Direction
- A Monitoring Well

Figure 4
Deep Potentiometric Surface Contours
June 2024
Dzus Fastener Company, Inc.
West Islip, New York

Map Date: 8/6/2024
Projection: NAD 83 State Plane
New York Long Island 3104 (US Feet)
Source: Esri

0 50 100
Feet
N

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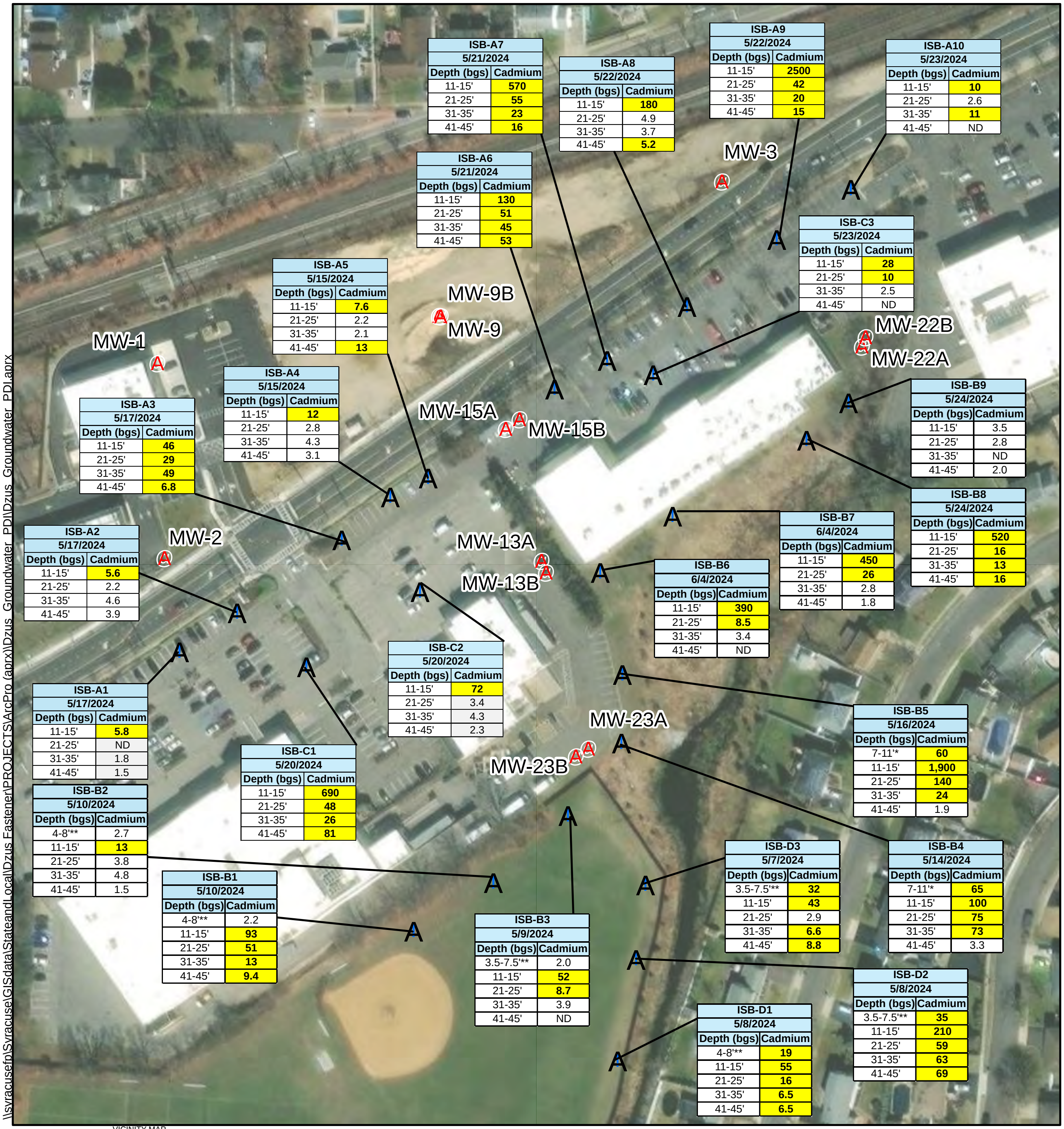

ISB-A7 5/21/2024	
Depth (bgs)	Cadmium
11-15'	**570**
21-25'	**55**
31-35'	**23**
41-45'	**16**

ISB-A8 5/22/2024	
Depth (bgs)	Cadmium
11-15'	**180**
21-25'	4.9
31-35'	3.7
41-45'	**5.2**

ISB-A9 5/22/2024	
Depth (bgs)	Cadmium
11-15'	**2500**
21-25'	**42**
31-35'	**20**
41-45'	**15**

ISB-A10 5/23/2024	
Depth (bgs)	Cadmium
11-15'	**10**
21-25'	2.6
31-35'	**11**
41-45'	ND

ISB-A6 5/21/2024	
Depth (bgs)	Cadmium
11-15'	**130**
21-25'	**51**
31-35'	**45**
41-45'	**53**

ISB-C3 5/23/2024	
Depth (bgs)	Cadmium
11-15'	**28**
21-25'	**10**
31-35'	2.5
41-45'	ND

ISB-A5 5/15/2024	
Depth (bgs)	Cadmium
11-15'	**7.6**
21-25'	2.2
31-35'	2.1
41-45'	**13**

ISB-A4 5/15/2024	
Depth (bgs)	Cadmium
11-15'	**12**
21-25'	2.8
31-35'	4.3
41-45'	3.1

ISB-A3 5/17/2024	
Depth (bgs)	Cadmium
11-15'	**46**
21-25'	**29**
31-35'	**49**
41-45'	**6.8**

ISB-B9 5/24/2024	
Depth (bgs)	Cadmium
11-15'	3.5
21-25'	2.8
31-35'	ND
41-45'	2.0

ISB-B8 5/24/2024	
Depth (bgs)	Cadmium
11-15'	**520**
21-25'	**16**
31-35'	**13**
41-45'	**16**

ISB-B7 6/4/2024	
Depth (bgs)	Cadmium
11-15'	**450**
21-25'	**26**
31-35'	2.8
41-45'	1.8

ISB-A2 5/17/2024	
Depth (bgs)	Cadmium
11-15'	**5.6**
21-25'	2.2
31-35'	4.6
41-45'	3.9

ISB-B6 6/4/2024	
Depth (bgs)	Cadmium
11-15'	**390**
21-25'	**8.5**
31-35'	3.4
41-45'	ND

ISB-C2 5/20/2024	
Depth (bgs)	Cadmium
11-15'	**72**
21-25'	3.4
31-35'	4.3
41-45'	2.3

ISB-A1 5/17/2024	
Depth (bgs)	Cadmium
11-15'	**5.8**
21-25'	ND
31-35'	1.8
41-45'	1.5

ISB-B5 5/16/2024	
Depth (bgs)	Cadmium
7-11'*	**60**
11-15'	**1,900**
21-25'	**140**
31-35'	**24**
41-45'	1.9

ISB-C1 5/20/2024	
Depth (bgs)	Cadmium
11-15'	**690**
21-25'	**48**
31-35'	**26**
41-45'	**81**

ISB-B2 5/10/2024	
Depth (bgs)	Cadmium
4-8'**	2.7
11-15'	**13**
21-25'	3.8
31-35'	4.8
41-45'	1.5

ISB-D3 5/7/2024	
Depth (bgs)	Cadmium
3.5-7.5'**	**32**
11-15'	**43**
21-25'	2.9
31-35'	**6.6**
41-45'	**8.8**

ISB-B4 5/14/2024	
Depth (bgs)	Cadmium
7-11'*	**65**
11-15'	**100**
21-25'	**75**
31-35'	**73**
41-45'	3.3

ISB-B1 5/10/2024	
Depth (bgs)	Cadmium
4-8'**	2.2
11-15'	**93**
21-25'	**51**
31-35'	**13**
41-45'	**9.4**

ISB-B3 5/9/2024	
Depth (bgs)	Cadmium
3.5-7.5'**	2.0
11-15'	**52**
21-25'	**8.7**
31-35'	3.9
41-45'	ND

ISB-D2 5/8/2024	
Depth (bgs)	Cadmium
3.5-7.5'**	**35**
11-15'	**210**
21-25'	**59**
31-35'	**63**
41-45'	**69**

ISB-D1 5/8/2024	
Depth (bgs)	Cadmium
4-8'**	**19**
11-15'	**55**
21-25'	**16**
31-35'	**6.5**
41-45'	**6.5**

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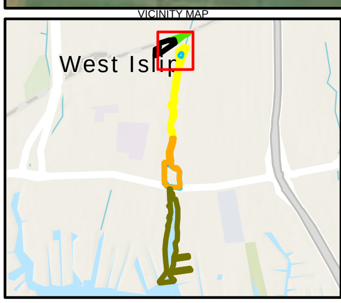
VICINITY MAP



0 200

Feet

N

Legend

In-Situ Boring Location

Monitoring Well

Figure 5
Groundwater Cadmium Results (Total)

Dzus Fastener Co., Inc.

West Islip, New York

Notes:

Groundwater analytical results are presented in units of micrograms per liter (µg/L).

Bold and highlighted values exceed the NYSDEC AWQS value of 5 µg/L for Total Cadmium.

* = Sampled on 4 June 2024

** = Sampled on 5 June 2024

Map Date: 8/6/2024

Projection: NAD 1983 State Plane New York Long Island FIPS 3102 (US Feet)

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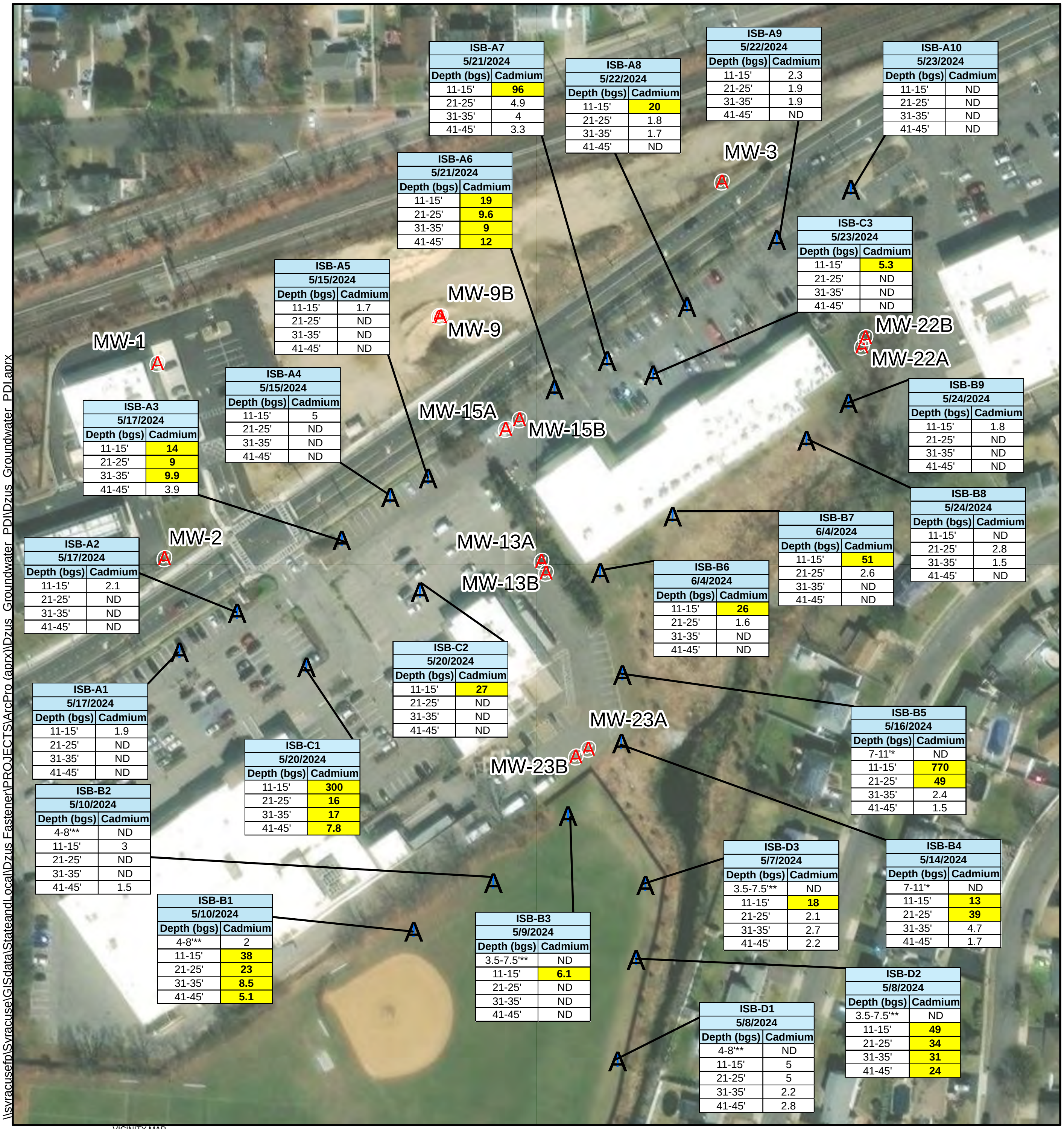

ISB-A7 5/21/2024	
Depth (bgs)	Cadmium
11-15'	**96**
21-25'	4.9
31-35'	4
41-45'	3.3

ISB-A8 5/22/2024	
Depth (bgs)	Cadmium
11-15'	**20**
21-25'	1.8
31-35'	1.7
41-45'	ND

ISB-A9 5/22/2024	
Depth (bgs)	Cadmium
11-15'	2.3
21-25'	1.9
31-35'	1.9
41-45'	ND

ISB-A10 5/23/2024	
Depth (bgs)	Cadmium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A6 5/21/2024	
Depth (bgs)	Cadmium
11-15'	**19**
21-25'	**9.6**
31-35'	**9**
41-45'	**12**

ISB-C3 5/23/2024	
Depth (bgs)	Cadmium
11-15'	**5.3**
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A5 5/15/2024	
Depth (bgs)	Cadmium
11-15'	1.7
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A4 5/15/2024	
Depth (bgs)	Cadmium
11-15'	5
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A3 5/17/2024	
Depth (bgs)	Cadmium
11-15'	**14**
21-25'	**9**
31-35'	**9.9**
41-45'	3.9

ISB-B9 5/24/2024	
Depth (bgs)	Cadmium
11-15'	1.8
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B8 5/24/2024	
Depth (bgs)	Cadmium
11-15'	ND
21-25'	2.8
31-35'	1.5
41-45'	ND

ISB-B7 6/4/2024	
Depth (bgs)	Cadmium
11-15'	**51**
21-25'	2.6
31-35'	ND
41-45'	ND

ISB-A2 5/17/2024	
Depth (bgs)	Cadmium
11-15'	2.1
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B6 6/4/2024	
Depth (bgs)	Cadmium
11-15'	**26**
21-25'	1.6
31-35'	ND
41-45'	ND

ISB-C2 5/20/2024	
Depth (bgs)	Cadmium
11-15'	**27**
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A1 5/17/2024	
Depth (bgs)	Cadmium
11-15'	1.9
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B5 5/16/2024	
Depth (bgs)	Cadmium
7-11'*	ND
11-15'	**770**
21-25'	**49**
31-35'	2.4
41-45'	1.5

ISB-C1 5/20/2024	
Depth (bgs)	Cadmium
11-15'	**300**
21-25'	**16**
31-35'	**17**
41-45'	**7.8**

ISB-B2 5/10/2024	
Depth (bgs)	Cadmium
4-8'**	ND
11-15'	3
21-25'	ND
31-35'	ND
41-45'	1.5

ISB-D3 5/7/2024	
Depth (bgs)	Cadmium
3.5-7.5'**	ND
11-15'	**18**
21-25'	2.1
31-35'	2.7
41-45'	2.2

ISB-B4 5/14/2024	
Depth (bgs)	Cadmium
7-11'*	ND
11-15'	**13**
21-25'	**39**
31-35'	4.7
41-45'	1.7

ISB-B1 5/10/2024	
Depth (bgs)	Cadmium
4-8'**	2
11-15'	**38**
21-25'	**23**
31-35'	**8.5**
41-45'	**5.1**

ISB-B3 5/9/2024	
Depth (bgs)	Cadmium
3.5-7.5'**	ND
11-15'	**6.1**
21-25'	ND
31-35'	ND
41-45'	ND

ISB-D2 5/8/2024	
Depth (bgs)	Cadmium
3.5-7.5'**	ND
11-15'	**49**
21-25'	**34**
31-35'	**31**
41-45'	**24**

ISB-D1 5/8/2024	
Depth (bgs)	Cadmium
4-8'**	ND
11-15'	5
21-25'	5
31-35'	2.2
41-45'	2.8

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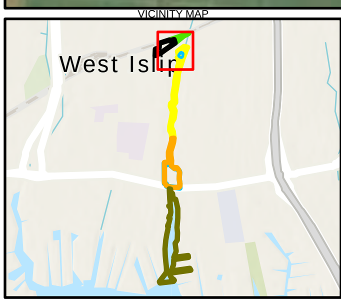
VICINITY MAP



0 200
Feet
N

Legend

A In-Situ Boring Location

A Monitoring Well

Figure 6
Groundwater Cadmium Results (Dissolved)
Dzus Fastener Co., Inc.
West Islip, New York

Notes:
Groundwater analytical results are presented in units of micrograms per liter (µg/L).
Bold and highlighted values exceed the NYSDEC AWQS value of 5 µg/L for Dissolved Cadmium.
* = Sampled on 4 June 2024
** = Sampled on 5 June 2024

Map Date: 8/6/2024
Projection: NAD 1983 State Plane New York Long Island FIPS 3102 (US Feet)

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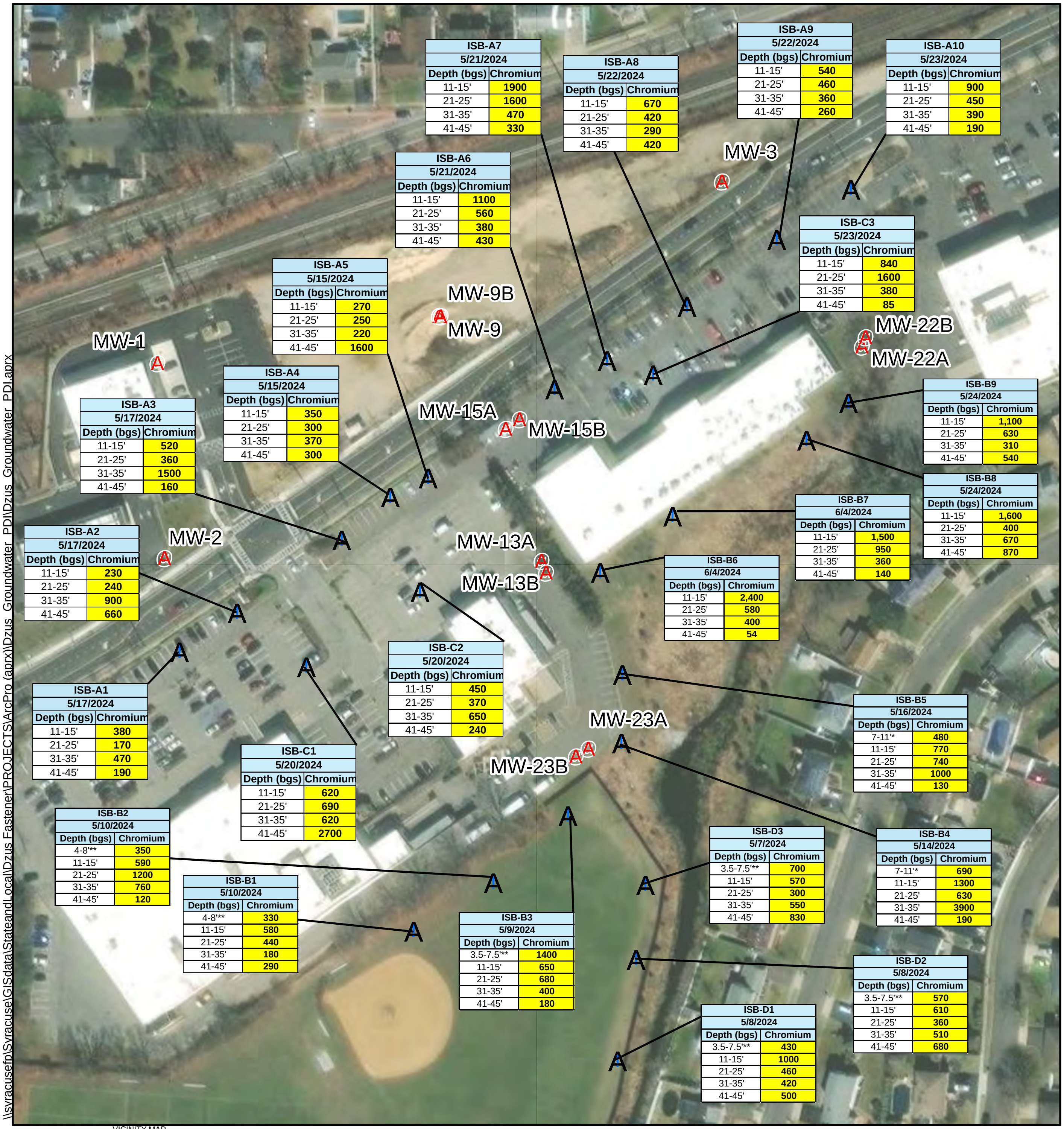

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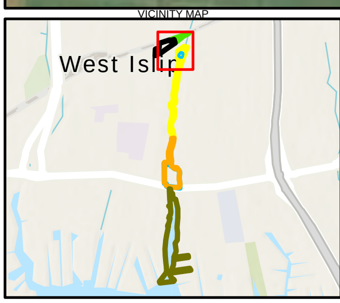
VICINITY MAP



0 200

Feet

N

Legend

A Monitoring Well

A In-Situ Boring Location

Figure 7

Groundwater Chromium Results (Total)

Dzus Fastener Co., Inc.

West Islip, New York

Notes:

Groundwater analytical results are presented in units of micrograms per liter (µg/L).

Bold and highlighted values exceed the NYSDEC AWQS value of 50 µg/L for Total Chromium.

* = Sampled on 4 June 2024

** = Sampled on 5 June 2024

Map Date: 8/6/2024

Projection: NAD 1983 State Plane New York Long Island FIPS 3102 (US Feet)

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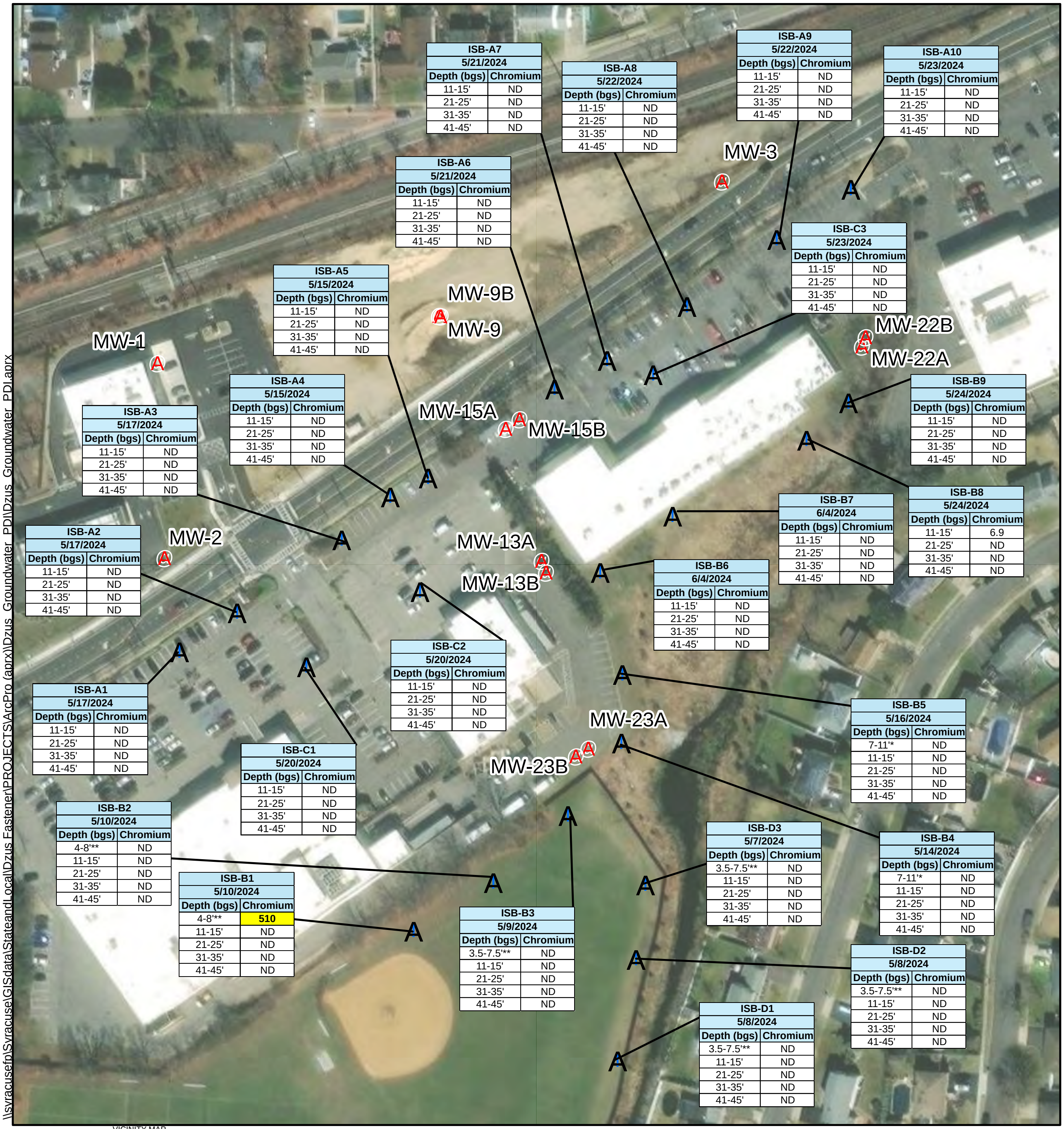


ISB-A7 5/21/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A8 5/22/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A9 5/22/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A10 5/23/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A6 5/21/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-C3 5/23/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A5 5/15/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A4 5/15/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A3 5/17/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B9 5/24/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B7 6/4/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B8 5/24/2024	
Depth (bgs)	Chromium
11-15'	6.9
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A2 5/17/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B6 6/4/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-C2 5/20/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-A1 5/17/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B5 5/16/2024	
Depth (bgs)	Chromium
7-11'*	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-C1 5/20/2024	
Depth (bgs)	Chromium
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B2 5/10/2024	
Depth (bgs)	Chromium
4-8'**	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-D3 5/7/2024	
Depth (bgs)	Chromium
3.5-7.5'**	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B4 5/14/2024	
Depth (bgs)	Chromium
7-11'*	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

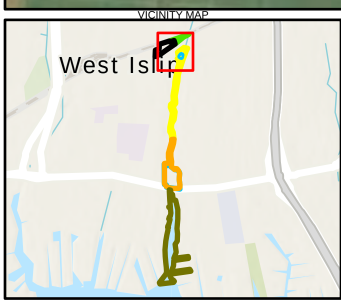
ISB-B1 5/10/2024	
Depth (bgs)	Chromium
4-8'**	**510**
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-B3 5/9/2024	
Depth (bgs)	Chromium
3.5-7.5'**	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-D2 5/8/2024	
Depth (bgs)	Chromium
3.5-7.5'**	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

ISB-D1 5/8/2024	
Depth (bgs)	Chromium
3.5-7.5'**	ND
11-15'	ND
21-25'	ND
31-35'	ND
41-45'	ND

VICINITY MAP



0 200
Feet
N

Legend

A Monitoring Well

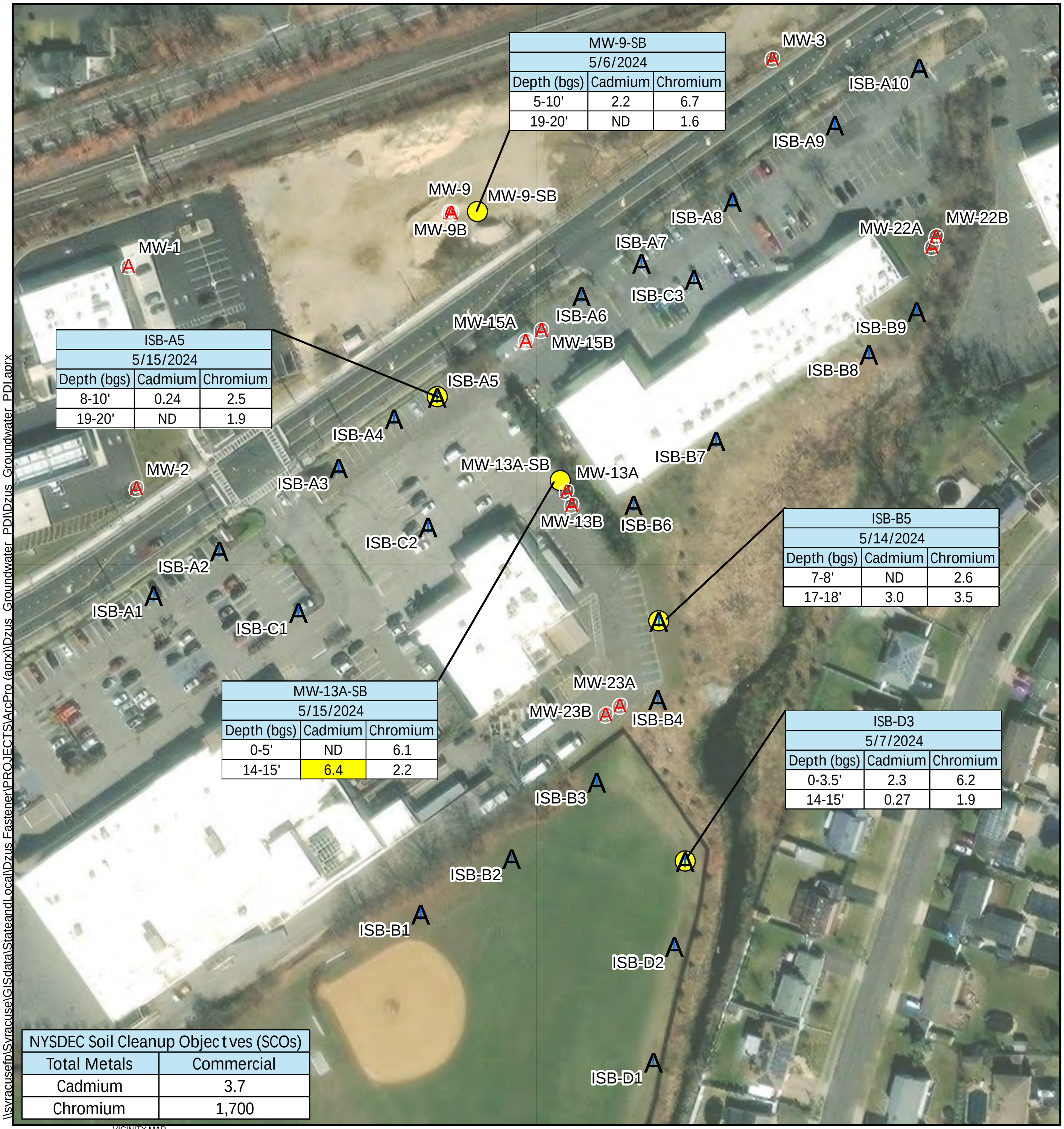
A In-Situ Boring Location

Notes:
Groundwater analytical results are presented in units of micrograms per liter (µg/L).
Bold and highlighted values exceed the NYSDEC AWQS value of 50 µg/L for Dissolved Chromium.
* = Sampled on 4 June 2024
** = Sampled on 5 June 2024

Figure 8
Groundwater Chromium Results (Dissolved)
Dzus Fastener Co., Inc.
West Islip, New York

Map Date: 8/6/2024
Projection: NAD 1983 State Plane New York Long Island FIPS 3102 (US Feet)

NEW YORK STATE Department of Environmental Conservation



MW-9-SB		
5/6/2024		
Depth (bgs)	Cadmium	Chromium
5-10'	2.2	6.7
19-20'	ND	1.6

ISB-A5		
5/15/2024		
Depth (bgs)	Cadmium	Chromium
8-10'	0.24	2.5
19-20'	ND	1.9

ISB-B5		
5/14/2024		
Depth (bgs)	Cadmium	Chromium
7-8'	ND	2.6
17-18'	3.0	3.5

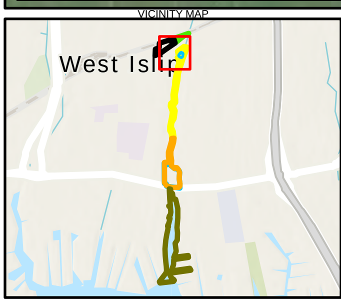
MW-13A-SB		
5/15/2024		
Depth (bgs)	Cadmium	Chromium
0-5'	ND	6.1
14-15'	6.4	2.2

ISB-D3		
5/7/2024		
Depth (bgs)	Cadmium	Chromium
0-3.5'	2.3	6.2
14-15'	0.27	1.9

NYSDEC Soil Cleanup Object ves (SCOs)	
Total Metals	Commercial
Cadmium	3.7
Chromium	1,700

\\syracusefp\Syracuse\GISdata\StateandLocal\Dzus Fastener\PROJECTS\ArcPro (aprx)\Dzus_Groundwater_PDI\Dzus_Groundwater_PDI.aprx

VICINITY MAP



0 150
Feet

N

Legend

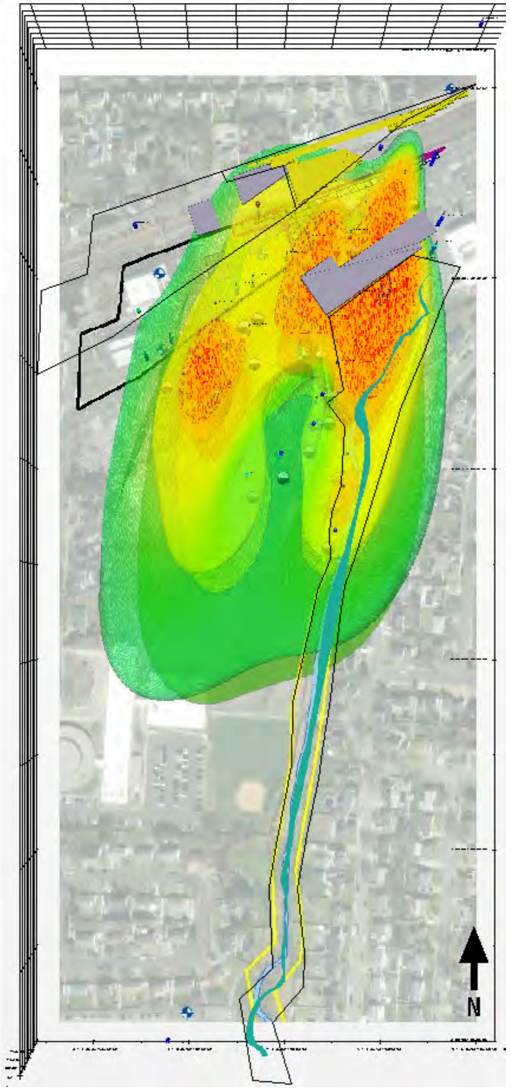
- Monitoring Well
- In-Situ Boring Location
- Soil Sample Location

Figure 9
Soil Cadmium and Chromium Results
Dzus Fastener Co., Inc.
West Islip, New York

Notes:
Soil analytical results are presented in units of milligram(s) per kilogram (mg/kg).
Bold and highlighted values exceed the NYSDEC AWQS value of 5 µg/L for Total Cadmium.

Map Date: 8/6/2024
Projection: NAD 1983 State Plane New York Long Island FIPS 3102 (US Feet)

NEW YORK STATE | Department of Environmental Conservation



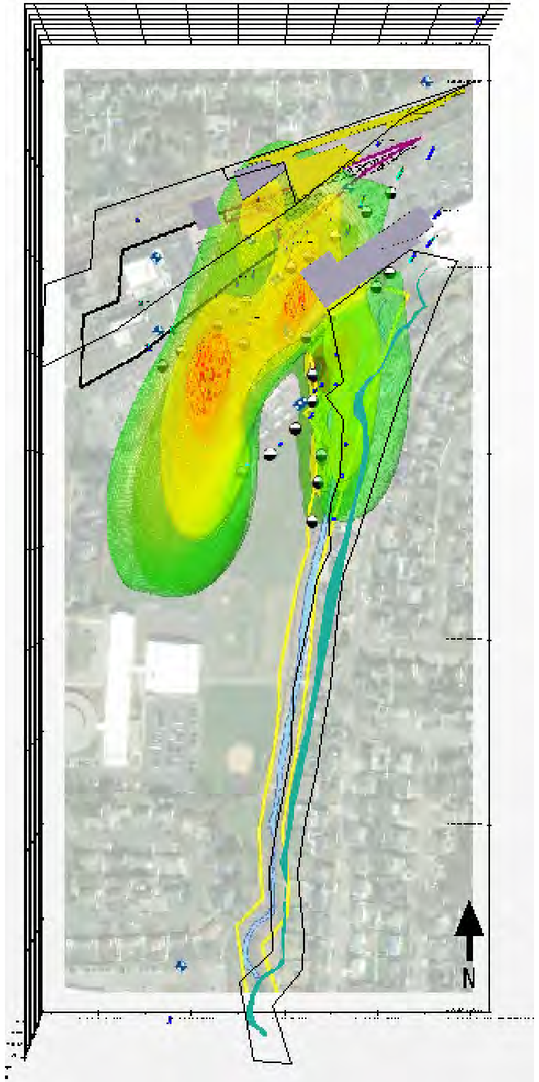
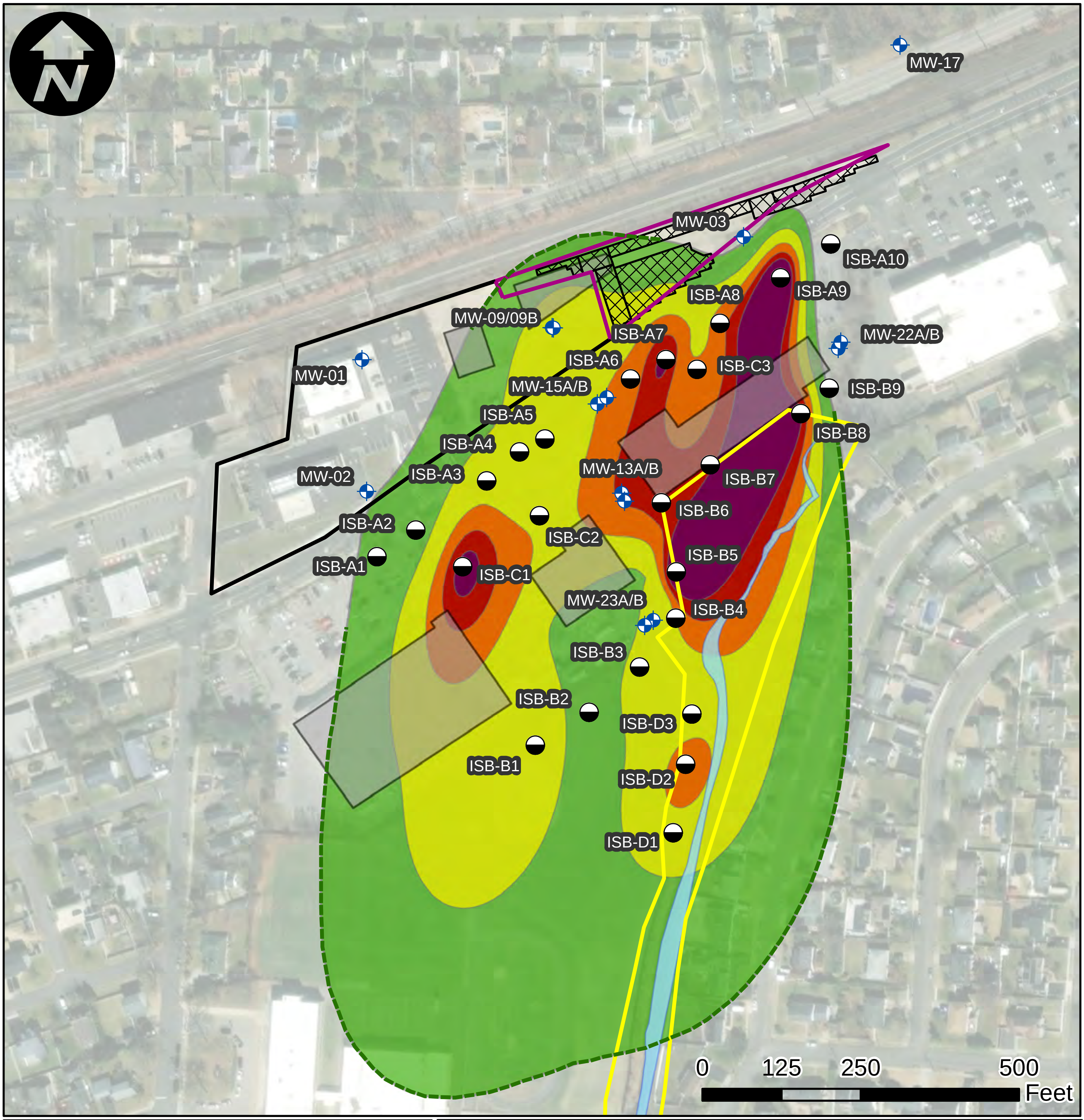
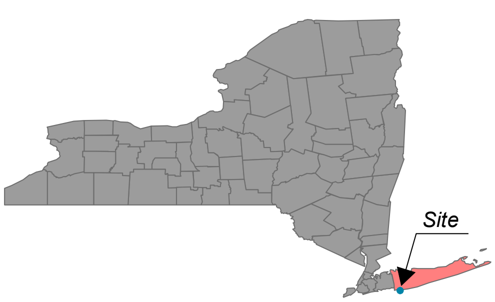


Figure 10.
Snapshot of Three-Dimensional Cadmium Plumes
Former Dzus Fastener Company, Inc.
Groundwater Pre-Design Investigation Report





Legend

Soil Boring
Monitoring Well
OU1
OU3
OU6
ISS Area
Existing Structures
Willetts Creek

Total Cadmium
µg/L

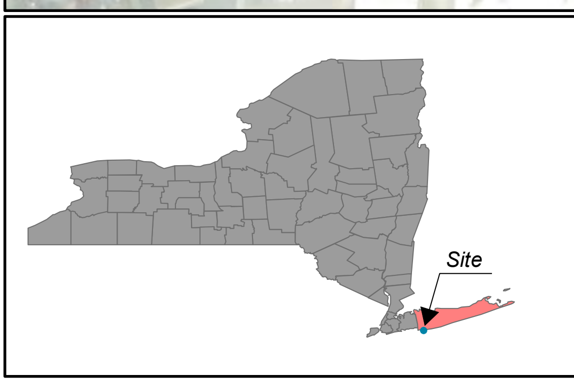
5 - 25
25 - 100
100 - 250
250 - 500
> 500

Notes:
-5 µg/L contour dashed where inferred
-Groundwater samples taken during June 2024
Acronyms:
ISS = In-Situ Stabilization
OU = Operable Unit
µg/L = micrograms per liter

NEW YORK STATE | Department of Environmental Conservation

Total Cadmium Groundwater Plume - Plan View

Figure 11



Legend

- Soil Boring
- Monitoring Well
- OU1
- OU3
- OU6
- ISS Area
- Existing Structures
- Willetts Creek

Dissolvedl Cadmium µg/L

- 5 - 25
- 25 - 100
- 100 - 250
- 250 - 500
- > 500

Notes:
-5 µg/L contour dashed where inferred
-Groundwater samples taken during June 2024
Acronyms:
ISS = In-Situ Stabilization
OU = Operable Unit
µg/L = micrograms per liter

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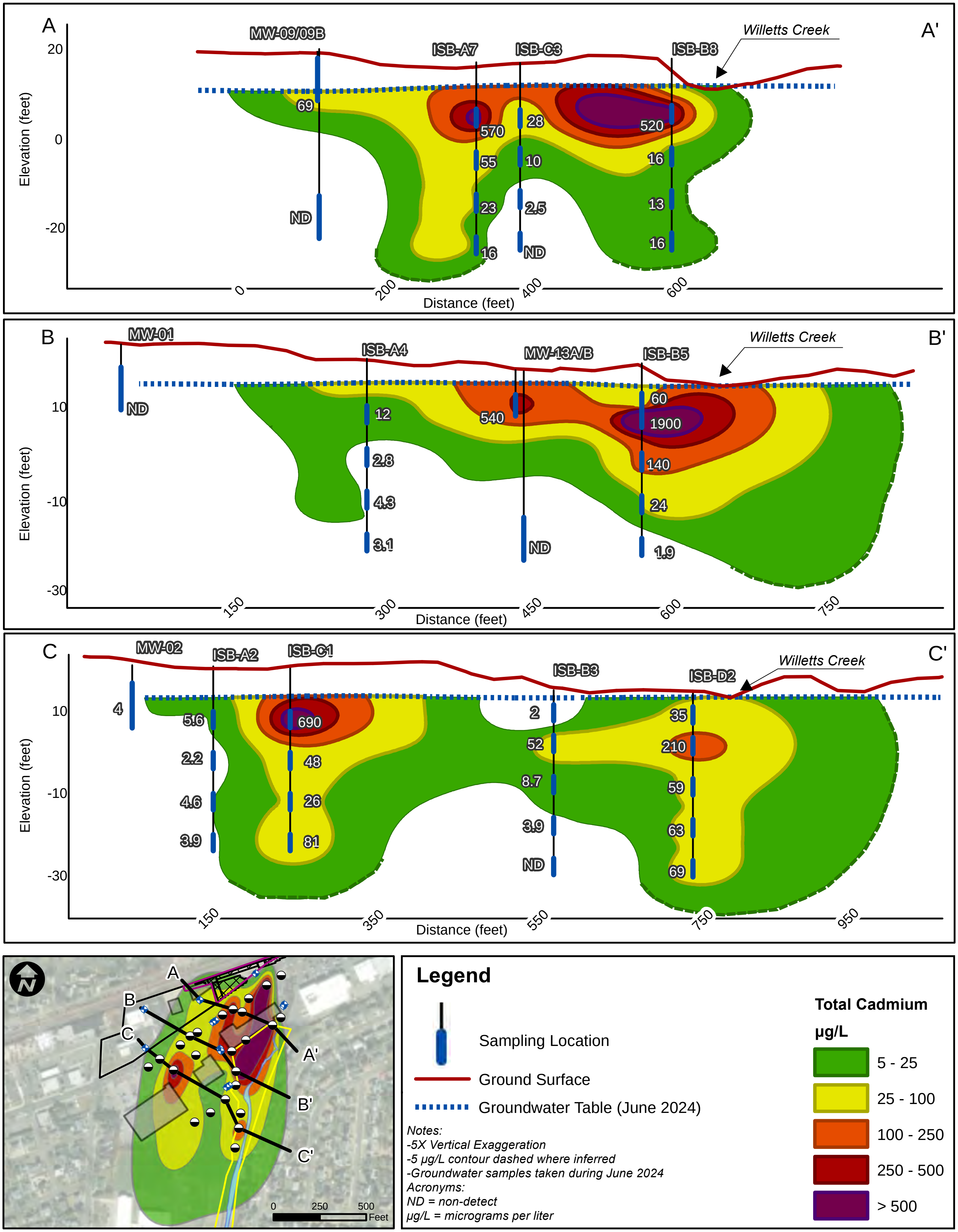
Dissolved Cadmium Groundwater Plume - Plan View

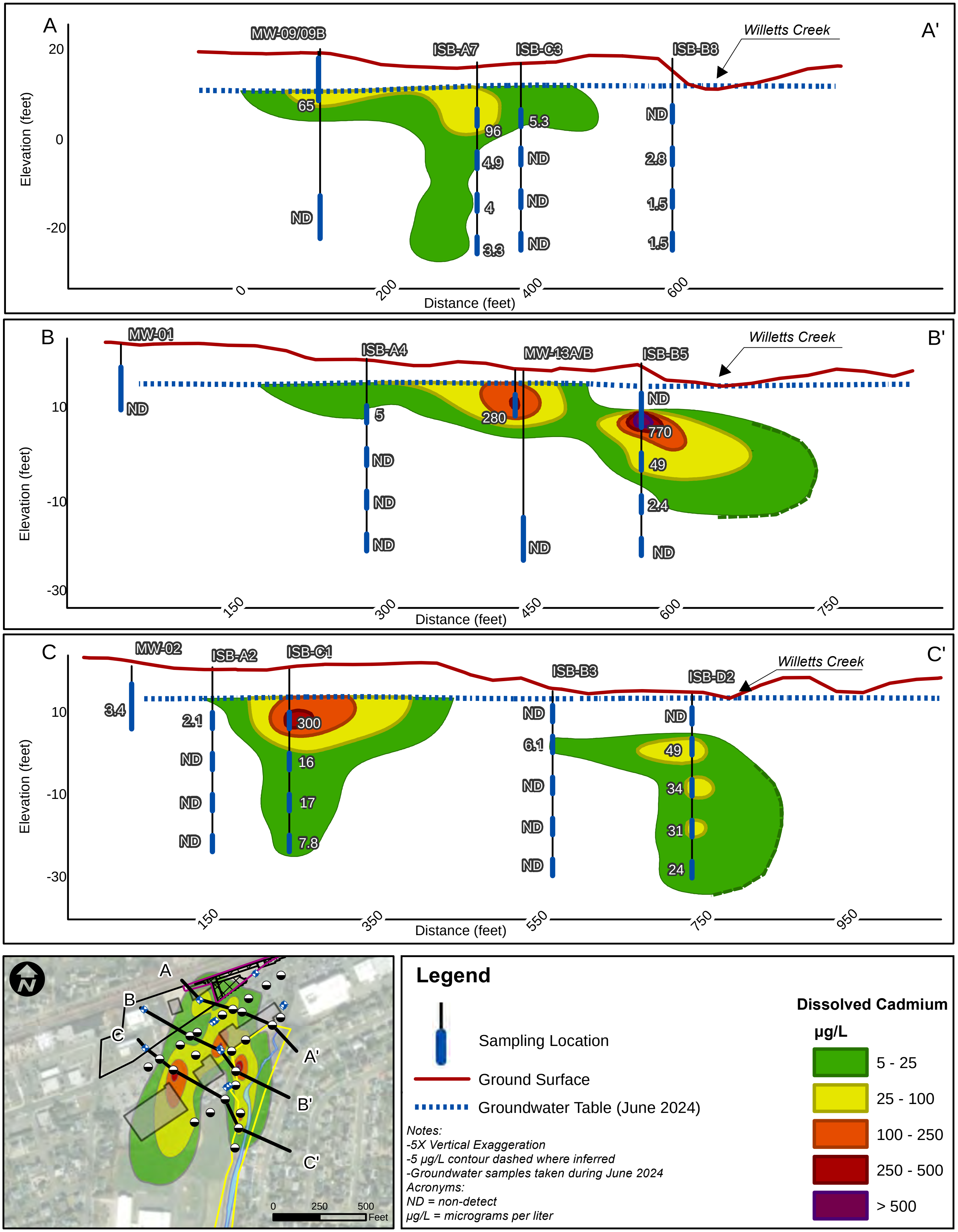
Figure 12



NEW YORK STATE Department of Environmental Conservation

Total Cadmium Groundwater Plume - Transect View

Figure 13



Dissolved Cadmium Groundwater Plume - Transect View

Figure 14

Appendix A

Field Forms

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	1602515
Drilling Method:	DPT Geoprobe
Sampling Method:	macro-core
Location:	OU1
Soil Boring Number:	MW-9-SB
Sheet	1 of 1

Coordinates: Northing: ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE: 5/6	DATE:
TIME: 0730	TIME:

Surface Conditions: Asphalt
Weather: ~~52~~ cloudy, drizzle
Temperature: 52°F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
				0		0-0.15 - Asphalt
N/A	5/5			1	GM	0.15-0.5 - grey, loose m-c angular gravel, some silt
				2		0.5-2 - brown, (fill) m-c sand, with brown silt, moist some subrounded gravel
				3		2-5' - loose brown fill, m-c subrounded gravel,
				4		some brown silt, moist, little F-C sand
				5		5'-8.3' - loose brown fill m-c subrounded gravel, some silt, little F-C sand, moist
	5/2.3			6		
				7		7.40 water depth
				8		8.3-8.6' - loose, light brown fill F-M subrounded gravel some light brown silt, moist
				9		8.6-9.5 - loose dark tan F-M sand, little F-M subrounded gravel, trace brown F silt, moist
				10	~~SP~~ SW	9.5-10 - loose, greyish tan m-c sand, some F-C subrounded gravel, wet
				11	~~SP~~ SW	~~10-11~~ - loose, F-C greyish tan sand, little F-M subrounded gravel, wet
	5/3			12		
				13		
				14	SW	14-15 - loose greyish tan F-C sand, some F-M subrounded gravel, wet
				15		
				16	SW	15-17.7 loose, greyish tan F-C sand, little F-M subrounded
	5/3.5			17		gravel, wet
				18	SW	17.7-20 - loose, greyish tan F-M sand, little F-M subrounded gravel, wet
				19		
				20		
	5/3.5			21	SW	21-23.5 - loose, greyish tan F-M sand, little FM
				22		subrounded gravel, wet
				23	SW	23.5-24 - loose, greyish tan F-C sand, some F-M
				24	SW	subrounded gravel, wet 24-25 - loose greyish tan F-M sand, little F-M sub gravel
				25	SW	25-29 - loose, greyish tan F-M sand, trace F-M sub gravel
	5/4			26		wet
				27		
				28		
				29	SW	29-30 - loose greyish tan F-C sand, little F-M sub gravel wet

water @ 9.5' bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: Lincoln Buckman-Lowe
Date: 5/6/24
Drilling Contractor: LAWES
Driller: Kevin

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	Client: NYSDEC
	Project:
Drilling Method:	
Sampling Method:	
Location:	
Soil Boring Number:	
Sheet 2 of	

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE:	DATE:
TIME:	TIME:

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2.5			30		30-35 - loose, greyish tan F-M sand,
				31	SPW	little F-M subrounded gravel, wet
				32		
				33		
				34		
	5/3			35		35-36 - loose greyish tan F-M sand, trace F-M subround gravel wet
				36		
				37		36-38.5 loose greyish tan M-C sand, little F-C subgravel wet
				38		38.5-40 loose greyish tan F-C sand, little F-M subround gravel, wet
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/6/24
Driller: Scott

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Location:	Stop + Shop Lot
Drilling Method:	
Soil Boring Number:	MW-13A-SB
Sampling Method:	DPT - Geoprobe
Sheet	1 of 2
Coordinates: Northing	
Easting	
Surface Elevation:	
Casing Below Surface:	
Reference Elevation:	
Reference Description:	
Water Level:	
Time:	
Date:	
Drilling Start DATE:	5/15
Drilling Start TIME:	0952
Drilling Finish DATE:	
Drilling Finish TIME:	
Surface Conditions:	asphalt
Weather:	58°F, rain
Temperature:	

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0–4	ML; SW	(0.0-0.25) Asphalt (0.25-1) Loose brown silt, some gravel ~~(1-5 ... WG F-C Sand)~~ (1-5) Loose, tan WG F-C Sand, some gravel F-C, sub-rounded - moist
	5/3			5–9	SW	(7-10) loose, tan WG F-C Sand, Some gravel F-C, sub rounded, wet
	5/3.3			10–14	SW	(11.7-15) Loose tan WG F-C Sand little gravel F-C subrounded, wet.
	5/2.8			15–19	SW	(17.2-20) Loose, tan WG F-C sand little F-C subrounded gravel - wet.
	5/4			20–24	SW	(21-25) Loose Tan WG F-C Sand, little F-C subrounded gravel, wet
	5/3.5			25–29	SW	(26-29.5) Loose, Tan WG F-C Sand little subrounded gravel, wet.

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/15/24
Driller: Kevin McCourty

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Location:	Shop + Shop Lot
Drilling Method:	DPT - Geoprobe
Soil Boring Number:	MW-13A-SB
Sampling Method:	Macro core
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE:	DATE:
TIME:	TIME:

Surface Conditions: Asphalt
Weather: 60° Sun
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
				30		(31.2-35') Loose tan W/G F-C Sand,
	5/3.8			31	SW	little F-C subrounded gravel, wet.
				32		
				33		
				34		
				35		(36.2-40) Loose tan W/G F-C Sand,
	5/3.8			36	SW	little F-C subrounded gravel, wet.
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: RM
Drilling Contractor: LAWES
Date: 5/15/24
Driller: Kevin McCarthy

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Pews
Drilling Method:	DPT Geoprobe
Sampling Method:	Macro core
Location:	Shop+Shop lot
Soil Boring Number:	SB-41
Sheet	1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/16	5/16
TIME:		

Surface Conditions: Asphalt
Weather: Cloudy 65°F
Temperature:

water @ ~9.2 bgs

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
				0		(0.0-0.25') asphalt
	5/5			1	ML	(0.25'-1') loose brown silt, little sand, some subrounded gravel, dry
				2		
				3	SW	(1'-5') loose, tan WG F-C sand, little F-C subrounded gravel, moist
				4		
				5		(6.5-10') loose tan WG F-C sand, little F-C subrounded gravel, moist -> wet
	5/3.5			6	SW	
				7		
				8		
				9		
				10		(12.8-15') loose, tan, WG F-C sand, little F-C subrounded gravel, wet.
	5/2.2			11	SW	
				12		
				13		
				14		
				15	SW	(16.1-20') loose, tan, WG F-C sand, little F-C subrounded gravel, wet.
	5/3.9			16		
				17		
				18		
				19		
				20	SW	(22.8-25') loose, tan, WG F-C sand, little F-C subrounded gravel, wet.
	5/2.2			21		
				22		
				23		
				24		
				25	SW	(26.9-30') loose, tan, WG F-C sand, little F-C subrounded gravel, wet.
	5/3.1			26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/16/24
Driller: Kevin McCourt

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Drugs
Location:	Stop + Shop Lot
Soil Boring Number:	ISB-41
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro Core
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/16	5/16
TIME:		

Surface Conditions: Asphalt
Weather: 60°F Rain
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SW	(32-35') loose, tan W/G F-C sand, little F-C subrounded gravel.
	5/3			31		
				32		
				33		
				34		
				35		(36.5-40') loose, tan W/G F-C sand, little F-C subrounded gravel
	5/3.5			36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: itan
Drilling Contractor: LAWES
Date: 5/16/24
Driller: Kevin McGinn

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SOIL BORING LOG

Job. No.	Client: NYSDEC
	Project: DZUS
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro Core
Location:	Stopship Lot ESB-A2
Soil Boring Number:	ESB-A2
Sheet	1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/17	5/17
TIME:		

Surface Conditions: Asphalt
Weather: 60°F, cloudy
Temperature:

water@ ~8.85' bgs

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
				0		(0.0-0.25') Asphalt
	5/5			1	ML	0.25-1') Loose Brown silt w/little F-C sand, some
				2		F-C subrounded gravel, dry
				3	SW	(1'-5') Loose, tan WG F-C sand, little F-C
				4		subrounded gravel, dry
	5/2.7			5		
				6	SW	(7.3-10) Loose, tan WG F-C sand, little F-C
				7		subrounded gravel, moist -> wet.
				8		
				9		
	5/2.6			10	SW	(12.4-15') Loose, tan WG F-C sand, little
				11		F-C subrounded gravel, wet
				12		
				13		
				14		
	5/2.4			15	SW	(17.6-20) Loose, tan, WG F-C sand, little
				16		F-C subrounded gravel, wet.
				17		
				18		
				19		
	5/2.6			20	SW	(22.4-25') Loose, tan WG F-C sand little
				21		F-C subrounded gravel, wet.
				22		
				23		
				24		
	5/2			25	SW	(28-30') Loose tan WG F-C sand little
				26		F-C subrounded gravel, wet
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/17/24
Driller: Kevin McCarty

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro-Core
Location:	Stop+Shop Lot
Soil Boring Number:	ISB-A2
Sheet	2 of 2

Coordinates: Northing ________ Easting: ________
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/17	5/17
TIME:		

Surface Conditions: Asphalt
Weather: Cloudy, 60°F
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2			30	SW	(33-35') Loose, tan, WG, F-C sand, little F-C subrounded gravel, wet.
				31		
				32		
				33		
				34		
	5/3			35	SW	(37-40') Loose tan WG F-C sand, little F-C subrounded gravel, wet.
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/17/24
Driller: Kevin McCarthy

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SOIL BORING LOG

Job. No.	Client: NYSDEC		Location: Stop + shop lot
	Project: Dave		
Drilling Method:	DPT Geoprobe		Soil Boring Number: ESB-A3
Sampling Method:	Micro Core		Sheet 1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE: 5/16	DATE:
TIME:	TIME:

Surface Conditions: Asphalt
Weather: 66 °F, Overcast
Temperature:

water @ ~8.5' bgs

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
				0		(0.0-0.25') Asphalt
	5/5			1	ML	(0.25'-1') Loose brown silt, little sand, some subrounded gravel, dry
				3	SW	(1-5') Loose tan WG F-C sand, little F-C subrounded gravel - dry
	5/3			5	SW	(7-10') Loose tan WG F-C sand, little F-C subrounded gravel moist - wet
	5/2.6			10	SW	(12.4-15) Loose tan WG F-C sand, little F-C subrounded gravel, wet
	5/2.4			15	SW	(17.6-20') Loose, tan WG F-C sand, little F-C subrounded gravel, wet
	5/2.8			20	SW	(22.2-25) Loose, tan WG F-C sand, little F-C subrounded gravel, wet.
	5/2.5			25	SW	(27.5-30) Loose, tan WG F-C sand little F-C subrounded gravel, wet.

Depth rows printed: 0–29.

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/16/24
Driller: Kevin McCourt

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	DPT Geoprobe
Sampling Method:	Macro Core
Location:	Stop-shop lot
Soil Boring Number:	ISB-A8
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/16	5/16
TIME:		

Surface Conditions: Asphalt
Weather: 65°F, Overcast
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SW	(32.3 -35') loose, tan, WG F-C Sand, little F-C subrounded gravel, wet
	5/2.7			31		
				32		
				33		
				34		
				35	SW	(37.6-40') loose, tan, WG F-C Sand, little F-C subrounded gravel, wet
	5/2.4			36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: Lautz S
Date: 5/16/24
Driller: Kevin McCarthy

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro-core
Location:	Stop&Shop Front Lot
Soil Boring Number:	ISB-A4
Sheet	1 of 2

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/14	
TIME:		

Surface Conditions: Asphalt
Weather: Partly Cloudy
Temperature: 66°F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0–5	ML-SW	(0-0.25) Asphalt (0.25-1') Loose, Dark silty Sand, Some sub-angular gravel (F-C) moist (1'-5') Loose, tan, WG F-C Sand, little F-C subrounded gravel - dry to moist
	5/3			5–10	SW	(7-10) Loose, tan WG F-C Sand, little F-C subrounded gravel moist-wet note: color change ~@ 9.1' bgs - reddish hue
	5/2.9			10–15	SW	(12.1-15) Loose, tan, WG F-C Sand, little F-C subrounded gravel, wet
	5/2			15–20	SW	(17-20) loose, tan, WG F-C Sand, little F-C subrounded gravel, wet
	5/2.8			20–25	SW	(22.2-25) loose tan WG F-C Sand, little F-C subrounded gravel, wet
	5/2.7			25–30	SW	(27-29.7) loose tan WG F-C Sand, little F-C subrounded gravel, wet

water ~@ 9.1' bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/14/24
Driller: Kevin McCourty

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SOIL BORING LOG

Job. No.	Client: NYSDEC		Location: Stop+Shop Frontlot
	Project: Dzus		Soil Boring Number:
Drilling Method: DPT - Geoprobe			
Sampling Method: Micro - core			Sheet 2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE: 5/14	DATE:
TIME:	TIME:

Surface Conditions: Asphalt
Weather: ~~Asph~~ Partly Cloudy
Temperature: 65°F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2.2			30	SW	(32.8-35) Loose, tan WG F-C sand, little F-C subrounded gravel, wet
				31		
				32		
				33		
				34		
	5/3.2			35	SW	(36.8-40) Loose tan WG F-C Sand, little F-C subrounded gravel, wet
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/14/24
Driller: Kevin McCourty

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SOIL BORING LOG

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No. | Client: NYSDEC | Project: Dzus
Drilling Method: DPT - Geoprobe
Sampling Method: Micro core

Location: Stop+shop Lot
Soil Boring Number: EB-A5
Sheet 1 of 2

Water Level: | Time: | Date:

Drilling — Start DATE: 5/15 TIME: — Finish DATE: TIME:

Surface Conditions: Asphalt
Weather: Rain 60°F
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0		(0-0.25') Asphalt
				1		(0.25'-1') Loose brown silt, some sub-rounded gravel, moist
				2	ML	
				3	SW	(1'-5') Loose Tan ~~WG~~ F-C sand, little F-C subrounded gravel - moist.
				4		
	5/2.5			5	SW	(7.5-10) Loose, Tan, WG F-C sand, little F-C subrounded gravel moist - wet
				6		
				7		
				8		
				9		
	5/2.8			10	SW	(12.2-15) Loose, Tan WG F-C Sand, little F-C subrounded gravel, wet
				11		
				12		
				13		
				14		
	5/2.9			15	SW	(17.1-20) Loose, Tan WG F-C Sand, little F-C subrounded gravel, wet.
				16		
				17		
				18		
				19		
	5/2.2			20	SW	(22.8-25) Loose, Tan WG F-C Sand, little F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/2.9			25	SW	(27.1-30) Loose, Tan WG F-C Sand, little F-C subrounded gravel, wet
				26		
				27		
				28		
				29		

water ~9' bgs

Monitoring Well Construction Information
Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information
Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/15/24
Driller: Kevin McLoorty

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dews
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro Core
Location:	Stop+Shop Lot
Soil Boring Number:	ISB-A5
Sheet	2 of 2

Coordinates: Northing ________ Easting: ________
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:
Time:
Date:

Drilling	Start	Finish
DATE:	5/15	
TIME:		

Surface Conditions: Asphalt
Weather: Rain, 60°F
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/4.3			30	SW	(30.7-35') Loose, Brown, WG F-C sand, v. little F-C Gravel subrounded, wet
				31		
				32		
				33		
				34		
	5/2.8			35	SW	(37.2-40) Loose Tan, WG F-C Sand, little F-C Gravel, subrounded, wet
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ____ in
Bottom of Monitoring Well: ____ ft bgs
Stick Up or Flush Mount: ____
Screen Interval: ____ To ____ ft bgs
Riser Interval: ____ To ____ ft bgs
Sand Pack Interval: ____ To ____ ft bgs
Bentonite Seal: ____ To ____ ft bgs
Grout Interval: ____ To ____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ____ ft
Bottom of Tubing: ____ ft
Top of Sand Pack: ____ ft
Top of Bentonite Seal: ____ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/15/24
Driller: Kevin McCourty

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZWS
Drilling Method:	Direct Push GeoProbe
Sampling Method:	Macrocore
	OD
Location:	Ace Hardware Lot
Soil Boring Number:	ISB-A6
Sheet	1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/21	5/21
TIME:	0715	0835

Surface Conditions: Asphalt, dry
Weather: 56°F, mostly cloudy
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/5			0	OL	0-1.5- loose, dark brown, silty sand, some gravel, little organic matter, moist
				1		
				2	SW	1.5-5- loose, tan, WG F-C sand, little subrounded F-M gravel, moist
				3		
				4		
	5/3.3			5		5-10- loose, tan, WG F-C sand, some WG F-C subrounded gravel, wet @ 7.65 ft
				6		
		▽		7		
				8		
				9		
	5/3			10		10-15 - loose, tan, F-C sand, trace F-C WG subrounded gravel, wet
				11		
				12		
				13		13-13.5 - increase WG F-C subrounded gravel to 70%
				14		
	5/2.7			15		15-20 - loose, tan, WG F-C sand, little WG F-C subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/3.5			20		20-25- loose, tan, WG F-C sand, little WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/2.5			25		25-30- loose, tan, WG F-C sand, trace WG F-M subrounded gravel, wet
				26		
				27		
				28		
				29		

water @ 7.65

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/21/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct Push GeoProbe
Sampling Method:	Macrocore
Location:	Ace Hardware Lot
Soil Boring Number:	ISB-A6
Sheet	2 of 2

Coordinates: Northing ______ Easting ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/21	5/21
TIME:	0715	0835

Surface Conditions: asphalt, dry
Weather: 56°F, mostly cloudy
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2.2			30	SW	30-35- loose, tan, WG F-C sand, no gravel, wet
				31		
				32		
				33		
				34		
	5/4			35		35-40- loose, tan, WG F-C sand, WG F-M trace gravel, wet
				36		
				37		
				38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/21/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	Client: NYSDEC / Project: D245	Location: Ace Hardware Lot	
Drilling Method:	Direct Push Geoprobe	Soil Boring Number: ISB-A7	
Sampling Method:	Macrocore	Sheet 1 of 2	

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:
Time:
Date:

Drilling	Start	Finish
DATE:	5/21	5/21
TIME:	1142	1305

Surface Conditions: asphalt, dry
Weather: 63°F, partly sunny
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OH	0-4 - Sandy organic soil with gravel, loose, dark brown, silty sand, some gravel, some ~~organic matter~~, moist
				1		
				2		
				3		
				4	SW	4-5 - loose, grey, WG M-C sand, some WG F-C subrounded gravel, ~~[illegible]~~ moist
	5/0			5		5-10 - no recovery
				6		
				7		
				8		
				9		
	5/3			10	SW	10-15 - loose, tan, WG F-C sand, some WG F-M subrounded gravel, wet
				11		
				12		
				13		
				14		
	5/2.5			15		15-20 - loose, tan WG F-C sand, some WG F-C subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/2.4			20		20-25 - loose, tan, WG M-C sand, trace WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/3.1			25		25-30 - loose, tan, WG M-C sand, trace WG, F-C subrounded gravel, wet
				26		
				27		
				28		
				29		

water @ between 5-10' bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/21/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	D2115
Drilling Method:	Direct Push Geoprobe
Sampling Method:	Macrocore
Location:	Ace Hardware lot
Soil Boring Number:	ISB-A7
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/21	5/21
TIME:	1142	1305

Surface Conditions: asphalt, dry
Weather: 63°F, partly sunny
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/2.6			30	SW	30-35- loose, tan, WG F-C sand, trace WG F-C gravel, wet
				31		
				32		
				33		
				34		
	5/3.8			35		35-40- loose, tan, WG F-C sand, trace gravel, wet
				36		
				37		
				38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/21/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Location:	Ace Hardware Lot
Drilling Method:	Direct Push (DPT) Geoprobe
Soil Boring Number:	ISB-A8
Sampling Method:	Macrocore
Sheet	1 of 2

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/22	5/22
TIME:	0715	0845

Surface Conditions: asphalt, dry
Weather: sunny
Temperature: 63°F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OH	0-5 - sandy organic soil with gravel, loose, dark brown, silty sand, some gravel, some organic matter, moist
				1		
				2		
				3		
				4		4.5-5 - color change to grey.
	5/3	∇		5	SM	5-7.5 - loose, brown, WG M-C sand with trace silt and WG F-C gravel (~40%), moist, wet at 7.05 ft bgs
				6		
				7		
				8		7.5-10 - loose, dark brown, WG M-C sand, trace silt with some WG F-C subrounded gravel, wet
				9		
	5/3.6			10		10-11.5 - loose, dark brown, WG F-C sand, trace silt with ~~little~~ [illegible] WG F-C subrounded gravel, wet
				11		
				12	SW	11.5-15 - loose, tan, WG F-C sand, with some WG F-C subrounded gravel, wet
				13		
				14		12-12.5 - change to no gravel
	5/2.3			15		15-20 - loose, tan, WG F-C sand, with some WG F-C subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/2.4			20		20-25 - loose, tan, WG, F-C sand, with little WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/2.2			25		25-30 - loose, tan, WG, F-C sand, with little WG F-C subrounded gravel, wet
				26		
				27		
				28		
				29		

water @ 7.05' bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/22/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	D245
Drilling Method:	Direct Push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Ace Hardware Lot
Soil Boring Number:	SB-A8
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE: 5/22	DATE: 5/22
TIME: 0715	TIME: 0845

Surface Conditions: asphalt, dry
Weather: sunny
Temperature: 63°F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SW	30-35 - loose, tan, WG F-C sand, with trace to no gravel, wet
	5/4.5			31		
				32		
				33		
				34		
				35		35-40 - loose, tan, WG F-C sand with no gravel, wet
	5/2.2			36		
				37		
				38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/22/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	Client: NYSDEC	Location: Ace Hardware Lot
	Project: DZUS	
Drilling Method: Direct Push (DPT) Geoprobe		Soil Boring Number: ISB-A9
Sampling Method: Macrocore		Sheet 1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE: 5/22	DATE: 5/22
TIME: 1145	TIME: 1315

Surface Conditions: asphalt, dry
Weather:
Temperature: 71°F, sunny

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OH	0-4.5 - sandy organic soil with gravel, loose, dark brown/black silty sand, some gravel, some organic matter, moist
				1		
				2		
				3		
				4	SW	4.5-5 - loose, grey, WG F-C sand, with some WG F-M subrounded gravel, moist
	5/3.5 ▽			5	SM	5-10 - loose, brown, WG M-C sand with little silt and WG F-C gravel (~40%), wet @7.55
				6		
				7		
				8		8.5-10 - color change to dark brown.
				9		
	5/3.5			10	SW	10-15 - loose, dark brown, WG F-C sand, with some WG F-C subrounded gravel, wet
				11		
				12		
				13		13.5-15 - color change to tan
				14		
	5/2.3			15		15-20 - loose, tan, WG F-C sand, with some WG F-C subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/3			20		20-25 - loose, tan, WG F-C sand, with some WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/2.9			25		25-30 - loose, tan, WG F-C sand, with some WG F-C subrounded gravel, wet
				26		
				27		
				28		
				29		29-30 - color change to brown

water @ 7.55

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/22/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct Push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Ace Hardware Lot
Soil Boring Number:	ISB-A9
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

~~Water Level:~~				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/22	5/22
TIME:	1145	1315

Surface Conditions: asphalt, dry
Weather: 71°F, sunny
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/3.9			30	SW	30-35 - loose, ~~brn~~ tan, WG F-C sand, some WG F-C subrounded gravel, wet
				31		
				32		
				33		
				34		
	5/1.9			35		35-40 - loose, tan, WG F-C sand, with some WG F-C subrounded gravel wet
				36		
				37		
				38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/22/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Ace Hardware Lot
Soil Boring Number:	SB-A10
Sheet	1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/23	5/23
TIME:	1245	1420

Surface Conditions: asphalt, wet
Weather:
Temperature: 70°F, partly cloudy, high humidity

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OH	0-4 - loose, dark brown, sand, some gravel, trace silt, little organic matter, moist
				1		
				2		
				3		
				4	SW	4-5 - loose, tan, WG FC sand, some gravel, moist
	5/2.3			5		7.7-8.2 - loose tan, WG F-C sand, some gravel, wet
				6		8.2-8.8 - loose, light gray, WG F-C sand, some WG F-C gravel, wet
				7		8.8-9.1 - gravel increase to 60%
				8		9.1-9.4 - gravel increase to 80%
				9		9.4-10 - gravel decrease to 60%, color change to dark gray
	5/3.3			10		10-12.8 - loose, dark brown, WG F-C sand, with some WG F-C gravel, wet
				11		
				12		12.8-15 - color change to medium/light brown
				13		
				14		14-15 - gravel change to trace gravel
	5/2.7			15		15-20 - loose, tan, WG F-C sand, with trace WG F-C gravel, wet
				16		
				17		18.5 - increase gravel to "some" gravel
				18		
				19		
	5/3			20		20-25 - loose, tan, WG F-C sand, with trace gravel, wet
				21		
				22		
				23		
				24		
	5/2.6			25		25-30 - loose tan, WG F-C sand, with little gravel, wet
				26		
				27		
				28		
				29		

water @ approx 7.7 ft bgs *

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/23/2024
Driller: Scott Pederson

* = Entire core wet, water level between 5-7.7 ft bgs.

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SOIL BORING LOG

Job. No.	Client: NYSDEC	Location: Ace Hardware Lot
	Project: DZUS	Soil Boring Number: ISB-A10
Drilling Method: Direct Push (DPT) Geoprobe		Sheet 2 of 2
Sampling Method: Macrocore		

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:
Time:
Date:

Drilling — Start: DATE: 5/23 TIME: 1245 — Finish: DATE: 5/23 TIME: 1220

Surface Conditions: asphalt, wet
Weather:
Temperature: 70°F, partly cloudy, high humidity

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/4			30	SW	30-35- loose, tan, WG F-C sand, with trace gravel, wet
				31		
				32		
				33		
				34		
	5/3			35		35-40- loose, dark brown, WG F-C sand, with trace gravel, wet
				36		
				37		
				38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

N/A

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/23/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	DPT - Geoprobe
Sampling Method:	macro core
Location:	School ball field
Soil Boring Number:	ISB-B1
Sheet 1 of	

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:	4.50			
Time:	1110			
Date:	5/10/24			

Drilling	Start	Finish
DATE:	5/10	5/10
TIME:	0915	1105

Surface Conditions: grass
Weather: 59°F, rain
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OL	0-1 - loose loamy silt, dark brown, moist
				1	SP	1-1.5, loose, white, PG F sand, moist
				2	SW	1.5-5.0 - loose, tan, WG F-C sand, some F-C subrounded gravel
				3		
				4		
	5/3.4			5	SW	5-7.8 - loose, greyish tan, WG F-C sand, little F-M subrounded gravel, wet
				6		
				7	SW	7.8-10 - loose, tan, WG F-C sand, little F-M subrounded gravel, wet
				8		
				9		
	5/2.2			10	SW	10-15 - loose, greyish tan, WG F-C sand, little F-C subrounded gravel, wet
				11		
				12		
				13		
				14		
	5/1.7			15	SW	15-20 - loose, tan, WG F-C sand, little F-M subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/3			20	SW	20-24 - loose, tan, WG F-C sand, little F-M subrounded gravel, wet
				21		
				22		
				23		
	5/3.5			24	SP	24-25 - loose, tan, PG F sand, trace F subrounded gravel, wet
				25	SW	25-30 - loose, tan, WG F-C sand, little F-M subrounded gravel, wet
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/10/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	
Location:	school ball field
Soil Boring Number:	1SB-B1
Sheet	2 of 2
Drilling Method:	
Sampling Method:	

Coordinates: Northing ________ Easting: ________
Surface Elevation: ________
Casing Below Surface: ________
Reference Elevation: ________
Reference Description: ________

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE:	DATE:
TIME:	TIME:

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/4			30	SW	30-35 - loose, tan, WG F-C sand, wet
				31		
				32		
				33		
				34		
	5/2.8			35		35-40 - loose, tan, WG F-C sand, little F-M subrounded gravel, wet
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ____ in
Bottom of Monitoring Well: ____ ft bgs
Stick Up or Flush Mount: ____
Screen Interval: ____ To ____ ft bgs
Riser Interval: ____ To ____ ft bgs
Sand Pack Interval: ____ To ____ ft bgs
Bentonite Seal: ____ To ____ ft bgs
Grout Interval: ____ To ____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ____ ft
Bottom of Tubing: ____ ft
Top of Sand Pack: ____ ft
Top of Bentonite Seal: ____ ft

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/10/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	DPT geoprobe
Sampling Method:	macro core
Location:	school ball field
Soil Boring Number:	ISB-B2
Sheet	1 of 1

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:	4.05			
Time:	13:30			
Date:	5/9			

Drilling	Start	Finish
DATE:	5/9	~~5/33~~
TIME:	1200	1335

Surface Conditions: grass
Weather: 62°F, clouds
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/5			0	GM	0-1.5 - loose, sandy silt, dark brown, some angular gravel, moist
				1		
				2	SW	1.5-5 - ~ loose, tan, WG F-C sand, some F-C subrounded gravel
				3		
				4		
	5/3.5			5	SW	5-7.7 loose, greyish tan, WG F-C sand, little F-M subrounded gravel, wet
				6		
				7		
				8	SW	7.7-10 loose, tan, WG F-M sand, little F-M subrounded gravel, wet
				9		
	5/3.3			10		10-15 - loose, wet, tan WG F-M sand, trace F subrounded gravel
				11		
				12		
				13		
				14		
	5/1.5			15	SW	15-20 - loose, greyish tan, WG F-M sand, little subrounded F gravel, wet
				16		
				17		
				18		
				19		
	5/3.4			20	SW	20-25 - loose greyish tan ~~,~~ WG F-C sand, little F-M subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/3.8			25	SW	25-30 - loose, greyish tan WG F-C sand, little F subrounded gravel
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/9/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	Client: NYSDEC
	Project:
Drilling Method:	
Sampling Method:	

Location:

Soil Boring Number:

Sheet 2 of

Drilling	
Start	Finish
DATE:	DATE:
TIME:	TIME:

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SP	30 - 32.8 - loose, tan PG F sand, trace
	5/4			31		F subround gravel
				32	SW	32.8 - 35 - loose tan, WG F-C sand, some
				33		F-C subround gravel
				34		
				35	SW	35-40 - loose, greyish tan WG F-C sand,
	5/5			36		little F-M gravel
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______ ft bgs
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES

Date: 5/9/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Drilling Method:	Geoprobe DPT
Sampling Method:	Macro core
Location:	
Soil Boring Number:	1SB-B3
Sheet	1 of 1

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:	3.7			
Time:	09:20			
Date:	5/9/24			

Drilling	Start	Finish
DATE:	5/9	5/9
TIME:	0715	0915

Surface Conditions: grassy ball field
Weather: 58°F, cloudy
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OL	0-2 - Topsoil moist
				1		
				2	OL	2-3 - loam moist
				3	SM	3-5 - loose, silty sand, F-C sands, well graded, some dark brown silt, some M-C subround gravel
				4		
	5/4			5	GM	5-7.4 - loose, F-C subrounded gravel, some WG F-C sand, trace dark brown silt, wet
				6		
				7	SW	7.4-8 - loose, dark brown WG F-C sand, trace silt, trace F subround gravel
				8	SW	8-8.8 - loose, dark brown WG F-C sand, trace silt, wet
				9	SW	8.8-10 - greyish tan, WG F-C sand, little F-C subrounded gravel loose, wet
	5/3.5			10	SW	10-15 - loose, greyish tan WG F-C sand, little F-M subrounded gravel, wet
				11		
				12		
				13		
				14		
	5/2.9			15	SW	15-20 - loose, tan WG F-C sand, little F-M subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/3.8			20	SP	20-22 - loose, tan, PG M sand, little F subrounded gravel, wet
				21		
				22	SW	22-25 - loose, tan WG F-C sand, little F subrounded gravel, wet
				23		
				24		
	5/1.9			25	SW	25-30 - loose, greyish tan, WG F-C sand, little F subrounded gravel, wet
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/9/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	Client: NYSDEC	Location:
	Project:	Soil Boring Number:
Drilling Method:		Sheet 2 of
Sampling Method:		

Coordinates: Northing ______ Easting: ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Water Level:				
Time:				
Date:				

Surface Conditions:
Weather:
Temperature:

Drilling	
Start	Finish
DATE:	DATE:
TIME:	TIME:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	~~SW~~	loose, tan, PG F-~~M~~ sand, trace F gravel, wet
	5/1			31	SP	30-35
				32		
				33		
				34		
				35	SW	35-40- loose, tan, WG F-C sand, little
	5/4			36		F-M subrounded gravel
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: UBL
Drilling Contractor: LAWES
Date: 5/9/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro Core
Location:	
Soil Boring Number:	1SB-B4
Sheet	1 of 1
Drilling Start DATE: 5/14	TIME: 0720
Drilling Finish DATE: 5/14	TIME:
Coordinates: Northing	Easting:
Surface Elevation:	
Casing Below Surface:	
Reference Elevation:	
Reference Description:	
Water Level:	
Time:	
Date:	
Surface Conditions:	Grass
Weather:	55°F, sunny
Temperature:	

water ~8' bgs

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	ML	0-5 - loose brown silt, some gravel, large blue rip rap stones, dry (gravel components are mostly rip rap fill)
				1		
				2		
				3		
				4		
	5/4			5	SW	5-~~7.75~~ 7.2 - loose, brown, WG F-C sand, some dark brown silt, some F-C gravel, moist
				6		
				7	SW	7.2-7.7 - loose, greyish tan, WG F-C sand, little F-M subrounded gravel, moist
				8	SW	7.7-8.8 - loose, brown, WG F-C sand, trace brown F silt, m
				9	SP	8.8-9.8 - ~~tight~~ dense, brown, PG, F sand, trace brown F silt, wet
	5/3.6			10	SW	9.8-10 - loose, brown, WG - F-C sand, trace F brown silt,
				11	SW	10-12.7 - loose, brown WG - M-C sand, little F-M subrounded gravel, ~~little F brown silt~~, wet
				12		
				13	SW	12.7-13.2 - loose, dark tan, WG F-C sand, trace brown F silt, wet
				14	SW	13.2-15 - loose, greyish tan, WG F-C sand, trace F-M subrounded gravel, wet
	5/4.5			15	SW	15-20 - loose, tan, WG F-C sand, little F-C subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/2.9			20	SW	20-25 - loose, tan, WG F-C sand, little F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/2.7			25	SW	25-30 - loose, tan, WG F-C sand, little F-C subrounded gravel, wet
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/14/24
Driller: Kevin McConnty

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SOIL BORING LOG

Job. No.	Client: NYSDEC	Location:
	Project:	Soil Boring Number: SB-B4
Drilling Method:		Sheet 2 of 2
Sampling Method:		

Coordinates: Northing ______ Easting: ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Drilling	Start	Finish
DATE:	5/14	5/14
TIME:		

Water Level:
Time:
Date:
Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/3.6			30	SW	30-35 - loose, tan, w G F-C sand, trace F-M subrounded gravel, wet
				31		
				32		
				33		
				34		
	5/3.5			35	SW	35-40 - loose tan, w G F-C sand, little F-M subrounded gravel, wet
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

N/A

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/14/24
Driller: Kevin McCarty

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Drilling Method:	DPT-Geoprobe
Sampling Method:	Macro core
Location:	Stop + Shop back lot
Soil Boring Number:	SB-B5
Sheet	1 of 2
Drilling Start DATE:	5/14
Drilling Finish DATE:	5/14
Surface Conditions:	grass
Weather:	Sunny
Temperature:	60°F

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:
Time:
Date:

water ~8.6 bgs

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	ML	Loose, Dark, silty sand, some gravel, little organic matter moist (0'-1')
				1	SW-SM	Loose, Brown, sandy silt, some gravel, moist. (1'-5')
				2–4		
	~~2.8/5~~ 5/2.8		0	5	SM	(7.2-7.7) Loose, Dark silty sand, some gravel, little organic matter(?) moist
				7	SM	(7.7-8.4) Loose Dark, silty sand, some gravel, saturated w/ unidentified petroleum product -> Dark staining, faint petroleum odor
				9	SW	(8.4-8.9) Loose, Brown silty sand, some gravel - moist
				10		(8.9)-10') - Loose, tan, WG F-C sand, little F-C subrounded gravel, wet
	~~3/5~~ 5/3			12	SW	(12-15) Loose, tan, WG F-C sand, little F-C subrounded gravel, wet
	5/3			15	SW	(18-20) Loose, tan, WG F-C sand, little F-C subrounded gravel, wet
	5/2.6			20	SW	(22.4-25) Loose, tan, WG F-C sand, little F-C subrounded gravel, wet
	5/3.1			25	SW	(26.2 - 29.3) Loose, tan, WG F-C sand, little F-C subrounded gravel, wet
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: HM
Drilling Contractor: LAWES
Date: 5/14/24
Driller: Kevin McCarthy

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Location:	Stop & Shop Back Lot
Soil Boring Number:	ISB-B5
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro-core
Sheet	2 of

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Drilling	Start	Finish
DATE:	5/14	5/14
TIME:		

Water Level:
Time:
Date:

Surface Conditions: Grass
Weather: Sunny
Temperature: 60 °F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SW	(31.1 - 34.7) Loose, tan WG F-C sand, little F-C
	5/3.6			31		subrounded gravel, wet
				32		
				33		
				34		
				35	SW	(36.6 - 40) Loose, tan, WG F-C sand, little
	5/3.4			36		F-C subrounded gravel, wet.
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: HM
Drilling Contractor: LAWES
Date: 5/14/24
Driller: Kevin McCourty

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Behind Captree Plaza
Soil Boring Number:	ISB-B8
Sheet	1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:
Time:
Date:

Drilling — Start: DATE: 5/24 TIME: 1123 — Finish: DATE: 5/24 TIME:

Surface Conditions: grassy, damp
Weather: Wind WNW 2mph
Temperature: 77°F, partly cloudy

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OH	0-5 - loose, dark brown, WG, F-C sand with some gravel, little organic matter, trace silt, moist (sandy organic soil with gravel)
	5/1.3			5	SW	5-8.9 - loose, light brown, WG F-C sand with some F-C subrounded gravel, trace silt, moist
				8		8.9-9 - loose, dark brown/black WG F-C sand, little WG F-C gravel subrounded, wet
				9	GW	9-10 - WG F-C subrounded gravel, with light gray, WG M-C sand, wet
						9.1-9.4 - color change to dark brown/black *
	5/3.5			10	SW	10-15 - loose, light brown, WG F-C sand, with some WG F-C subrounded gravel, wet
				13		13.2-15 - color change to tan
	5/3.3			15		15-20 - loose, tan, WG M-C sand, with some W-G F-C subrounded gravel, wet
	5/5			20	SW	20-23.6 - loose, tan, WG M-C sand, trace gravel, wet
				23	SW	23.6-25 - loose, dark orangey-tan, WG M-C sand with some WG F-C subrounded gravel, wet
	5/4.2			25	SW	25-29.2 - loose, tan, WG F-C sand, ~~some~~ little WG F-C subrounded gravel, wet

water @ approx 8.95 ft bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ____ in
Bottom of Monitoring Well: ____ ft bgs
Stick Up or Flush Mount: ____
Screen Interval: ____ To ____ ft bgs
Riser Interval: ____ To ____ ft bgs
Sand Pack Interval: ____ To ____ ft bgs
Bentonite Seal: ____ To ____ ft bgs
Grout Interval: ____ To ____ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ____ ft
Bottom of Tubing: ____ ft
Top of Sand Pack: ____ ft
Top of Bentonite Seal: ____ ft

N/A

Logged by: C. Derrick & L. Backman-Lowe
Drilling Contractor: LAWES
Date: 5/24/2024
Driller: Scott Pederson

* 9.6-10 - many large gravel pieces (0.5-1.5 in diameter)

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct Push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Behind Captree Plaza
Soil Boring Number:	15B-B8
Sheet	2 of 2

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/24	5/24
TIME:	1123	

Surface Conditions: grassy, damp
Weather: wind WNW 2mph
Temperature: 77°F, partly cloudy

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30		30-34.1 - loose, tan, WG F-C sand,
				31		little WG subrounded gravel, wet
	5/4.1			32		
				33		
				34		
				35		35-38.5 - loose, tan, WG F-C sand,
				36		little WG subrounded gravel, wet
				37		
	5/3.5			38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick & L. Backeman-Lowe
Drilling Contractor: LAWES
Date: 5/24/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Behind craptree plaza
Soil Boring Number:	1SB-B9
Sheet	1 of 2

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

~~Water Level:~~				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/24	5/24
TIME:	0725	0900

Surface Conditions: grass, damp
Weather: wind WNW 2mph
Temperature: 66°F, partly cloudy

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	SW	0-5 - loose, dark to medium brown WG F-C sand with some subrounded gravel, moist
				1		
				2		
				3		
				4		
	5/2.9			5	SW	5-7.4 - loose, tan, WG F-C sand with some WG F-C subrounded gravel, moist
				6		7.4-8.2 - loose, brown, WG F-C sand with some WG F-C gravel, moist (large gravel [1.5 in diameter] present
				7		
				8	OL	8.2-8.6 - dense, dark brown/black organic matter, moist
				9	GW	8.6-10 - ~~light grey~~ CD loose, WG, F-C subrounded gravel with light gray, ~~WG~~, ~~M~~-C sand, wet
	5/3.1			10	SW	10-15 - loose, light gray to tan, WG F-C sand with some WG F-C subrounded gravel, wet
				11		
				12		
				13		
				14		
	5/3.3			15		15-20 - loose, light gray to tan, WG F-C sand with some WG F-C subrounded gravel, wet
				16		
				17		
				18		18-20 - color change to tan/light brown
				19		
	5/3.2			20		20-25 - loose, light brown, WG, F-C sand with little WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/5			25		25-30 - loose, medium brown, WG F-M sand with little WG F-C subrounded gravel, wet
				26		
				27		
				28		
				29		29-30 - color change to light brown, change in sand grain size to F-C

water @ 8.55 CD ~~8.65~~ ft bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/24/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Behind Captree Plaza
Soil Boring Number:	ISB-B9
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/24	5/24
TIME:	0725	0900

Surface Conditions: grass, damp
Weather: wind WNW 2 mph
Temperature: 66°F, partly cloudy

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SW	30-35- loose, reddish-medium brown, WG F-C sand with trace gravel, wet
				31		
	5/4.5			32		32.4 35 color change to medium/light brown
				33		
				34		
				35		35-40- loose, medium brown, WG F-M sand, no gravel, wet
				36		
	5/4.5			37		
				38		
				39		
				40		End of boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/24/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Location:	Stop + Shop
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro Core
Soil Boring Number:	ISB-C1
Sheet 1 of 2	

Coordinates: Northing ______ Easting: ______ N/A
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/20	5/20
TIME:	1204	1325

Surface Conditions: Asphalt, lot, dry
Weather: 67° F, sun
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OL	0-1 loose, dark brown, silty sand, some gravel, little organic matter, moist
				1	SW	
				2		1-5 - loose, tan, WG F-C sand, little subrounded F-M gravel, moist
				3		
				4		
	5/3.5			5		5-10 - loose, tan, WG F-C sand, some WG FC subrounded gravel, wet @ 8.55 ft
				6		
				7		
				8		
				9		
	5/3			10		10-15 - loose, tan, WG F-M sand, wet
				11		
				12		
				13		13-14 WG subrounded gravel (70%)
				14		
	5/2.8			15		15-20 - loose, tan, WG F-M sand, wet, little WG F-C subrounded gravel
				16		
				17		
				18		
				19		
	5/2.2			20		20-25 loose, tan, WG F-C sand, little WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/3.1			25		25-30 - loose, tan, WG F-C sand, little WG F-C subrounded gravel, wet
				26		
				27		
				28		
				29		

water @ 8.55

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount:
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: CD
Drilling Contractor: LAWES
Date: 5/20/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	Client: NYSDEC	Location: Stop + Shop lot	
	Project: DZ115	Soil Boring Number: ISB-C1	
Drilling Method: DPT ~~Macro~~ Geoprobe		Sheet 2 of 2	
Sampling Method: Macro Core		Drilling	
		Start	Finish
		DATE: 5/20	DATE: 5/20
		TIME: 1204	TIME: 1325

Coordinates: Northing ______ Easting ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30	SW	30-35 - loose, tan, WG F-C sand, trace WG F-M subrounded gravel, wet
				31		
	5/2.2			32		
				33		
				34		
				35		35-40 - loose, tan, WG F-C sand, trace WG F-M subrounded gravel, wet
				36		
	5/3.6			37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: CD
Drilling Contractor: LAWES

Date: 5/20/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macro Core
Location:	Stop + Shop Plaza
Soil Boring Number:	ISB-C2
Sheet 1 of 2	

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling

Start	Finish
DATE: 5/20	DATE: 5/20
TIME: 0710	TIME: 0900

Surface Conditions: asphalt lot, dry
Weather: 55°F, sunny
Temperature:

water @ 7.8'

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	OL	0-0.5 - loose, dark brown, silty sand, some gravel, little organic matter, moist
				1		
				2	SW	0.5-1.5 - loose, tan, WG F-C sand, little subrounded F-M gravel, moist (construction sand)
				3		
				4	SW	1.5-5.0 - loose, tan, WG F-C sand, little, subrounded gravel, moist
	5/3.2			5	SW	5-10 - loose, tan, WG F-C sand, some WG F-C subrounded gravel wet
				6		
				7		
				8		
				9		
	5/3.1			10	SW	10-15 - loose, tan WG F-C sand, little WG F-C subrounded gravel, wet
				11		
				12		
				13		
				14		
	5/3			15	SW	15-20 - loose, tan, WG F-C sand, little WG F-C subrounded gravel, wet
				16		
				17		
				18		
				19		
	5/2.8			20	SW	20-25 - loose, tan, WG F-C sand, little WG F-C subrounded gravel, wet
				21		
				22		
				23		
				24		
	5/4			25		25-28.3 - loose, brown, WG F-C sand, little WG F-M subrounded gravel
				26		
				27		
				28		28.3-30 - loose, brown, WG F-C sand, some WG M-C subrounded gravel
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/20
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Drilling Method:	DPT - Geoprobe
Sampling Method:	Macrocore
Location:	Stop + Shop Lot
Soil Boring Number:	SB-C2
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Water Level:				
Time:				
Date:				

Drilling	
Start	Finish
DATE: 5/20	DATE: 5/20
TIME: 0710	TIME: 0900

Surface Conditions: asphalt lot, dry
Weather: 55°F, sunny
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
				30		30-35 - loose, tan, WG F-C sand, trace
				31		WG F-M subrounded gravel, wet
	5/2.9			32		
				33		
				34		
				35		35-40 - loose, tan, WG F-C sand, little
				36		WG F-M subrounded gravel, wet
				37		
	5/3.4			38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/20
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Location:	Ace Hardware Lot
Drilling Method:	Direct push (DPT) Geoprobe
Sampling Method:	Macrocore
Soil Boring Number:	ISB-C3
Sheet	1 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:	5/23	5/23
TIME:	0707	0845

Surface Conditions: asphalt, dry
Weather:
Temperature: 63°F, mostly cloudy

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0–4	OH	0-5 - Sandy organic soil with gravel, loose, dark brown, silty sand, some gravel, some organic matter, moist
	5/3.3			5–9	SM	5-10 - loose, black dark brown, silty sand, saturated at 7.15 ft bgs, some gravel, trace organic matter
	5/3.4			10–11		10-12.5 - loose, dark brown, silty sand, some gravel, wet
				12–14	SW	12.5-15 - loose, tan, WG F+C sand, some WG F-M subrounded gravel, wet
	5/3.2			15–19		15-20 - loose, tan, WG F-C sand, some WG F-M subrounded gravel, wet
	5/3.1			20–24		20-25 - loose, tan, WG F-C sand, some WG F-M subrounded gravel, wet.
	5/4.2			25–29		25-30 - loose, tan, WG F+C sand, some WG F-M subrounded gravel, wet

water @ 7.15 ft bgs

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/23/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	Direct push (DPT) Geoprobe
Sampling Method:	Macrocore
Location:	Ace Hardware Lot
Soil Boring Number:	ISB-C3
Sheet	2 of 2

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Drilling	Start	Finish
DATE:	5/23	5/23
TIME:	0707	0845

Water Level:
Time:
Date:

Surface Conditions: asphalt, dry
Weather: mostly cloudy
Temperature: 63 °F

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/3.8			30	SW	30-35- loose, tan, WG F-C sand, with little gravel, wet
				31		
				32		
				33		
				34		
	5/4			35		35-40- loose, tan, WG F-C sand, with trace gravel, wet
				36		
				37		
				38		
				39		
				40		End of soil boring.
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______ ft bgs
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______

Soil Vapor Point Installation Information

N/A

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: C. Derrick
Drilling Contractor: LAWES
Date: 5/23/2024
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Location:	school ball field
Soil Boring Number:	ISB-D1
Sheet	1 of 1
Drilling Method:	Geoprobe DPT
Sampling Method:	macro core
Coordinates:	Northing ____ Easting: ____
Surface Elevation:	
Casing Below Surface:	
Reference Elevation:	
Reference Description:	
Water Level:	4.25
Time:	1250
Date:	5/8/24
Drilling Start	DATE: 5/8 TIME: 1045
Drilling Finish	DATE: 5/8 TIME: 1240
Surface Conditions:	grassy ball field
Weather:	cloudy
Temperature:	63°F

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	GM	0-3.5 - loose, dark brown sandy silt, some F-C subangular gravel, trace organic matter, moist
				2	SW	3.5-5 - loose, brown, WG F-C sand, some F-C subrounded gravel, trace F-C brown silt; water @ 4.25' bgs
	5/2.9			5	SW	5-7.5 - loose greyish tan WG F-C sand, some F/C subrounded gravel, wet
				7	SW	7.5-8.2 - loose greyish brown WG F-C subrounded gravel, some WG F-C sand, wet
				9	SW	8.2-10 - loose greyish tan, WG F-C sand, little WG F-M sub. gravel, wet
	5/3.8			10	SW	10-13.3 - loose, ~~greyish~~ tan WG F-C sand, little F-M subrounded gravel, wet
				13	SP	13.3-14.4 - loose, brown PG F sand, trace F subround gravel, wet
				14	SW	14.4-15 - loose, brown, WG F-C sand, little F subround gravel, wet
	5/3.8			15	SW	15-20 - loose, dark brown WG F-C sand, little F-M subrounded gravel, trace brown F silt, wet
	5/4			20	SW	20-25 - loose, dark brown WG F-C sand, trace F-C subround. gravel, trace brown F silt, wet
	5/4.9			25	SP	25-28 - loose, dark brown PG F sand, trace brown silt, wet
				28	SW	28-28.6 - loose, dark brown WG F-M sand, little F sub. gravel, trace brown silt, wet
				29	SP	28.6-30 - loose, dark brown PG F sand, trace brown silt, trace F gravel, wet

Monitoring Well Construction Information

Monitoring Well Diameter: ____ in
Bottom of Monitoring Well: ____ ft bgs
Stick Up or Flush Mount: ____
Screen Interval: ____ To ____ ft bgs
Riser Interval: ____ To ____ ft bgs
Sand Pack Interval: ____ To ____ ft bgs
Bentonite Seal: ____ To ____ ft bgs
Grout Interval: ____ To ____ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ____ ft
Bottom of Tubing: ____ ft
Top of Sand Pack: ____ ft
Top of Bentonite Seal: ____ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/8/24
Driller: Scott Pederson

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SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	
Drilling Method:	
Sampling Method:	
Location:	
Soil Boring Number:	
Sheet	2 of

Coordinates: Northing ______ Easting ______
Surface Elevation: ______
Casing Below Surface: ______
Reference Elevation: ______
Reference Description: ______

Drilling	Start	Finish
DATE:		
TIME:		

Water Level: | Time: | Date:

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2.0			30	SP	30-33.5 - loose, ~~dark~~ greyish brown ~~PG F~~ sand,
				31		trace F ~~brown~~ silt, wet
				32		
				33	SP	33.5-35.0 - loose, reddish brown PG F S sand,
				34		wet
	5/3.5			35	SP	35-40 - loose, reddish tan PG F sand,
				36		wet
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

N/A

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/8/24
Driller: Scott Pederson

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	DZUS
Drilling Method:	DPT - Geoprobe
Sampling Method:	macro core
Location:	school ball field
Soil Boring Number:	ISB-02
Sheet	1 of

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:	3.5			
Time:	13:30			
Date:	5/7			

Drilling	Start	Finish
DATE:	5/7	5/7
TIME:	11:30	13:20

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/5			0	GM	0-3.5: loose, Dark Brown Sandy Silt, WG, Some F-M Gravel m.
				1	SM	3.5-5: Coarse Sand, loose, Some Brown Silt, Wet
				2		
				3		
				4		
	5/2.9			5	SW	5-6.8: loose, greyish tan WG sand, some WG F-M subrounded gravel, wet
				6		
				7	SW	6.8-9.3 - loose brown WG sand, some WG F-M subr. gravel wet
				8		
				9	SW	9.3-10 - loose, greyish tan WG sand, some WG F-M sub. gravel
	5/3			10	SW	10-14.3 - greyish tan WG F-M sand, little WG subrounded F-M gravel
				11		
				12	SW	
				13		14.3-14.6 - loose greyish tan WG M-C sand, some F-C sub. gravel
				14	SW	14.6-15.0 - loose greyish tan WG F-C sand, little gravel
	5/2			15	SW	15-20 - loose dark brown WG F-M sand, little WG F-M sub. gravel, trace ~~brow~~ dark brown F silt, wet
				16		
				17		
				18		
				19		
	5/4			20	SW	20-23 - loose, reddish brown WG F-M sand trace WG F-M subrounded gravel, wet
				21		
				22		
				23	SW	23-25 - loose, reddish brown WG F-M sand some WG F-M subrounded gravel, wet
				24		
	5/1.7			25	SW	25-30 - loose, brownish tan, WG F-C sand some WG F-M subrounded gravel, wet
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

N/A

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

Soil Vapor Point Installation Information

N/A

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/7/24
Driller: Scott Pederson

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	Client: NYSDEC	Location:
	Project:	Soil Boring Number:
Drilling Method:		Sheet 2 of
Sampling Method:		Drilling

Coordinates: Northing ________ Easting ________
Surface Elevation: ________
Casing Below Surface: ________
Reference Elevation: ________
Reference Description: ________

Water Level:				
Time:				
Date:				

Start	Finish
DATE:	DATE:
TIME:	TIME:

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	5/2.8			30	SW	30-35 – loose, greyish tan, WG F-C sand, little F-M subrounded gravel, wet
				31		
				32		
				33		
				34		
	5/3.1			35	SW	35-40' – loose, greyish tan. WG F-C sand, little ~~Ba~~ F-M subrounded gravel, wet
				36		
				37		
				38		
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/7/24
Driller: Scott Pederson

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.	
Client:	NYSDEC
Project:	Dzus
Drilling Method:	DPT - geoprobe
Sampling Method:	macro core
Location:	~~ISB-D3~~
Soil Boring Number:	ISB-D3
Sheet	1 of 1

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:	3.5			
Time:	0930			
Date:	5/7/24			

Drilling	Start	Finish
DATE:	5/7/24	5/7/24
TIME:	07.50	0920

Surface Conditions: grass ball field
Weather:
Temperature: 61°F, sunny

water ~3.5' bgs

Blow Counts (140-lb)	Ft. Driven/ Ft. Recov.	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/5			0	GM	0-3.5': dark brown sandy silt, loose, moist, ~~some interbedded gravel~~ (topsoil)
				1–3	GM	3.5'-5: coarse sand loose, some dark brown silt coarse gravel, wet
				3–4		collect sample @ ISB-D3-0-3.5 w/ MS/MSD (0810)
	5/3			5	SW	5-8.3 - loose, greyish tan well-graded F-C sand, little well graded F-C subround gravel, wet
				7	SW	8.3-9.0 - loose, tan well-graded F-C sand, little well-graded F-C subround gravel, wet
				8	SW	9.0-9.3 - loose, reddish tan well-graded F-C sand, little well-graded F-C subround gravel, wet
				9	SW	9.3-10 - loose, greyish tan WG F-C sand, little WG F-C gravel
	5/3			10	SW	10-13 loose, greyish tan WG F-C sand, little WG F-C gravel
				12	SW	13-13.8 loose, greyish brown WG F-C sand, little WG F-C gravel 13.8-13.8 loose, reddish brown WG F-C sand, little WG F-C gravel
				14	SW	13.8-15 - loose greyish tan WG F-C sand, little WG F-C gravel, wet
	5/2.2			15–16	SW	15-20 - loose greyish tan, WG F-C sand some WG F-C subround gravel, wet
	5/2.2			20	SW	20-22.8 - loose tan, WG F-C sand, little WG F-M gravel
				23	SP	22.8-23.7 loose tan PG F sand, trace PG F gravel
				24	SW	23.7-25 - loose tan WG M-C sand, some WG F-C gravel
	5/3			25–26	SW	25-30 - loose tan WG ~~F~~-C sand, little WG F-M gravel, wet
				27–29		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______ ft bgs
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: Lincoln Beckman-Lowe
Drilling Contractor: LAWES
Date: 5/7/24
Driller: Scott Pederson

EA Engineering, P.C. and Its Affiliate
EA Science and Technology

SOIL BORING LOG

Job. No.:	
Client:	NYSDEC
Project:	
Location:	
Drilling Method:	
Sampling Method:	
Soil Boring Number:	
Sheet 2 of	

Coordinates: Northing ______ Easting: ______
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Water Level:				
Time:				
Date:				

Drilling	Start	Finish
DATE:		
TIME:		

Surface Conditions:
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Record	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Description
	5/3.7			30	SW	30-35 - loose, ~~wet~~ tan WG F-C sand,
				31		some WG F-M subrounded gravel, wet
				32		
				33		
				34		
	5/3.5			35	SW	35-38 - loose, tan WG F-C sand
				36		LBL ~~some WG F-C subrounded gravel~~, wet
				37	SW	38-40 - loose, tan WG F-C sand,
				38		little F-M subrounded gravel
				39		
				40		
				41		
				42		
				43		
				44		
				45		
				46		
				47		
				48		
				49		
				50		
				51		
				52		
				53		
				54		
				55		
				56		
				57		
				58		
				59		

Monitoring Well Construction Information

Monitoring Well Diameter: ______ in
Bottom of Monitoring Well: ______ ft bgs
Stick Up or Flush Mount: ______
Screen Interval: ______ To ______ ft bgs
Riser Interval: ______ To ______ ft bgs
Sand Pack Interval: ______ To ______ ft bgs
Bentonite Seal: ______ To ______ ft bgs
Grout Interval: ______ To ______ ft bgs

N/A

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: ______ ft
Bottom of Tubing: ______ ft
Top of Sand Pack: ______ ft
Top of Bentonite Seal: ______ ft

N/A

Logged by: LBL
Drilling Contractor: LAWES
Date: 5/7/24
Driller: Scott Pederson

FIELD CALIBRATION FORM

Horiba U-52

pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 05 / 06 / 2024
TIME: 0655
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.45	3.97

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.78	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	3.3	0.0

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/7/24
TIME: 0625
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.98	4.00

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.58	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.1

COMMENTS

None

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 05/08/2024
TIME: 0630
METER ID: 71055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.47	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.35	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	31.6	0.8

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/9/24
TIME: 0620
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.12	3.96

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.57	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	29.7	1.2

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/10/24
TIME: 0635
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.16	3.98

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.73	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	16 NTU	0.0 NTU

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/14/24
TIME: 0700
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.34	3.98

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.61	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.4

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/15/24
TIME: 0700
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.82	4.01

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.71	4.51

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	28	0.4

COMMENTS

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/16/24
TIME: 0700
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.74	4.01

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.87	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

None

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/17/24
TIME: 0650
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.13	3.98

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.99	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	17.5	0.1

COMMENTS

None

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/20/24
TIME: 0640
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.80	3.97

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.25	4.53

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

None.

SIGNATURE

FIELD CALIBRATION FORM

Horiba U-52

pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/21/2024
TIME: 0640
METER ID: ~~0640~~ 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.88	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.29	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	39.0	0.2

COMMENTS

None.

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/22/2024
TIME: 0650
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.28	3.95

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.05	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	17.9	7.7

COMMENTS

None.

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/23/2024
TIME: 0643
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.74	3.94

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.12	4.47

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	32.1	7.1

COMMENTS

None.

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 5/24/2024
TIME: 0648
METER ID: 21055

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.03	3.99

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.04	4.97

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

None.

SIGNATURE

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 06/04/2024
TIME: 0710
METER ID: 24305

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	5.80	4.0

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.20	4.48

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

SIGNATURE

Haley Young

FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION
DATE: 6/5/2024
TIME: 0649
METER ID: 24305

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.49	4.08

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.36	4.52

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	18.6	0.0

COMMENTS

None.

SIGNATURE

INCH

TACOMA, WA, USA
— EST. 1916 —
Rite in the Rain®
= DEFYING MOTHER NATURE =

Name Dzus Fastener (152033)
16025-15-00-CP

Address 425 Union Blvd

Phone (585) 322-2140
(716) 364-7282

Project Hilary Williams (PM)
Lincon Backman-Lowe (Field Lead)

MADE USA RITE GREEN Archival paper

RiteintheRain.com

CONTENTS

 Dzus Fastener (152033) 5/6/24

Weather: 52°F, cloudy; drizzle
Personnel: LBL, HW, MB
Objective: GW PDI
0650 - EA + LAWES onsite
7000 - tailgate health + safety meeting discuss SOW
0705 - mob to OU1 to set up on MW-9-SB
0730 - LAWES begins hand-clearing MW-9-SB to 5' bgs
0800 - advance MW-9-SB w/ geoprobe
0840 - collect soil sample MW-9-SB-5-10 for TAL Metals, TOC, grain size
0850 - collect soil sample MW-9-SB-19-20 for TAL Metals, TOC, grain size
0945 - drill to 40' bgs, rig turned off
0950 - begin backfill of MW-9-SB
1005 - backfill complete borehole patched w/ cold-patch
1020 - mobilize to laydown area behind Stop+Shop to stage drum
10:40 - LAWES offsite for day
10:45 - EA marks ISB locations on transects A, B, and C
11:30 - EA offsite
[signature] 5/6/24

Dzus Fastener (152033) 5/7/24

Weather: 56°F, cloudy
Personnel: LBL, HW, MB
Objective: GW PDI
0620 - EA onsite
0625 - calibrate Horiba U-52
0625 - LAWES onsite, H+S meeting
0700 - begin tracking rig w/ mats out to ISB-D3 location
0750 - LAWES begins hand-clearing ISB-D3 location
0800 - LAWES begins advancing ISB-D3 w/ geoprobe
0810 - collect soil sample ISB-D3-0-3.5 for TAL Metals, TOC, grain size
0830 - collect soil sample ISB-D3-14-15 for TAL Metals, TOC, grain size
0920 - bore hole advanced to 40' LAWES backfills hole w/ site mats
0935 - step out 5' from borehole, begin advancing SP16 rods to 45' bgs
1000 - begin purging for sample ISB-D3-GW-41-45
1011 - collect GW sample ISB-D3-GW-41-45 for TAL Metals (tot. + dis.)
1025 - rods + tubing pulled up 10' to 35' bgs

1030 - begin purging for sample
ISB-D3-31-35
1035 - collect GW sample ISB-D3-GW-31-35
for TAL Metals (tot. + dis.)
1038 - rods + tubing pulled up to
25' bgs
1045 - begin purging for sample
ISB-D3-21-25
1055 - collect GW sample ISB-D3-GW-21-25
for TAL Metals (tot. + dis.)
1100 - rods + tubing pulled up to
15' bgs
1105 - begin purging for sample
ISB-D3-11-15
1113 - collect GW sample ISB-D3-GW-11-15
for TAL Metals (tot. + diss.)
1115 - break down rig, move to
ISB-D2 location
1130 - LAWES begins hand-clearing ISB-D2
location
1145 - LAWES begins advancing ISB-D2 w/
geoprobe
1320 - boring ISB-D2 advanced to depth
1325 - LAWES breaks down rig + moves
to corner of ball field
1355 - demob from middle school

1415 - meet @ 'laydown' area
behind Stop + Shop to
transfer IDW to drum,
discuss viability of ISB-B
transect being moved to
north side of middle school
fence.
1430 - EA + LAWES offsite

5/7/24

6 Dzus Fastener (152033) 5/8/24

Weather: 57°F, cloudy
Personnel: LBL, MB
Objective: GW PDI

0615 - EA onsite
0620 - LAWES onsite, tailgate H&S mtg
0630 - calibrate Horiba U-52
0635 - mobilize equipment to 1SB-D2 location
0655 - mobilize geoprobe rig to 1SB-D2 location
0710 - decontaminate SP16 screen for EQB-1, for 5/7/24
0720 - begin advancing SP-16 rods to 45' bgs, collect EQB-1
0745 - begin purging for sample 1SB-D2-GW-41-45
0810 - collect sample 1SB-D2-GW-41-45 for TAL Metals (tot.+dis.) split w/ ms/msd
0820 - rods + tubing pulled up to 35' bgs
0825 - begin purging for sample 1SB-D2-GW-31-35
0827 - purge stopped + rig turned off due to thunder, will resume 30 min after last strike

Dzus Fastener (152033) 5/8/24

0920 - resume purging for sample 1SB-D2-GW-31-35
0930 - collect GW sample 1SB-D2-31-35 for TAL Metals (tot.+dis.)
0935 - pull up rods + tubing to 25' bgs
0940 - begin purging for sample 1SB-D2-GW-21-25
0955 - collect sample 1SB-D2-21-25 for TAL Metals (tot.+dis.)
1000 - pull up rods + tubing to 15' bgs
1010 - begin purging for sample 1SB-D2-GW-11-15
1025 - collect GW sample 1SB-D2-11-15 for TAL Metals (tot.+dis.)
1030 - break down geoprobe rig, mobilize to 1SB-D1 location
1045 - LAWES begins hand-clearing 1SB-D1 boring local
1055 - LAWES begins advancing 1SB-D1 boring w/ geoprobe
1245 - boring 1SB-D1 drilled to depth, step out 5' and begin pushing SP16 sampler to 45' bgs

1312 - begin purging for sample ISB-D1-41-45

1330 - collect GW sample ISB-D1-41-45 for TAL Metals (tot. + dis.)

1333 - pull up rods + tubing to 35' bgs

1335 - begin purging for sample ISB-D1-31-35

1340 - collect GW sample ISB-D1-31-35 for TAL Metals (tot. + dis.)

1342 - pull up rods + tubing to 25' bgs

1346 - begin purging for sample ISB-D1-GW-21-25

1355 - collect GW sample ISB-D1-GW-21-25 for TAL Metals (tot. + dis.)

1358 - pull up rods + tubing to 15' bgs
- begin purging for sample ISB-D1-GW-11-15

1415 - collect GW sample ISB-D1-GW-11-15 for TAL Metals (tot. + dis.)

1420 - break down set up, rig, mob rig to corner of ball field

1445 - mob to 'lay down' area to transfer IDW to Drum.

1500 - EA + LAWES offsite

5/8/24

Weather: 57°F, partly cloudy
Personnel: LBL, MB
Objective: GW PDI

0615 - EA onsite

0620 - calibrate Horiba U-52

0630 - LAWES onsite, tailgate H+S meeting

0645 - mobilize equipment + supplies to ISB-B3 location

0710 - mobilize geoprobe rig to ISB-B3 location

0715 - LAWES begins hand-clearing ISB-B3 borehole

0730 - decontaminate SP16 screen + collect EQB-2

0745 - LAWES begins advancing ISB-B3 borehole w/ geoprobe

0935 - boring @ ISB-B3 advanced to 40' bgs

0940 - drill rig stepped out 5' to begin advancing SP16

0950 - SP-16 screen advanced to 45' bgs

1005 - begin purging for sample ISB-B3-GW-41-45

1020 - collect GW sample ISB-B3-GW-41-45 for TAL Metals (tot. + dis.)

1027 - pull up rods + tubing to 35' bgs
1032 - begin purging for sample
ISB-B3-~~GW~~-3~~5~~-35
1040 - collect GW sample ISB-B3-GW-31-35
for TAL Metals (tot. + dis.)
1050 - pull up rods + tubing to 25' bgs
1100 - begin purging for sample
ISB-B3-GW-21-25
1110 - collect GW sample ISB-B3-GW-21-25
for TAL Metals (tot. + dis.)
1115 - pull up rods + tubing to 15' bgs
1118 - begin purging for sample
ISB-B3-GW-11-15
1133 - collect GW sample ISB-B3-GW-11-15
for TAL Metals (tot. + dis.) split w/ FD-01
1145 - pull up rods + break down rig,
mobilize to ISB-B2 location
1200 - begin hand-clearing ISB-B2
boring to 5' bgs
1215 - LAWES begins advancing ISB-B2
boring w/ geoprobe rig.
1335 - ISB-B2 boring advanced to
40' bgs
1350 - collect EQB-3
1352 - break down drill rig +
Move to corner of ball field

1415 - mobilize to 'laydown' area
to transfer IDW to drum
1430 - EA + LAWES offsite

[signature]
5/9/24

Weather: 49°F, rain
Personnel: LBL, MB
Objective: GW PDI

0620 - EA onsite
0630 - LAWES onsite, tailgate H+S meeting
0640 - mobilize equipment + supplies to ISB-B2 location
0715 - mobilize geoprobe rig to ISB-B2 location
0735 - begin advancing SP16 to 45' bgs
0745 - SP16 set @ 45' bgs
0755 - begin purging for sample ISB-B2-GW-41-45
0810 - collect GW sample ISB-B2-GW-41-45 for TAL Metals (tot. + dis.)
0815 - pull up rods + tubing to 35' bgs
0818 - begin purging for sample ISB-B2-GW-31-35
0825 - collect GW sample ISB-B2-GW-31-35 for TAL Metals (tot. + dis.)
0830 - pull up rods + tubing to 25' bgs
0835 - begin purging for sample ISB-B2-GW-21-25
0840 - collect GW sample ISB-B2-GW-21-25 for TAL Metals (tot. + dis.)
0842 - pull up rods + tubing to ~~2~~ 15' bgs

0850 - begin purging for sample ISB-B2-GW-11-15
0900 - collect GW sample ISB-B2-11-15 for TAL Metals (tot. + dis.)
0905 - break down geoprobe rig + mobilize to ISB-B1 location
0915 - LAWES begins hand-clearing ISB-B1 soil boring
0932 - LAWES begins advancing soil boring ISB-B1 w/ geoprobe
1105 - ISB-B1 soil boring advanced to 40' bgs, collect EQB-4
1120 - begin advancing SP16 to 45' bgs
1135 - begin purging for sample ISB-B1-GW-41-45
1145 - collect GW sample ISB-B1-GW-41-45 for TAL Metals (tot. + dis.)
1147 - pull up rods + tubing to 35' bgs
1150 - begin purging for sample ISB-B1-GW-31-35
1200 - collect GW sample ISB-B1-GW-31-35 for TAL Metals (tot. + dis.)
1202 - pull up rods + tubing to 25' bgs
1205 - begin purging for sample ISB-B1-GW-21-25

1215 - collect GW sample ISB-B1-GW-21-25 for TAL Metals (tot. + dis.)
1217 - pull up rods + tubing to 15' bgs
1220 - begin purging for sample ISB-B1-GW-11-15
1230 - collect GW sample ISB-B1-GW-11-15 for TAL Metals (tot. + dis.)
1232 - pull up rods, break down equipment, mobilize rig to truck
1335 - mobilize to 'laydown' area to transfer IDW to drum
14:00 - EA + LAWES offsite

5/10/24

Weather: 55°F, sunny
Personnel: LBL, HM
Objective: GW PDI

0650 - EA + LAWES onsite, tailgate H+S meeting
0700 - calibrate Horiba U-52. LAWES mobilizes equipment to ISB-B4 location
0720 - LAWES begins hand-clearing ISB-B4
0830 - LAWES begins advancing ISB-B4 boring w/ Geoprobe rig
0915 - rig off for maintenance
0918 - rig on, continue drilling
0955 - ISB-B4 boring advanced to 48'
1005 - rig stepped out 5', begin advancing SP16 sampler to 45' bgs
1030 - begin purging for sample ISB-B4-GW-41-45
1040 - collect GW sample ISB-B4-GW-41-45 for TAL Metals (tot. + dis.)
1045 - pull up rods + tubing to 35' bgs
1055 - begin purging for sample ~~ISB~~ ISB-B4-GW-31-35
1105 - collect GW sample ISB-B4-GW-31-35 for TAL Metals (tot. + dis.)

1108 - pull up rods + tubing to 25' bgs

1112 - begin purging for sample ISB-B4-GW-21-25, J. Guy onsite

1120 - collect GW sample ISB-B4-GW-21-25 for TAL Metals (tot + dis)

1125 - pull up rods + tubing to 15' bgs

1130 - begin purging for sample ISB-B4-GW-11-15

1145 - collect GW sample ISB-B4-GW-11-15 for TAL Metals (tot + dis.)

1150 - LAWES backfills ISB-B4, breaks down rig + mobilizes to ISB-B5 location

1205 - EA begins thermal drone survey, LAWES begins hand-clearing ISB-B5 location

1225 - LAWES begins advancing SB-B5 boring w/ Geoprobe

1250 - collect soil sample ISB-B5-SO-7-8 for TAL Metals, TOC + grain size

1255 - collect soil sample ISB-B5-SO-17-18 for TAL Metals, TOC, + grain size

1325 - ISB-B5 boring driven to 40' bgs

- breakdown Geoprobe rig, Mobilize to ~~ISB-B~~ LBB ISB-A location

1412 - LAWES begins cutting through asphalt @ ISB-A4 location

1415 - LAWES begins hand-clearing ISB-A4 boring location

1425 - LAWES begins advancing ISB-A4 soil boring w/ Geoprobe

1530 - boring ISB-A4 advanced to 40'

LBB ~~step Geoprobe rig out 5', begin advancing SPT6~~

1545 - LAWES backfills ISB-A4 soil boring hole, patches asphalt w/ cold patch

1555 - LAWES packs up equipment, transfers waste to drums.

1630 - EA + LAWES offsite.

5/14/24

Weather: light rain, 60°F
Personnel: LBL HM
Objective: GW PDI

0630 - EA onsite
0635 - clear out + cone off sample locations
0640 - calibrate Horiba U-52
0700 - LAWES onsite, begin unloading equipment, mob Geoprobe to ISB-A4 location
0735 - begin advancing SP16 sampler to 45' bgs
0810 - begin purging for sample ISB-A4-GW-41-45
0820 - ~~0820~~ collect GW sample ISB-A4-GW-41-45 for TAL Metals (tot. + dis.)
0825 - pull up rods + tubing to 35' bgs
0831 - begin purging for sample
~~0835~~ ISB-A4-GW-31-35
0840 - collect GW sample ISB-A4-GW-31-35 for TAL Metals (tot. + dis.)
0842 - pull up rods + tubing to 25' bgs
0845 - begin purging for sample ISB-A4-GW-21-25
0855 - collect GW sample ISB-A4-GW-21-25 for TAL Metals (tot + dis.)

0900 - pull up rods + tubing to 15' bgs
0910 - begin purging for sample
0925 ISB-A4-GW-11-15
~~0927~~ - collect GW sample ISB-A4-GW-11-15 for TAL Metals (tot. + dis.)
0930 - pack equipment, mobilize Geoprobe to MW-13A
1005 - begin hand-clearing hole near MW-13A, encounter PVC ~3' deep. backfill hole + step out to new location
1020 - begin hand-clearing new hole near MW-13A
1030 - National grid onsite to help w/ utility clearance, LAWES begins advancing SB @ MW-13A-SB w/ Geoprobe rig
1045 - EA collects soil sample MW-13A-SB-0-5 for TAL Metals, TOC + grain size
1055 - EA collects soil sample MW-13A-SB-14-15 for TAL Metals, TOC + grain size
1145 - MW-13A-SB advanced to 40' bgs, pack equipment + mobilize to ISB-A5 location

1230 - LAWES begins hand-clearing
1SB-A5 boring
1240 - LAWES begins advancing 1SB-A5
boring w/ Geoprobe
1300 - EA collects soil sample
1SB-A5-SO-8-10 for
TAL Metals, TOC + grain size
1310 - EA collects soil sample
1SB-A5-SO-19-20 for
TAL Metals, TOC, + grain size
1350 - 1SB-A5 soil boring advanced to
40' bgs, LAWES backfills
borehole
1400 - LAWES begins ~~advancing~~ advancing SP16
1423 Sampler to 45' bgs
~~1423~~ begin purging for sample
1455 1SB-A5-GW-41-45
~~16~~ - collect sample 1SB-A5-GW-41-45
1455 for TAL Metals (tot.+dis.)
~~56~~ - pull up rods + tubing to 35' bgs
1500 - begin purging for sample
1SB-A5-GW-31-35
1510 - collect sample 1SB-A5-GW-31-35
for TAL Metals (tot. +dis.)
1510 - pull up rods + tubing to 25' bgs

1515 - begin purging for sample
1SB-A5-GW-21-25
1525 - collect sample 1SB-A5-GW-21-25
for TAL Metals (tot.+dis.), sulfate,
nitrite/nitrate, and TOC, split
sample w/ 1SB-GW-FD-02-05152024
1537 - pull up rods + tubing to 15' bgs
1540 - begin purging for sample
1SB-A5-GW-11-15
1550 - collect sample 1SB-A5-GW-11-15
for TAL Metals (tot.+dis.)
~~collect EQB-6~~ LQL
1555 - pull up SP16, pack equipment,
decon SP16 for blank samples
1625 - collect EQB-6
1635 - transfer IDW to drums
1640 - EA + LAWES offsite

5/15/24

Weather: Overcast, 60°F
Personnel: LBL, HM
Objective: GWPDI

0700 - EA + LAWES onsite
0710 - mobilize to ISB-B5 location
0730 - advance SP16 to 45' bgs
0743 - begin purging for sample ISB-B5-GW-41-45
0800 - collect sample ISB-B5-GW-41-45 for TAL Metals (tot + dis)
0800 - pull up rods + tubing to 35' bgs
0805 - begin purging for sample ISB-B5-GW-31-35
0815 - collect sample ISB-B5-GW-31-35 for TAL Metals (tot. + dis.) and MNA, split sample w/ MS/MSD
0830 - pull up rods + tubing to 25' bgs
0835 - begin purging for sample ISB-B5-GW-21-25
0845 - collect sample ISB-B5-GW-21-25 for TAL metals (tot. + dis.)
0850 - Pull up rods + Tubing to 15' bgs
0857 - begin purging for sample ISB-B5-GW-11-15
0910 - collect sample ISB-B5-GW-11-15 for TAL metals (total + dis.)

0912 - Pack equipment, mobilize Geoprobe to ISB-A3
0935 - LAWES begins hand-clearing ISB-A3 boring
0950 - LAWES begins advancing ISB-A3 boring w/ Geoprobe
1100 - ISB-A3 boring advanced to 40' bgs, LAWES Backfills borehole, Packs equipment and mobilize Geoprobe to ISB-A1
1140 - LAWES begins hand-clearing ISB-A1 boring
1145 - LAWES begins advancing ISB-A1 boring w/ Geoprobe
1210 - Rig off for maintenance
1215 - Rig on, continue Drilling
1225 - Rig off for maintenance
1245 - Rig on, continue Drilling
1405 - ISB-A1 soil boring advanced to 40' bgs, LAWES backfills borehole
1410 - Pack equipment, transfer IDW to Drums
1430 - EA + LAWES offsite

5/16/24

Weather: 56°F, cloudy
Personnel: LBL, HM
Objective: GW PDI

0640 - EA + LAWES onsite, tailgate H+S meeting
0650 - place cones on sample locations, calibrate Horiba U-52
0700 - mob Geoprobe rig to ISB-A3 location
0720 - begin advancing SP16 sampler to 45' bgs
0740 - begin purging for sample ISB-A3-GW-41-45
0755 - collect sample ISB-A3-41-45 for TAL Metals (tot.+dis.)
0800 - pull up rods + tubing to 35' bgs
0805 - begin purging for sample ISB-A3-GW-31-35
0810 - collect sample ISB-A3-GW-31-35 for TAL Metals (tot.+dis.)
0815 - pull up rods + tubing to ~~3~~ 25' bgs
0820 - begin purging for sample ISB-A3-GW-21-25
0830 - collect sample ISB-A3-21-25 for TAL Metals (tot. + dis.)
0833 - pull up rods + tubing to 15' bgs
0835 - begin purging for sample ISB-A3-GW-11-15
0845 - collect GW sample ISB-A3-GW-11-15 for TAL Metals (tot. + dis.)

0850 - pull up remaining rods, pack equipment, mob to ISB-A2 location
0917 - LAWES begins hand-clearing ISB-A2 soil boring
0935 - LAWES begins advancing ISB-A2 soil boring w/ Geoprobe
1040 - boring ISB-A2 advanced to 40' bgs, pull up rods, backfill hole
1055 - begin advancing ~~SB~~ SP16 sampler to 45' bgs
1110 - begin purging for sample ISB-A2-GW-41-45
1125 - collect sample ISB-A2-GW-41-45 for TAL Metals (tot.+dis.) ✓
1130 - pull up rods + tubing to 35' bgs
1132 - begin purging for sample ISB-A2-GW-31-35
1140 - collect sample ISB-A2-GW-31-35
1143 - pull up rods + tubing to 25' bgs
1145 - begin purging for sample ISB-A2-GW-21-25
1155 - collect sample ISB-A2-GW-21-25 for TAL Metals (tot. + dis.)
1158 - pull up rods + tubing to 15' bgs
1203 - begin purging for sample ISB-A2-GW-11-15

 Dzus Fastener (152033) 5/17/24

1210 - collect sample ISB-~~B~~A2-GW-11-15
* for TAL Metals (tot. + dis.)
1215 - pull up remaining rods, pack equipment, mobilize to ISB-A1 location
1230 - begin advancing SP16 to 45' bgs
1250 - begin purging for sample ISB-A1-GW-41-45
1305 - collect sample ISB-~~A1~~-GW-41-45 for TAL metals (tot. + dis.)
1308 - pull up rods + tubing to 35' bgs
1311 - begin purging for sample ISB-A1-GW-31-35
1320 - collect sample ISB-A1-GW-31-35 for TAL Metals (tot. + dis.)
1323 - pull up rods + tubing to 25' bgs
1328 - begin purging for sample ISB-A1-GW-21-25
1340 - collect sample ISB-A1-GW-21-25 for TAL Metals (tot. + dis.)
1342 - pull up rods + tubing to 15' bgs
1345 - begin purging for sample ISB-A1-GW-11-15
1355 - collect sample ISB-A1-GW-11-15 for TAL Metals (tot. + dis.)
1357 - pull up remaining rods, decontaminate SP16

Dzus Fastener (152033) 5/17/24

1410 - collect EQB-8
1415 - pack equipment, transfer IDW to drum
1430 - EA + LAWES offsite

5/17/24

 Dzus Fastener (150233) 5/20/24

Weather: 55°F, sun, wind: 5mph NE
Personnel: LBL, CD
Objective: GW PDI

0630 - EA onsite, calibrate Horiba U-52
0640 - LAWES onsite, tailgate H+S meeting
0645 - mobilize equipment to ISB-C2 location
0710 - begin hand-clearing ISB-C2 boring to 5'
0735 - LAWES begins advancing ISB-C2 boring w/ Geoprobe
0900 - ISB-C2 boring advanced to 40' bgs, backfill hole
0915 - begin advancing SP16 sampler to 45'
0945 - begin purging for sample ISB-C2-GW-41-45
0955 - collect sample ISB-C2-GW-41-45 for TAL Metals (tot. + dis.)
1005 - pull up rods + tubing to 35' bgs
1008 - begin purging for sample ISB-C2-GW-31-35
1020 - collect sample ISB-C2-GW-31-35 for TAL Metals (tot. + dis.)
1033 - pull up rods + tubing to 25' bgs

Dzus Fastener (152033) 5/20/24

1038 - begin purging for sample ISB-C2-GW-21-25
1045 - collect sample ISB-C2-GW-21-25 for TAL Metals (tot. + dis.), split w/ ISB-GW-FD-03-05202024
1052 - pull up rods + tubing to 15' bgs
1058 - begin purging for sample ISB-C2-GW-11-15
1105 - collect sample ISB-C2-GW-11-15 for TAL Metals (tot. + dis.)
1111 - pull up remaining rods, backfill hole + cold patch asphalt
1130 - pack equipment + mob to ISB-C1 location
1200 - LAWES begins hand-clearing ISB-C1 location
1220 - LAWES begins advancing ISB-C1 soil boring w/ Geoprobe
1320 - ISB-C1 ~~soil~~ boring advanced to 40' bgs, break for water + shade
1400 - step out 5' and begin advancing SP16 sampler to 45' bgs
1415 - begin purging for sample ISB-C1-GW-41-45
1430 - collect sample ISB-C1-GW-41-45 for TAL Metals (tot. + dis.), split w/ MS/MSD

1440 - pull up rods + tubing to 35' bgs
1445 - begin purging for sample ISB-C1-GW-31-35
1450 - collect sample ISB-C1-GW-31-35 for TAL Metals (tot + dis.)
1455 - pull up rods + tubing to 25' bgs
1500 - begin purging for sample ISB-C1-GW-21-25
1510 - collect sample ISB-C1-GW-21-25 for TAL Metals (tot. + dis.)
1513 - pull up rods + tubing to 15' bgs
1517 - begin purging for sample ISB-C1-GW-11-15
1525 - collect sample ISB-C1-GW-11-15 for TAL Metals (tot. + dis.)
1530 - pull up remaining rods, pack equipment, backfill holes
1545 - decontaminate SP16 sampler, collect EQB-9
1610 - transfer IDW to drums
1630 - EA + LAWES offsite

5/20/24

Weather: 55° F, cloudy
Personnel: LBL, CD
Objective: GW PDI

0630 - EA onsite, calibrate Horiba U-52
0640 - LAWES onsite, tailgate H+S meet
0645 - mob to ISB-A6 location, set up on hole
0715 - LAWES begins hand-clearing ISB-A6 soil boring
0730 - LAWES begins advancing ISB-A6 soil boring w/ Geoprobe
0835 - soil boring advanced to 40' bgs, pull up rods
0935 - step out 5', begin advancing SP16 sampler
0955 - begin purging for sample ISB-A6-GW-41-45
1010 - collect sample ISB-A6-GW-41-45
1013 - pull up rods + tubing to 35' bgs
1019 - begin purging for sample ISB-A6-GW-31-35
1028 - collect sample ISB-A6-GW-31-35
1031 - pull up rods + tubing to 25' bgs
1035 - begin purging for sample ISB-A6-GW-21-25
1040 - collect sample ISB-A6-GW-~~21-25~~

1050 - pull up rods + tubing to 15' bgs
1054 - begin purging for sample
ISB-A6-GW-11-15
1100 - collect sample ISB-A6-GW-11-15
1105 - pull up remaining rods, backfill holes, pack equipment, mob to ISB-A7 location
1142 - LAWES begins hand-clearing ISB-A7 soil boring
1155 - LAWES begins advancing ISB-A7 boring w/ Geoprobe
1305 - ISB-A7 boring advanced to 40'
1310 - break for lunch
1340 - begin advancing SP16 sampler
1420 - begin ~~advancing~~ purging for sample ISB-A7-GW-41-45
1430 - collect sample ISB-A7-GW-41-45
1435 - pull up rods + tubing to 35' bgs
1440 - begin purging for sample ISB-A7-GW-31-35
1450 - collect sample ISB-A7-GW-31-35
1452 - pull up rods + tubing to 25' bgs
1455 - begin purging for sample ISB-A7-GW-21-25
1500 - collect sample ISB-A7-GW-21-25

1505 - pull up tubing to 15' bgs
1508 - begin purging for sample ISB-A7-GW-11-15
1515 - collect sample ISB-A7-GW-11-15
1520 - pull up remaining rods
1530 - decontaminate SP16, collect EQB-10
1530 - pack equipment, backfill holes, transfer IDW to drums
1545 - EA + LAWES offsite

5/21/24

Weather: 61° F, sunny
Personnel: LBL, CD
Objective: GW PDI
0630 - EA + LAWES onsite, tailgate H+S meeting
0645 - calibrate Horiba U-52, mobilize to ISB-A8 location
0715 - LAWES begins hand-clearing ISB-A8 boring
0725 - LAWES begins advancing ISB-A8 boring w/ Geoprobe
0845 - ISB-A8 boring advanced to 40' bgs
0910 - step out 5', begin advancing SP16 sampler
0933 - begin purging for sample ISB-A8-GW-41-45
0950 - collect sample ISB-A8-GW-41-45
0955 - pull up rods + tubing to 35' bgs
0958 - begin purging for sample ISB-A8-GW-31-35
1015 - collect sample ISB-A8-GW-31-35
1018 - pull up rod + tubing to 25' bgs
1022 - begin purging for sample ISB-A8-GW-21-25
1030 - collect sample ISB-A8-GW-21-25

1032 - pull up rods + tubing to 15' bgs
1036 - begin purging for sample ISB-A8-GW-11-15
10:45 - collect sample ISB-A8-GW-11-15
- pull up remaining rods, backfill holes, pack equipment, mob to ISB-A9 location
1145 ~~1135~~ ~~1140~~ - LAWES begins hand-clearing ISB-A9 boring
1200 ~~1145~~ - LAWES begins advancing ISB-A9 boring w/ Geoprobe
1320 - ISB-A9 boring advanced to 40' bgs
1330 - step out 5', begin advancing SP16 sampler
1348 - begin purging for sample ISB-A9-GW-41-45
1400 - collect sample ISB-~~GW~~ A9 GW-41-45
1403 - pull up rods + tubing to 35' bgs
1410 - begin purging for sample ISB-A9-GW-31-35
1418 - collect sample ISB-A9-GW-31-35
1421 - pull up rods + tubing to 25' bgs
1424 - begin purging for sample ISB-A9-GW-21-25
1430 - collect sample ISB-A9-21-25

1437 - pull up rods + tubing to 15' bgs
1440 - begin purging for sample
ISB-A9-GW-11-15
1450 - collect sample ISB-A9-GW-11-15,
split sample w/ MS/MSD
1500 - pull up remaining rods +
tubing, backfill holes,
pack equipment
1510 - decon SP16, collect EQB-11
1530 - transfer IDW to drums
1535 - EA + LAWES offsite

[signature]
5/22/24

Weather: 63°F, cloudy
Personnel: LBL, CD
Objective: GW PDI
0630 - EA onsite to block off
drilling locations w/ cones
0640 - calibrate Horiba U-52
0645 - LAWES onsite
0650 - mobilize equipment +
set up on ISB-C3 location
0710 - LAWES begins hand-clearing
ISB-C3 boring
0720 - LAWES begins advancing ISB-C3
boring w/ Geoprobe
0856 - ISB-C3 soil boring advanced
to 40' bgs
0930 - begin advancing SP16 sampler
to 45' bgs
0945 - begin purging for sample
ISB-C3-GW-41-45
0955 - collect sample ISB-C3-GW-41-45
0958 - pull up rods + tubing to 35' bgs
1002 - begin purging for sample
ISB-C3-GW-31-35
1010 - collect sample ISB-C3-GW-31-35
1013 - pull up rods + tubing to 25' bgs

1015 - begin purging for sample
ISB-C3-GW-21-25
10:20 - collect sample ISB-C3-GW-21-25
~~pull up rods + tubing to 15' bgs~~
TBL ~~begin purging for sample~~
~~ISB-C3-GW-11-15~~
~~collect sample ISB-C3-GW-11-15~~
~~pull up remaining rods~~
10:29 - break due to thunderstorm, will wait 30 min after last strike to resume work
11:29 - resume work, last thunder strike @ 10:59
1134 - pull up rods + tubing to 15' bgs
1139 - begin purging for sample
ISB-C3-GW-11-15
1145 - collect sample ISB-C3-GW-11-15
1150 - pull up remaining rods, pack equipment, mob to ISB-A10 (backfill holes)
1245 - LAWES begins hand-clearing
1300 ISB-A10 boring
~~1405~~ - LAWES begins advancing
ISB-A10 boring w/ Geoprobe
1420 - ISB-A10 boring advanced to 40' bgs

1430 - step out 5', advance SP16 ~~boring~~ to 45' bgs
1448 - begin purging for sample
ISB-A10-GW-41-45
1455 - collect sample ISB-A10-GW-41-45
1458 - pull up rods + tubing to 35' bgs
1502 - begin purging for sample
ISB-A10-GW-31-35
1510 - collect sample ISB-A10-GW-31-35
1512 - pull up rods + tubing to 25' bgs
1516 - begin purging for sample
ISB-A10-GW-21-25
1523 - collect sample ISB-A10-GW-21-25
1525 - pull up rods + tubing to 15' bgs
1528 - begin purging for sample
ISB-A10-GW-11-15
1535 - collect sample ISB-A10-GW-11-15
1538 - pull up remaining rods, backfill holes, pack equipment
1550 - decon SP16, collect EQB-12
1620 - transfer IDW to drums
1630 - EA + LAWES offsite

5/23/24

 Dzus Fastener (152033) 5/24/24

Weather: 63°F, sunny
Personnel: LBL
Objective: GW PDI

0630 - EA + LAWES onsite, tailgate H+S meeting, discuss remaining scope
0645 - calibrate Horiba U-52
0650 - mob rig + equipment to 1SB-B9 location
0715 - LAWES begins hand-clearing 1SB-B9 soil boring
0730 - LAWES begins advancing 1SB-B9 boring w/ Geoprobe
0850 - 1SB-B9 boring advanced to 40' bgs
0930 - step out 5' begin advancing SP16 sampler
0952 - begin purging for sample 1SB-B9-GW-41-45
1005 - collect sample 1SB-B9-GW-41-45
1010 - pull up rods + tubing to 35' bgs
1012 - begin purging for sample 1SB-B9-GW-31-35
1020 - collect sample 1SB-B9-GW-31-35
1022 - pull up rods + tubing to 25' bgs

Dzus Fastener (152033) 5/24/24

1025 - begin purging for sample 1SB-B9-GW-21-25
1030 - collect sample 1SB-B9-GW-21-25
1038 - pull up rods + tubing to 15' bgs
1045 - begin purging for sample 1SB-B9-GW-11-15
1050 - collect sample 1SB-B9-GW-11-15
1055 - pull up remaining rods, pack equipment, mob to 1SB-B8
1105 - LAWES begins hand-clearing 1SB-B8 boring
1123 - LAWES begins advancing 1SB-B8 boring w/ Geoprobe
1220 - 1SB-B8 boring advanced to 40' bgs, CD offsite
1235 - step out 5', begin advancing SP16 sampler
1255 - begin purging for sample 1SB-B8-GW-41-45
1305 - collect sample 1SB-B8-GW-41-45
1308 - pull up rods + tubing to 35' bgs
1312 - begin purging for sample 1SB-B8-GW-31-35, split w/ FD-05
1320 - collect sample 1SB-B8-GW-31-35
1325 - pull up rods + tubing to 25' bgs

 Dzus Fastener (152033) 5/24/24

1328 - begin purging for sample ISB-B8-GW-21-25

1335 - collect sample ISB-B8-GW-21-25

1339 - pull up rods + tubing to 15' bgs

1342 - begin purging for sample ISB-B8-GW-11-15

1350 - collect sample ISB-B8-GW-11-15

1353 - pull up remaining rods, backfill hole, pack equipment

1415 - decon SP16, collect EQB-13

1420 - transfer IDW to drums

1430 - EA + LAWES offsite

5/24/24

Dzus Fastener (152033) 6/4/2024

0700 - EA and LAWES onsite, tailgate H&S

0710 - Calibrate Horiba U-52. Begin mobilization to ISB-B6.

0750 - LAWES begins handclearing on ISB-B6.

0805 - LAWES begins advancing ISB-B6 with Geoprobe

0910 ISB-B6 boring advanced to 40' bgs

0915 step out 5', begin advancing SP16 sampler

0940 begin purging for sample ISB-B6-GW-41-45

0950 collect sample ISB-B6-GW-41-45

0953 pull up rods + tubing to 35' bgs

1000 begin purging for sample ISB-B6-GW-31-35

1008 collect sample ISB-B6-GW-31-35

1013 pull up rods + tubing to 25' bgs

1017 begin purging for sample ISB-B6-GW-21-25

1025 collect sample ISB-B6-GW-21-25

1029 pull up rods + tubing to 15' bgs

1032 begin purging for sample ISB-B6-GW-11-15

1038 collect sample ISB-B6-GW-11-15

1041 pull up remaining rods, backfill

1045 Mob to ISB-B7
1120 LAWES begins hand clearing ISB-B7
1133 LAWES begins advancing ISB-B7 with Geoprobe
1235 ISB-B7 boring advanced to 40' bgs
1248 step out 5', begin advancing SP16 sampler
1305 begin purging for sample ISB-B7-GW-41-45
1313 Collect sample ISB-B7-GW-41-45
1316 pull up rods + tubing to 35' bgs
1320 begin purging for sample ISB-B7-GW-31-35
1328 collect sample ISB-B7-GW-31-35
1331 pull up rods + tubing to 25' bgs
1336 begin purging for sample ISB-B7-GW-21-25
1343 collect sample ISB-B7-GW-21-25
1346 pull up rods + tubing to 15' bgs
1350 begin purging for sample ISB-B7-GW-11-15
1353 Collect sample ISB-B7-GW-11-15
1358 pull up remaining rods, backfill

1416 Mobilize drill rig to ISB-B5 ~~ISB-B4~~
1429 begin advancing SP16 sampler
1441 begin purging for sample ISB-B5-GW-7-11
1446 collect sample ISB-B5-GW-7-11
1505 begin advancing SP16 sampler at ISB-B4.
1515 begin purging for sample ISB-B4-GW-7-11.
1517 collect sample ISB-B4-GW-7-11
1522 pull up remaining rods + tubing, backfill holes, pack equipment
1530 decon SP16 sampler, collect EQB-14
1535 transfer IDW to drum
1615 EA + LAWES (1545) offsite after searching for utility markouts / stormwater diversion routes

Haley Young

6/4/24

Weather: 65°F, cloudy, wind 5-5 mph
Personnel: CD, MY
Objective: GW PDI, GW Interval samples at 6 points on Middle School property.

0630 EA and LAWES onsite, hold tailgate H&S meeting
0649 Calibrate Horiba U-52. LAWES begins rig mobilization to ISB-B1
0750 Begin advancing SP16 sampler on ISB-B1
0801 Begin purging for sample ISB-B1-GW-4-8
0804 Collect sample ISB-B1-GW-4-8 with MS/MSD.
0822 Pull up rods and tubing and mob to ISB-B2.
0853 Begin advancing SP16 sampler on ISB-B2.
0902 Begin purging for sample ISB-B2-GW-4-8
0906 Collect sample ISB-B2-GW-4-8
0910 pull up rods and tubing and mob to ISB-B3.
0928 Begin advancing SP16 sampler on ISB-B3.

0933 Begin purging for sample ISB-B3-GW-3.5-7.5
0936 Collect sample ISB-B3-GW-3.5-7.5
0946 pull up rods and tubing and mob to ISB-D3.
1002 Begin advancing SP16 sampler on ISB-D3
1010 Begin purging for sample ISB-D3-GW-3.5-7.5
1013 Collect sample ISB-D3-GW-3.5-7.5
1018 pull up rods and tubing and mob to ISB-D2.
1034 Begin advancing SP16 sampler on ISB-D2
1041 Begin purging for sample ISB-D2-GW-3.5-7.5 w DUP
1046 Collect Sample ISB-D2-GW-3.5-7.5 and ISB-GW-FD-06-06052024
1053 pull up rods and tubing and mob to ISB-D1
1110 Begin advancing SP16 sampler @ ISB-D1
1116 Begin purging for sample ISB-D1-GW-4-8
1120 Collect sample ISB-D1-GW-4-8
→

 Dzus Fasteners (152033) 6/5/24

1125 pull up rods + tubing. backfill and mob to trucks/pack up for the day.

1210 decon SP16, take EQB-15

1300 EA + LAWES offsite

6/5/24

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A1	EA Personnel: LBL, HM	Client: NYSDEC
Location: Stop + shop lot	Sample Date: 5/17/24	Weather: 67°F, cloudy
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A1-GW-11-15	Sample Time: 13:55	Depth Interval of Screen: 11-15' bgs
Well Volume		
A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 9.2	E. Well Volume (gal) C*D): 0.06	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 5.8	F. Three Well Volumes (gal) (E3): 0.18	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.56	0.638	>1,000	0.69	19.33	-42			

Sample Interval 2

Sample ID: ISB-A1-GW-21-25	Sample Time: 13:40	Depth Interval of Screen: 21-25' bgs
Well Volume		
A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9.2'	E. Well Volume (gal) C*D): 0.16	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 15.8	F. Three Well Volumes (gal) (E3): 0.48	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.99	0.210	>1000	1.90	19.05	45			

Sample Interval 3

Sample ID: ISB-A1-GW-31-35	Sample Time: 13:20	Depth Interval of Screen: 31-35' bgs
Well Volume		
A. Well Depth (ft): 35' bgs	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9.2'	E. Well Volume (gal) C*D): 0.26	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 25.8	F. Three Well Volumes (gal) (E3): 0.78	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.19	0.226	>1000	3.10	19.47	14			

Sample Interval 4

Sample ID: ISB-A1-GW-41-45	Sample Time: 13:05	Depth Interval of Screen: 41-45' bgs
Well Volume		
A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 9.2'	E. Well Volume (gal) C*D): ~~1.85~~ 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 35.8	F. Three Well Volumes (gal) (E3): 1.10	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.61	0.328	435	1.83	21.40	-28			

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A2	EA Personnel: LBL, HM	Client: NYSDEC
Location: stop + shop lot	Sample Date: 5/17/24	Weather: 65°F, cloudy
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A2-GW-11-15	Sample Time: 12:10	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.85	E. Well Volume (gal) C*D): 0.06	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 6.15	F. Three Well Volumes (gal) (E3): 0.19	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.39	0.2	0.0	7.82	19.62	14			

Sample Interval 2

Sample ID: ISB-A2-GW-21-25	Sample Time: 11:55	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.85	E. Well Volume (gal) C*D): 0.16	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 16.15	F. Three Well Volumes (gal) (E3): 0.49	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.23	0.239	0.0	2.43	20.94	34			

Sample Interval 3

Sample ID: ISB-A2-GW-31-35	Sample Time: 11:40	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.85	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 26.15	F. Three Well Volumes (gal) (E3): 0.80	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.45	0.286	0.0	0.43	20.36	-43			

Sample Interval 4

Sample ID: ISB-A2-GW-41-45	Sample Time: 11:25	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gals
B. Depth to Water (ft): 8.85	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 36.15	F. Three Well Volumes (gal) (E3): 1.10	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.59	0.374	0.0	1.68	20.30	-68			

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A3	EA Personnel: LBL, HM	Client: NYSDEC
Location: Stop + Shop lot	Sample Date: 5/17/24	Weather: 56°F, cloudy
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A3-GW-11-15	Sample Time: 08:45	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.5	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 6.5	F. Three Well Volumes (gal) (E3): 0.20	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.58	0.184	0.0	1.49	16.13	-11			

Sample Interval 2

Sample ID: ISB-A3-GW-21-25	Sample Time: 08:30	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.5	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 16.5	F. Three Well Volumes (gal) (E3): 0.50	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.66	0.329	0.0	2.96	16.15	72			

Sample Interval 3

Sample ID: ISB-A3-GW-31-35	Sample Time: 08:10	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35' bgs	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.5	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 26.5	F. Three Well Volumes (gal) (E3): 0.81	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.66	0.329	0.0	2.96	16.15	72			

Sample Interval 4

Sample ID: ISB-A3-GW-41-45	Sample Time: 07:55	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8.5	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 36.5	F. Three Well Volumes (gal) (E3): 1.12	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.04	0.522	963	3.23	15.41	157			

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A4	EA Personnel: LBL, HM	Client: NYSDEC
Location: Stop & Shop front lot	Sample Date: 5/15/24	Weather: 60°F, rain
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A4-GW-11-15	Sample Time: 0925	Depth Interval of Screen: 11-15' bgs
	Well Volume	
A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 9.1	E. Well Volume (gal) C*D): 0.06	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 5.9	F. Three Well Volumes (gal) (E3): 0.18	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.29	0.274	994	2.72	16.36	16			

Sample Interval 2

Sample ID: ISB-A4-GW-21-25	Sample Time: 0855	Depth Interval of Screen: 21-25' bgs
	Well Volume	
A. Well Depth (ft): 25	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9.1	E. Well Volume (gal) C*D): 0.16	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 15.9	F. Three Well Volumes (gal) (E3): 0.49	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.18	0.261	129	1.43	16.32	27			

Sample Interval 3

Sample ID: ISB-A4-GW-31-35	Sample Time:	Depth Interval of Screen: 31-35' bgs
	Well Volume	
A. Well Depth (ft): 35	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9.1	E. Well Volume (gal) C*D): 0.26	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 25.9	F. Three Well Volumes (gal) (E3): 0.79	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.92	0.232	>1000	2.84	16.46	49			

Sample Interval 4

Sample ID: ISB-A4-GW-41-45	Sample Time: 08:20	Depth Interval of Screen: 41-45' bgs
	Well Volume	
A. Well Depth (ft): 45	D. Well Volume (ft):	Volume Removed: ~~Water~~ 2.0 gal
B. Depth to Water (ft): 9.1	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 35.9	F. Three Well Volumes (gal) (E3): 1.10	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.12	0.401	>1000	1.68	16.48	128			

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A5	EA Personnel: LBL, HM	Client: NYSDEC
Location: Stop + Shop Lot	Sample Date: 5/15/24	Weather: 57°F, rain
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A5-GW-11-15	Sample Time: 15:50	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.06	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 6'	F. Three Well Volumes (gal) (E3): 0.18	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.59	0.174	0.0	4.51	16.92	52			

Sample Interval 2

Sample ID: ISB-A5-GW-21-25	Sample Time: 15:25	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.16	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 16'	F. Three Well Volumes (gal) (E3): 0.49	Analyses: TAL Metals + MNA

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.42	0.163	614	1.31	17.44	29			

Sample Interval 3

Sample ID: ISB-A5-GW-31-35	Sample Time: 1510	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.26	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 26'	F. Three Well Volumes (gal) (E3): 0.79	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.57	0.249	0.0	1.89	18.25	2			

Sample Interval 4

Sample ID: ~~ISB-GW~~ ISB-A5-GW-41-45	Sample Time: 1455	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 36'	F. Three Well Volumes (gal) (E3): 1.10	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.57	0.249	0.0	1.89	18.25	2			

COMMENTS & OBSERVATIONS:

Collect ISB-GW-FD-02-05152024 @ 21-25' interval

EQB-5 16:25 5/?/24

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A6	EA Personnel: CD, LBL	Client: NYSDEC
Location: Ace Hardware Parking Lot	Sample Date: 5/21/2024	Weather: 57°F, mostly cloudy
Sounding Method:	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-A6-GW-11-15	Sample Time: 1100	Depth Interval of Screen: 11-15

Well Volume

A. Well Depth (ft): 15	D. Well Volume (ft) gal: ~0.0103	Volume Removed: 0.5 gal
B. Depth to Water (ft): 7.65	E. Well Volume (gal) C*D): 0.08	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 7.35	F. Three Well Volumes (gal) (E3): 0.23	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1100	6.55	0.254	>1000	2.17	19.12	-47	—	—	—

Sample Interval 2

Sample ID: ISB-A6-GW-21-25	Sample Time: 1040	Depth Interval of Screen: 21-25

Well Volume

A. Well Depth (ft): 25	D. Well Volume (ft) gal: ~0.0103	Volume Removed: 1 gal
B. Depth to Water (ft): 7.65	E. Well Volume (gal) C*D): 0.18	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 17.35	F. Three Well Volumes (gal) (E3): 0.54	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1040	6.28	0.228	>1000	1.54	18.83	-1	—	—	—

Sample Interval 3

Sample ID: ISB-A6-GW-31-35	Sample Time: 1028	Depth Interval of Screen: 31-35

Well Volume

A. Well Depth (ft): 35	D. Well Volume (ft) gal: ~0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.65	E. Well Volume (gal) C*D): 0.28	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 27.35	F. Three Well Volumes (gal) (E3): 0.85	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1028	6.18	0.164	>1000	2.79	18.87	26	—	—	—

Sample Interval 4

Sample ID: ISB-A6-GW-41-45	Sample Time: 1010	Depth Interval of Screen: 41-45

Well Volume

A. Well Depth (ft): 45	D. Well Volume (ft) gal: ~0.0103	Volume Removed: 2 gal
B. Depth to Water (ft): 7.65	E. Well Volume (gal) C*D): 0.38	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 37.35	F. Three Well Volumes (gal) (E3): 1.15	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1010	5.66	0.354	>1000	2.27	19.76	109	—	—	—

COMMENTS & OBSERVATIONS:

No QA/QC.

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A7	EA Personnel: LBL, CD	Client: NYSDEC
Location: Captree Lot	Sample Date: 5/21/24	Weather: 65°F, sunny
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A7-GW-11-15	Sample Time: 1515	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1515	6.76	0.231	>1000	0.24	17.70	-57	—		

Sample Interval 2

Sample ID: ISB-A7-GW-21-25	Sample Time: 1500	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1500	6.60	0.382	>1000	0.40	17.96	-57	—	—	

Sample Interval 3

Sample ID: ISB-A7-GW-31-35	Sample Time: 1450	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1450	6.53	0.182	>1000	3.63	18.35	-17	—	—	—

Sample Interval 4

Sample ID: ISB-A7-GW-41-45	Sample Time: 1430	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1430	6.62	0.179	>1000	4.80	18.48	-8	—	—	—

COMMENTS & OBSERVATIONS:

* B-F not recorded, DTW between 5-10' bgs

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-A8	EA Personnel: LBL, CD	Client: NYSDEC
Location: Captree lot	Sample Date: 5/22/24	Weather: 66°F, Sunny
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-A8-GW-11-15	Sample Time: 1045	Depth Interval of Screen: 11-15' bgs
A. Well Depth (ft): 15	D. Well Volume (ft): 0.0103	Volume Removed: 1.0 gal
B. Depth to Water (ft): 7.05	E. Well Volume (gal) C*D): 0.08	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 7.95	F. Three Well Volumes (gal) (E3): 0.24	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1045	6.40	0.783	>1000	1.01	18.24	-57	—		—

Sample Interval 2

Sample ID: ISB-A8-GW-21-25	Sample Time: 1030	Depth Interval of Screen: 21-25' bgs
A. Well Depth (ft): 25	D. Well Volume (ft): 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.05	E. Well Volume (gal) C*D): 0.18	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 17.95	F. Three Well Volumes (gal) (E3): 0.55	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1030	6.34	0.179	>1000	3.38	18.18	-6	—		—

Sample Interval 3

Sample ID: ISB-A8-GW-31-35	Sample Time: 1015	Depth Interval of Screen: 31-35' bgs
A. Well Depth (ft): 35	D. Well Volume (ft): 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.05	E. Well Volume (gal) C*D): 0.29	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 27.95	F. Three Well Volumes (gal) (E3): 0.86	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1015	6.21	0.204	>1000	1.67	18.81	26			

Sample Interval 4

Sample ID: ISB-A8-GW-41-45	Sample Time: 0950	Depth Interval of Screen: 41-45' bgs
A. Well Depth (ft): 45	D. Well Volume (ft): 0.0103	Volume Removed: 2.0 gal
B. Depth to Water (ft): 7.05	E. Well Volume (gal) C*D): 0.39	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 37.95	F. Three Well Volumes (gal) (E3): 1.16	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0950	5.82	0.318	>1000	4.00	19.00	49	—		—

COMMENTS & OBSERVATIONS:

No QA/QC.

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 15B-A9	EA Personnel: C. Derrick, L. Backman-Law	Client: NYSDEC
Location: Ace Hardware Lot	Sample Date: 5/22/2024	Weather: 70°F, sunny
Sounding Method: —	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 15B-A9-GW-11-15	Sample Time: 1450	Depth Interval of Screen: 11-15 ft bgs
Well Volume		
A. Well Depth (ft): 15	D. Well Volume (ft): 0.0103	Volume Removed: 0.5 gal
B. Depth to Water (ft): 7.55	E. Well Volume (gal) C*D): 0.08	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 7.45	F. Three Well Volumes (gal) (E3): 0.23	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1450	6.24	0.264	>1000	0.30	19.09	-29	—	—	—

Sample Interval 2

Sample ID: 15B-A9-GW-21-25	Sample Time: 1430	Depth Interval of Screen: 21-25
Well Volume		
A. Well Depth (ft): 25	D. Well Volume (ft): 0.0103	Volume Removed: 1 gal
B. Depth to Water (ft): 7.55	E. Well Volume (gal) C*D): 0.18	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 17.45	F. Three Well Volumes (gal) (E3): 0.54	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1430	6.31	0.253	>1000	1.26	19.84	14	—	—	—

Sample Interval 3

Sample ID: 15B-A9-GW-31-35	Sample Time: 1418	Depth Interval of Screen: 31-35
Well Volume		
A. Well Depth (ft): 35	D. Well Volume (ft): 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.55	E. Well Volume (gal) C*D): 0.28	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 27.45	F. Three Well Volumes (gal) (E3): 0.85	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1418	6.54	0.268	643	3.08	20.87	-14	—	—	—

Sample Interval 4

Sample ID: 15B-A9-GW-41-45	Sample Time: 1400	Depth Interval of Screen: 41-45
Well Volume		
A. Well Depth (ft): 45	D. Well Volume ~~(ft)~~ gal: 0.0103	Volume Removed: 2 gal
B. Depth to Water (ft): 7.55	E. Well Volume (gal) C*D): 0.39	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 37.45	F. Three Well Volumes (gal) (E3): 1.16	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1400	6.84	0.329	>1000	2.64	21.99	-34	—	—	—

COMMENTS & OBSERVATIONS:

Extra volume provided with sample 15B-A9-GW-11-15 for MS/MSD.

EA Engineering, P.C. and Its Affiliate EA Science and Technology

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 1SB-A10	EA Personnel: LBL	Client: NYSDEC
Location: crabtree lot	Sample Date: 5/23/24	Weather: 74°F, cloudy
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: 1SB-A10-GW-11-15	Sample Time: 1335	Depth Interval of Screen: 11-15' bgs
Well Volume		
A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1335	6.43	0.132	>1000	1.67	18.32	-54	—	—	—

Sample Interval 2

Sample ID: 1SB-A10-GW-21-25	Sample Time: 1523	Depth Interval of Screen: 21-25' bgs
Well Volume		
A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1523	6.13	0.266	>1000	0.78	18.47	11	—	—	—

Sample Interval 3

Sample ID: 1SB-A10-GW-31-35	Sample Time: 1510	Depth Interval of Screen: 31-35' bgs
Well Volume		
A. Well Depth (ft): 35	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1510	6.22	0.241	>1000	3.31	19.25	59	—	—	—

Sample Interval 4

Sample ID: 1SB-A10-GW-41-45	Sample Time: 1455	Depth Interval of Screen: 41-45' bgs
Well Volume		
A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): *	E. Well Volume (gal) C*D):	Pump Type: Waterra
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1455	6.46	0.270	>1000	2.74	20.49	49	—	—	—

COMMENTS & OBSERVATIONS:

* DTW between 5-7.7ft, not recorded due to approximation.

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B1	EA Personnel: LBL, MB	Client: NYSDEC
Location: school ball field	Sample Date: 5/10/24	Weather: 58°F rain
Sounding Method: Heron Skinny	Measurement Ref: ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-B1-GW-11-15	Sample Time: 12:30	Depth Interval of Screen: 11-15' bgs
	Well Volume	
A. Well Depth (ft): 15	D. Well Volume (ft): —	Volume Removed: 1.0
B. Depth to Water (ft): 4.5	E. Well Volume (gal) C*D): 0.107	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 10.5	F. Three Well Volumes (gal) (E3): 0.321	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1230	6.77	0.249	71000	1.95	15.69	-34	4.5	0.3	6.0

Sample Interval 2

Sample ID: ISB-B1-GW-21-25	Sample Time: 12:15	Depth Interval of Screen: 21-25' bgs
	Well Volume	
A. Well Depth (ft): 25	D. Well Volume (ft): —	Volume Removed: 1.5
B. Depth to Water (ft): 4.5	E. Well Volume (gal) C*D): 0.209	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 20.5	F. Three Well Volumes (gal) (E3): 0.627	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1215	6.66	0.264	71000	3.88	15.32	5	4.5	0.~~8~~3	4.5

Sample Interval 3

Sample ID: ISB-B1-GW-31-35	Sample Time: 12:00	Depth Interval of Screen: 31-35' bgs
	Well Volume [illegible]	
A. Well Depth (ft): 35	D. Well Volume (ft): ~~0.[illegible]~~	Volume Removed: 1.5
B. Depth to Water (ft): 4.5	E. Well Volume (gal) C*D): ~~0.413~~ 0.31	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 30.5	F. Three Well Volumes (gal) (E3): ~~1.20~~ 0.93	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1200	6.45	0.396	973	3.72	15.30	32	4.5	0.3	3.0

Sample Interval 4

Sample ID: ISB-B1-GW-41-45	Sample Time: 11:45	Depth Interval of Screen: 41-45' bgs
	Well Volume	
A. Well Depth (ft): 45	D. Well Volume (ft): ~~0.497~~	Volume Removed: 2.0
B. Depth to Water (ft): 4.5	E. Well Volume (gal) C*D): 0.413	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 40.5	F. Three Well Volumes (gal) (E3): 1.24	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1145	6.27	0.512	401	5.67	14.87	61	4.5	0.3	2.0

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 1SB-B1	EA Personnel: C Derrick, M. Young	Client: NYSDEC (152033)
Location: Davis Fastener Site Beach Middle School Field	Sample Date: 6/5/2024	Weather: 65°F, cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 1SB-B1-~~G~~GW-4-8	Sample Time: 0804	Depth Interval of Screen: 4-8

Well Volume

A. Well Depth (ft): 8	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 4.50	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 3.50	F. Three Well Volumes (gal) (E3): 0.11	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0804	6.44	0.441	1000+	3.93	19.93	64	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B2	EA Personnel: LBL, MB	Client: NYSDEC
Location: School ball field	Sample Date: 5/10/24	Weather: 58°F, clouds
Sounding Method: heron skinny	Measurement Ref: ground	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-B2-GW-11-15	Sample Time: 09:00	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft): —	Volume Removed: ~~3~~ 1.0 gal
B. Depth to Water (ft): 4.05	E. Well Volume (gal) C*D): 0.112	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 10.95	F. Three Well Volumes (gal) (E3): 0.336	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0900	6.79	0.494	>1000	2.07	12.66	-45	4.05	0.3	6.0

Sample Interval 2

Sample ID: ISB-B2-GW-21-25	Sample Time: 0840	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25	D. Well Volume (ft): —	Volume Removed: 1.5 gal
B. Depth to Water (ft): 4.05	E. Well Volume (gal) C*D): 0.214	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 20.95	F. Three Well Volumes (gal) (E3): 0.642	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0840	6.60	0.251	>1000	1.30	13.37	-29	4.05	0.3	5.0

Sample Interval 3

Sample ID: ISB-B2-GW-31-35	Sample Time: 08:25	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35	D. Well Volume (ft): —	Volume Removed: 1.5 gal
B. Depth to Water (ft): 4.05	E. Well Volume (gal) C*D): 0.316	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 30.95	F. Three Well Volumes (gal) (E3): 0.948	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0825	6.23	0.370	>1000	0.88	13.86	11	4.05	0.3	4.0

Sample Interval 4

Sample ID: ISB-B2-GW-41-45	Sample Time: 08:10	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45	D. Well Volume (ft): —	Volume Removed: 2.0 gal
B. Depth to Water (ft): 4.05	E. Well Volume (gal) C*D): 0.418	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 40.95	F. Three Well Volumes (gal) (E3): 1.25	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0810	5.32	0.474	673	2.04	13.31	175	4.05	0.3	2.0

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 158-B2	EA Personnel: C.Derrick, H. Young	Client: NYSDEC (152033)
Location: Dzus Fastener Site Beach Middle School Field	Sample Date: 6/5/2024	Weather: 67°F, cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 158-B2-GW-4-8	Sample Time: 0906	Depth Interval of Screen: 4-8
Well Volume		
A. Well Depth (ft): 8	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 4.05	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 3.95	F. Three Well Volumes (gal) (E3): 0.12	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0900	6.85	0.401	1000+	1.58	18.72	-40	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B3	EA Personnel: LBL, MB	Client: NYSDEC
Location: school ball field	Sample Date: 5/9/24	Weather:
Sounding Method: Heron Skinny	Measurement Ref: ground surf.	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-B3-GW-11-15	Sample Time: 11:33	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft): —	Volume Removed: 1.0
B. Depth to Water (ft): 3.7	E. Well Volume (gal) C*D): 0.115	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 11.3	F. Three Well Volumes (gal) (E3): 0.345	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1133	6.26	0.253	>1000	0.73	20.14	-27	3.7	0.3	6.0

Sample Interval 2

Sample ID: ISB-B3-GW-21-25	Sample Time: 1110	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft): —	Volume Removed: 1.5
B. Depth to Water (ft): 3.7	E. Well Volume (gal) C*D): 0.217	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 21.3	F. Three Well Volumes (gal) (E3): 0.651	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1112	6.15	0.192	>1000	0.72	19.98	-32	3.7	0.3	5.0

Sample Interval 3

Sample ID: ISB-B3-GW-31-35	Sample Time: 10:40	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft): —	Volume Removed: 1.5
B. Depth to Water (ft): 3.7	E. Well Volume (gal) C*D): 0.319	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 31.3	F. Three Well Volumes (gal) (E3): 0.957	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1040	5.77	0.253	>1000	1.87	19.54	51	3.7	0.3	3.5

Sample Interval 4

Sample ID: ISB-B3-GW-41-45	Sample Time: 10:20	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft): —	Volume Removed: 2.0
B. Depth to Water (ft): 3.7	E. Well Volume (gal) C*D): 0.421	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 41.3	F. Three Well Volumes (gal) (E3): 1.26	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1021	5.13	0.433	556	3.14	20.58	172	3.7	0.3	2.0

COMMENTS & OBSERVATIONS:

FD collected @ ISB-B3-GW-11-15 interval

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B3	EA Personnel: C. Derrick, M. Young	Client: NYSDEC (152033)
Location: Dzus Fastener Site Beach Middle School Field	Sample Date: 06/5/2024	Weather: 68°F, cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-B3-GW-3.5-7.5	Sample Time: 0936	Depth Interval of Screen: 3.5-7.5
Well Volume		
A. Well Depth (ft): 7.5	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 3.70	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 3.80	F. Three Well Volumes (gal) (E3): 0.12	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0936	6.46	0.589	1000+	0.01	19.39	-2	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B4	EA Personnel: LBL, HM	Client: NYSDEC
Location: Stop + Shop, back lot	Sample Date: 5/14/24	Weather: 61°F, sunny
Sounding Method: Heron WLM	Measurement Ref: ground	Well Diameter (in): 1.5"

Sample Interval 1

Sample ID: ISB-B4-GW-11-15	Sample Time: 11:45	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 7	F. Three Well Volumes (gal) (E3): 0.21	Analyses: TAL Metals (tot. + dis)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.60	0.540	0.0	0.46	19.20	-61			

Sample Interval 2

Sample ID: ISB-B4-GW-21-25	Sample Time: 11:20	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): ~~3~~ 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 17	F. Three Well Volumes (gal) (E3): 0.52	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.34	0.238	0.0	1.45	18.76	-6			

Sample Interval 3

Sample ID: ISB-B4-GW-31-35	Sample Time: 11:05	Depth Interval of Screen: ~~15~~ 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8	E. Well Volume (gal) C*D): 0.28	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 27	F. Three Well Volumes (gal) (E3): 0.83	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.72	0.154	0.0	2.06	18.04	28			

Sample Interval 4

Sample ID: ISB-B4-GW-41-45	Sample Time: 10:40	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8	E. Well Volume (gal) C*D): 0.38	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 37	F. Three Well Volumes (gal) (E3): 1.13	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	5.03	0.311	555	4.76	19.59	194			

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 1SB-B4	EA Personnel: C. Derrick, H. Young	Client: NYSDEC (152033)
Location: Dzus Fastener Site Adjacent drum storage location	Sample Date: 6/4/2024	Weather: 71°F partly cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 1SB-B4-GW-7-11	Sample Time: 1517	Depth Interval of Screen: 7-11

Well Volume

A. Well Depth (ft): 11	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 7.5	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 3.5	F. Three Well Volumes (gal) (E3): 0.11	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1517	7.07	0.569	1000+	2.29	21.14	-36	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B5	EA Personnel: LBL, HM	Client: NYSDEC
Location: Stop+Shop back lot	Sample Date: 5/16/24	Weather: 80°F, Overcast
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-B5GW-11-15	Sample Time: 0910	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.6	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 6.4	F. Three Well Volumes (gal) (E3): 0.20	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.57	0.344	6.0	3.98	15.31	5			

Sample Interval 2

Sample ID: ISB-B5-GW-21-25	Sample Time: 0845	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 16.4	F. Three Well Volumes (gal) (E3): 0.50	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.51	0.147	0.0	1.79	15.53	18			

Sample Interval 3

Sample ID: ISB-B5-GW-31-35	Sample Time: 0815	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 26.4	F. Three Well Volumes (gal) (E3): 0.81	Analyses: TAL Metals + MNA

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.60	0.148	834	0.0	15.65	-50			

Sample Interval 4

Sample ID: ISB-B5-GW-41-45	Sample Time: 0800	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 9'	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 36.4	F. Three Well Volumes (gal) (E3): 1.11	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
	6.43	0.209	513	5.06	15.76	65			

COMMENTS & OBSERVATIONS:

Sample ISB-B5-GW-31-35 split w/ MS/MSD

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 1SB-B5	EA Personnel: C. Derrick, H. Young	Client: NYSDEC (152033)
Location: Drug Fastener site Adjacent drum storage location	Sample Date: 6/4/2024	Weather: 71°F partly cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 1SB-B5-GW-7-11	Sample Time: 1446	Depth Interval of Screen: 7-11
Well Volume		
A. Well Depth (ft): 11	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 7.5	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 3.5	F. Three Well Volumes (gal) (E3): 0.11	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1446	6.81	0.900	>1000	7.51	22.03	20	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 15B-B6	EA Personnel: C.Derrick, H. Young	Client: NYSDEC (152033)
Location: Dzus Site - Behind Captree Plaza	Sample Date: 6/4/2024	Weather: 67°F, partly cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 15B-B6-GW-41-45	Sample Time: 0950	Depth Interval of Screen: 41-45
Well Volume		
A. Well Depth (ft): 45	D. Well Volume (ft): 0.0103	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8.35	E. Well Volume (gal) C*D): 0.38	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 36.65	F. Three Well Volumes (gal) (E3): 1.13	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0950	6.20	0.265	424	7.49	20.32	181	—	—	—

Sample Interval 2

Sample ID: 15B-B6-GW-31-35	Sample Time: 1008	Depth Interval of Screen: 31-35
Well Volume		
A. Well Depth (ft): 35	D. Well Volume (ft): 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.35	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 26.65	F. Three Well Volumes (gal) (E3): 0.82	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1008	7.27	0.134	1000+	8.10	19.75	-40	—	—	—

Sample Interval 3

Sample ID: 15B-B6-GW-21-25	Sample Time: 1025	Depth Interval of Screen: 21-25
Well Volume		
A. Well Depth (ft): 25	D. Well Volume (ft): 0.0103	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.35	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 16.65	F. Three Well Volumes (gal) (E3): 0.51	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1025	7.25	0.218	1000+	8.05	19.42	-26	—	—	—

Sample Interval 4

Sample ID: 15B-B6-GW-11-15	Sample Time: 1038	Depth Interval of Screen: 11-15
Well Volume		
A. Well Depth (ft): 15	D. Well Volume (ft): 0.0103	Volume Removed: 0.5 gal
B. Depth to Water (ft): 8.35	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 6.65	F. Three Well Volumes (gal) (E3): 0.21	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1038	7.66	0.324	1000+	8.18	18.45	-129	—	—	—

COMMENTS & OBSERVATIONS:

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 158-B7	EA Personnel: C.Derrick, M.Young	Client: NYSDEC (152033)
Location: Dzus Fastener site Behind Captree Plaza	Sample Date: 6/4/2024	Weather: 72°F, Sunny
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 158-B7-GW-41-45	Sample Time: 1313	Depth Interval of Screen: 41-45

Well Volume

A. Well Depth (ft): 45	D. Well Volume (ft): 0.0103	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8.40	E. Well Volume (gal) C*D): 0.38	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 36.60	F. Three Well Volumes (gal) (E3): 1.13	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1313	6.88	0.254	1000+	3.22	20.13	78	—	—	—

Sample Interval 2

Sample ID: 158-B7-GW-31-35	Sample Time: 1328	Depth Interval of Screen: 31-35

Well Volume

A. Well Depth (ft): 35	D. Well Volume (ft): 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.40	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 26.60	F. Three Well Volumes (gal) (E3): 0.82	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1328	7.12	0.222	>1,000	2.58	19.91	11	—	—	—

Sample Interval 3

Sample ID: 158-B7-GW-21-25	Sample Time: 1343	Depth Interval of Screen: 21-25

Well Volume

A. Well Depth (ft): 25	D. Well Volume (ft): 0.0103	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.40	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 16.60	F. Three Well Volumes (gal) (E3): 0.51	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1343	7.27	0.244	>1000	1.19	19.52	-45	—	—	—

Sample Interval 4

Sample ID: 158-B7-GW-11-15	Sample Time: 1353	Depth Interval of Screen: 11-15

Well Volume

A. Well Depth (ft): 15	D. Well Volume (ft): 0.0103	Volume Removed: 0.5 gal
B. Depth to Water (ft): 8.40	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 6.60	F. Three Well Volumes (gal) (E3): 0.20	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1353	7.17	0.585	1000+	0.83	19.67	-54	—	—	—

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-B8	EA Personnel: LBL, CD	Client: NYSDEC
Location: behind Captree plaza	Sample Date: 5/24/24	Weather: 76°F, sunny
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-B8-GW-11-15	Sample Time: 13:50	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.95	E. Well Volume (gal) C*D): 0.06	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 6.05	F. Three Well Volumes (gal) (E3): 0.18	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
13:50	6.65	0.407	>1000	0.30	20.45	-84	—	—	—

Sample Interval 2

Sample ID: ISB-B8-GW-21-25	Sample Time: 13:35	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.95	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 16.05	F. Three Well Volumes (gal) (E3): 0.51	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
13:35	6.37	0.272	>1000	0.66	20.71	-24	—	—	—

Sample Interval 3

Sample ID: ISB-B8-GW-31-35	Sample Time: 1320	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.95	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 26.05	F. Three Well Volumes (gal) (E3): 0.81	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1320	6.42	0.277	976	0.44	20.96	-52	—	—	—

Sample Interval 4

Sample ID: ISB-B8-GW-41-45	Sample Time:	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft): 13:05	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8.95	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 36.05	F. Three Well Volumes (gal) (E3): 1.11	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
13:05	6.36	0.357	>1000	0.86	21.40	-28	—	—	—

COMMENTS & OBSERVATIONS:

sample @ 31-35 interval split w/ ISB-GW-FD-05-05242024

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 1SB-B9	EA Personnel: CD, IBL	Client: NYSDEC
Location: Behind Captree Plaza	Sample Date: 5/24/24	Weather: 68°F mostly sunny
Sounding Method:	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 1SB-B9-GW-11-15	Sample Time: 1050	Depth Interval of Screen: 11-15

Well Volume

A. Well Depth (ft): 15	D. Well Volume ~~(ft)~~: gal 0.0103	Volume Removed: 0.5 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 6.45	F. Three Well Volumes (gal) (E3): 0.20	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1050	6.36	1.31	>1000	0.22	16.64	-75	—	—	—

Sample Interval 2

Sample ID: 1SB-B9-GW-21-25	Sample Time: 1030	Depth Interval of Screen: 21-25

Well Volume

A. Well Depth (ft): 25	D. Well Volume ~~(ft)~~ gal: 0.0103	Volume Removed: 1 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 16.45	F. Three Well Volumes (gal) (E3): 0.51	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1030	5.97	0.210	>1000	0.51	17.13	-13	—	—	—

Sample Interval 3

Sample ID: 1SB-B9-GW-31-35	Sample Time: 1020	Depth Interval of Screen: 31-35

Well Volume

A. Well Depth (ft): 35	D. Well Volume ~~(ft)~~ gal: 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 26.45	F. Three Well Volumes (gal) (E3): 0.82	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1020	6.04	0.233	>1000	1.23	17.90	-4	—	—	—

Sample Interval 4

Sample ID: * 1SB-B9-GW-41-45	Sample Time: 1005	Depth Interval of Screen: 41-45

Well Volume

A. Well Depth (ft): 45	D. Well Volume ~~(ft)~~ gal: 0.0103	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D):	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 36.45	F. Three Well Volumes (gal) (E3):	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1005	5.97	0.351	>1000	0.37	19.05	-25	—	—	—

COMMENTS & OBSERVATIONS:

* Extra volume provided with 1SB-B9-GW-41-45 for MS/MSD.

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-C1	EA Personnel: LBL, CD	Client: NYSDEC
Location: Stop + Shop Lot	Sample Date: 5/20/24	Weather: 67°F, sunny
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-C1-GW-11-15	Sample Time: 1525	Depth Interval of Screen: 11-15' bgs
Well Volume		
A. Well Depth (ft): 15	D. Well Volume (ft): ~~1525~~	Volume Removed: 1.0 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 6.45	F. Three Well Volumes (gal) (E3): 0.20	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1525	6.69	0.815	>1000	3.69	19.69	-48			

Sample Interval 2

Sample ID: ISB-C1-GW-21-25	Sample Time: 1510	Depth Interval of Screen: 21-25' bgs
Well Volume		
A. Well Depth (ft): 25	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.17	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 16.45	F. Three Well Volumes (gal) (E3): 0.50	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1510	6.81	0.414	>1000	2.77	20.4	-33			

Sample Interval 3

Sample ID: ISB-C1-GW-31-35	Sample Time: 1450	Depth Interval of Screen: 31-35' bgs
Well Volume		
A. Well Depth (ft): 35	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.27	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 26.45	F. Three Well Volumes (gal) (E3): 0.81	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1450	6.54	0.886	>1000	3.64	19.31	-21			

Sample Interval 4

Sample ID: ISB-C1-GW-41-45	Sample Time: 1430	Depth Interval of Screen: 41-45' bgs
Well Volume		
A. Well Depth (ft): 45	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 8.55	E. Well Volume (gal) C*D): 0.37	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 36.45	F. Three Well Volumes (gal) (E3): 1.12	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1430	6.63	0.579	>1000	0.17	20.99	-82			

COMMENTS & OBSERVATIONS:

Split sample ISB-C1-GW-41-45 w/ MS/MSD

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-C2	EA Personnel: LBL, CD	Client: NYSDEC
Location: Stop + Shop lot	Sample Date: 5/20/24	Weather: 61°F, cloudy
Sounding Method: Heron Skinny	Measurement Ref: Ground	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-C2-GW-11-15	Sample Time: 11:05	Depth Interval of Screen: 11-15' bgs
Well Volume		
A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 1.0 gal
B. Depth to Water (ft): 7.8	E. Well Volume (gal) C*D): 0.07	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 7.2	F. Three Well Volumes (gal) (E3): 0.22	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1110	6.54	0.404	>1000	0.73	17.66	-39			

Sample Interval 2

Sample ID: ISB-C2-GW-21-25	Sample Time: 1045	Depth Interval of Screen: 21-25' bgs
Well Volume		
A. Well Depth (ft): 25	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.8	E. Well Volume (gal) C*D): 0.18	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 17.2	F. Three Well Volumes (gal) (E3): 0.53	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1049	6.49	0.257	827	0.90	17.65	3			

Sample Interval 3

Sample ID: ISB-C2-GW-31-35	Sample Time: 1020	Depth Interval of Screen: 31-35' bgs
Well Volume		
A. Well Depth (ft): 35	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.8	E. Well Volume (gal) C*D): 0.28	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 27.2	F. Three Well Volumes (gal) (E3): 0.83	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1026	6.47	0.218	>1000	1.88	17.69	-46			

Sample Interval 4

Sample ID: ISB-C2-GW-41-45	Sample Time: 0955	Depth Interval of Screen: 41-45' bgs
Well Volume		
A. Well Depth (ft): 45	D. Well Volume (ft):	Volume Removed: 2.0 gal
B. Depth to Water (ft): 7.8	E. Well Volume (gal) C*D): ~~1.14~~ 0.38	Pump Type: Waterra
C. Liquid Depth (ft) (A-B): 37.2	F. Three Well Volumes (gal) (E3): 1.14	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1002	5.56	0.384	>1000	1.73	17.60	111			

COMMENTS & OBSERVATIONS:

split sample ISB-C2-GW-21-25 w/ FD-03

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-C3	EA Personnel: CD, LBV	Client: NYSDEC
Location: Ace Hardware Lot	Sample Date: 5/23/2024	Weather: 63°F, mostly cloudy
Sounding Method:	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-C3-GW-11-15	Sample Time: 1145	Depth Interval of Screen: 11-15
Well Volume		
A. Well Depth (ft): 15	D. Well Volume (~~ft~~ gal): 0.0103	Volume Removed: 0.5 gal
B. Depth to Water (ft): 7.15	E. Well Volume (gal) C*D): 0.08	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 7.85	F. Three Well Volumes (gal) (E3): 0.24	Analyses: TAL metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1145	6.38	0.897	>1000	1.54	19.13	-47	—	—	—

Sample Interval 2

Sample ID: ISB-C3-GW-21-25	Sample Time: 1020	Depth Interval of Screen: 21-25
Well Volume		
A. Well Depth (ft): 25	D. Well Volume (~~ft~~ gal): 0.0103	Volume Removed: 1 gal
B. Depth to Water (ft): 7.15	E. Well Volume (gal) C*D): 0.18	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 17.85	F. Three Well Volumes (gal) (E3): 0.55	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1020	6.29	0.140	>1000	0.55	17.58	-60	—	—	—

Sample Interval 3

Sample ID: ISB-C3-GW-31-35	Sample Time: 1010	Depth Interval of Screen: 31-35
Well Volume		
A. Well Depth (ft): 35	D. Well Volume (~~ft~~ gal): 0.0103	Volume Removed: 1.5 gal
B. Depth to Water (ft): 7.15	E. Well Volume (gal) C*D): 0.29	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 27.85	F. Three Well Volumes (gal) (E3): 0.86	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1010	~~6.32~~ CD 5.92	~~0.313~~ 0.256	>1000	2.39	18.02	21	—	—	—

Sample Interval 4

Sample ID: ISB-C3-GW-41-45	Sample Time: 0955	Depth Interval of Screen: 41-45
Well Volume		
A. Well Depth (ft): 45	D. Well Volume (ft): 0.0103	Volume Removed: 2 gal
B. Depth to Water (ft): 7.15	E. Well Volume (gal) C*D): 0.39	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 37.85	F. Three Well Volumes (gal) (E3): 1.17	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0955	5.32	0.313	583	4.86	18.89	152	—	—	—

COMMENTS & OBSERVATIONS:

Additional ~~bo~~ bottleware for interval 21-25 for sample ISB-GW-FD-04-05232024.

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: 1SB-D1	EA Personnel: LBL, MB	Client: NYSDEC
Location: school ball field	Sample Date: 5/8/24	Weather: 61°F, cloudy
Sounding Method: Heron Skinny	Measurement Ref: Ground Surf.	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: 1SB-D1-GW-11-15	Sample Time: 1415	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft): —	Volume Removed: 1.0
B. Depth to Water (ft): 4.25'	E. Well Volume (gal) C*D): 0.110	Pump Type: Wattera
C. Liquid Depth (ft) (A-B): 10.75'	F. Three Well Volumes (gal) (E3): 0.33	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1416	6.68	0.179	>1000	1.65	17.25	-88	4.25	0.3	6.0

Sample Interval 2

Sample ID: 1SB-D1-GW-21-25	Sample Time: 13:55	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft): —	Volume Removed: 1.5 gal
B. Depth to Water (ft): 4.25'	E. Well Volume (gal) C*D): 0.215	Pump Type: Wattera
C. Liquid Depth (ft) (A-B): 20.75	F. Three Well Volumes (gal) (E3): 0.645	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1358	6.35	0.303	>1000	2.64	17.26	42	4.25	0.3	5.0

Sample Interval 3

Sample ID: 1SB-D1-GW-31-35	Sample Time: 1346	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35'	D. Well Volume (ft): 1340	Volume Removed: 1.5 gal
B. Depth to Water (ft): 4.25'	E. Well Volume (gal) C*D): 0.314	Pump Type: Wattera
C. Liquid Depth (ft) (A-B): 30.75'	F. Three Well Volumes (gal) (E3): 0.942	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
~~1440~~ 1345 ~~1445~~	6.17	0.379	>1000	10.98	17.14	65	4.25	0.3	3.5

Sample Interval 4

Sample ID: 1SB-D1-GW-41-45	Sample Time: 13:30	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45'	D. Well Volume (ft): —	Volume Removed: 2.0 gal
B. Depth to Water (ft): 4.25'	E. Well Volume (gal) C*D): 0.416	Pump Type: Wattera
C. Liquid Depth (ft) (A-B): 40.75	F. Three Well Volumes (gal) (E3): 1.25	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1329	6.36	0.289	>1000	8.81	17.50	-3	4.25	0.3	7.5

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-D1	EA Personnel: C. Derrick, H. Young	Client: NYSDEC (152033)
Location: Dzus Fastener Site Beach Middle School Field	Sample Date: 6/5/2024	Weather: 69°F, cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-D1-GW-4-8	Sample Time: 1120	Depth Interval of Screen: 4-8

Well Volume

A. Well Depth (ft): 8	D. Well Volume (ft): 0.003	Volume Removed: 0.25 gal
B. Depth to Water (ft): 4.25	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra Pump
C. Liquid Depth (ft) (A-B): 3.75	F. Three Well Volumes (gal) (E3): 0.12	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1120	6.67	0.185	1000+	0.52	19.30	-1	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-D2	EA Personnel: LBL, MB	Client: NYSDEC
Location: school ball field	Sample Date: 5/8/24	Weather: 59°F, clouds
Sounding Method: Heron Skinny	Measurement Ref: GS	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-D2-11-15	Sample Time: 10:25	Depth Interval of Screen: 11-15' bgs
Well Volume		
A. Well Depth (ft): 15'	D. Well Volume (ft): —	Volume Removed: 1.5 gal
B. Depth to Water (ft): 3.5	E. Well Volume (gal) C*D): 0.117	Pump Type: Watera
C. Liquid Depth (ft) (A-B): 11.5	F. Three Well Volumes (gal) (E3): 0.351	Analyses: TAL Metals (tot. + dis)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1011	6.70	0.206	>1000	2.62	16.34	-45	3.5	0.3	2.5

Sample Interval 2

Sample ID: ISB-D2-21-25	Sample Time: 09:55	Depth Interval of Screen: 21-25' bgs
Well Volume		
A. Well Depth (ft): 25'	D. Well Volume (ft): —	Volume Removed: 1.5 gal
B. Depth to Water (ft): 3.5'	E. Well Volume (gal) C*D): 0.219	Pump Type: Watera
C. Liquid Depth (ft) (A-B): 21.5'	F. Three Well Volumes (gal) (E3): 0.657	Analyses: TAL Metals (tot. + dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0957	6.34	0.276	>1000	2.14	16.40	13	3.5	0.3	6.5

Sample Interval 3

Sample ID: ISB-D2-31-35	Sample Time: 09:30	Depth Interval of Screen: 31-35' bgs
Well Volume		
A. Well Depth (ft): 35'	D. Well Volume (ft): —	Volume Removed: 1.5 gal
B. Depth to Water (ft): 3.5'	E. Well Volume (gal) C*D): 0.321	Pump Type: Watera
C. Liquid Depth (ft) (A-B): 31.5'	F. Three Well Volumes (gal) (E3): 0.963	Analyses: TAL Metals (tot. + dis)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0935	5.63	0.408	>1000	0.16	15.94	-97	3.5	0.3	4.0

Sample Interval 4

Sample ID: ISB-D2-41-45	Sample Time: 0810	Depth Interval of Screen: ~~3~~ 41-45' bgs
Well Volume		
A. Well Depth (ft): 45'	D. Well Volume (ft): —	Volume Removed: 2.0 gal
B. Depth to Water (ft): 3.5'	E. Well Volume (gal) C*D): 0.423	Pump Type: Watera
C. Liquid Depth (ft) (A-B): 41.5	F. Three Well Volumes (gal) (E3): 1.27	Analyses: TAL Metals (tot. + dis)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0816	5.63	0.468	>1000	0.16	15.94	-97	3.5	0.3	2.5

COMMENTS & OBSERVATIONS:

casing height = 1.83 ft   MS/MSD @ 41-45' bgs interval

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-D2	EA Personnel: C. Dernickle, H. Young	Client: NYSDEC (152033)
Location: Dzus Fastener Site Beach Middle School Field	Sample Date: 6/5/2024	Weather: 68°F, cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-D2-GW-3.5-7.5	Sample Time: 1046	Depth Interval of Screen: 3.5-7.5

Well Volume

A. Well Depth (ft): 7.5	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 3.50	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 4.00	F. Three Well Volumes (gal) (E3): 0.12	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1046	6.50	0.195	>1000	0.00	19.69	-50	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

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IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-D3	EA Personnel: LBL, MB, HW	Client: NYSDEC
Location: school ball field	Sample Date: 5/7/24	Weather: 65°F, sun
Sounding Method: Heron Skinny Dipper	Measurement Ref: ground surf.	Well Diameter (in): 0.5"

Sample Interval 1

Sample ID: ISB-D3-GW-11-15	Sample Time:	Depth Interval of Screen: 11-15' bgs

Well Volume

A. Well Depth (ft): 15'	D. Well Volume (ft):	Volume Removed: 0.5 gal
B. Depth to Water (ft): 3.5'	E. Well Volume (gal) C*D): 0.153	Pump Type: Watterra
C. Liquid Depth (ft) (A-B): 11.5	F. Three Well Volumes (gal) (E3): 0.459	Analyses: TAL Metals (Tot + Dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1114	6.59	0.323	>1000	0.89	22.80	-1		0.25	4.5

Sample Interval 2

Sample ID: ISB-D3-GW-21-25	Sample Time: 10:55	Depth Interval of Screen: 21-25' bgs

Well Volume

A. Well Depth (ft): 25'	D. Well Volume (ft):	Volume Removed: 1 gal
B. Depth to Water (ft): 3.5'	E. Well Volume (gal) C*D): 0.255	Pump Type: Watterra
C. Liquid Depth (ft) (A-B): 21.5	F. Three Well Volumes (gal) (E3): 0.765	Analyses: TAL Metals (Tot. + Dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1055	6.34	0.295	624		20.11	59		0.25	3.5

Sample Interval 3

Sample ID: ISB-D3-GW-31-35	Sample Time: 1035	Depth Interval of Screen: 31-35' bgs

Well Volume

A. Well Depth (ft): 35	D. Well Volume (ft):	Volume Removed: 1.25 gal
B. Depth to Water (ft): 3.5	E. Well Volume (gal) C*D): 0.357	Pump Type: Watterra
C. Liquid Depth (ft) (A-B): 31.5	F. Three Well Volumes (gal) (E3): 1.070	Analyses: TAL Metals (Tot.+Dis.)

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1039 ~~1059~~	6.21	0.417	>1000	2.08	19.43	58		0.25	2.5 GAL

Sample Interval 4

Sample ID: ISB-D3-GW-41-45	Sample Time: 1011	Depth Interval of Screen: 41-45' bgs

Well Volume

A. Well Depth (ft): 45	D. Well Volume (ft):	Volume Removed: 1.5 gal
B. Depth to Water (ft): 3.5	E. Well Volume (gal) C*D): 0.459	Pump Type: Watterra
C. Liquid Depth (ft) (A-B): 41.5	F. Three Well Volumes (gal) (E3): 1.377	Analyses: TAL Metals (Tot. + Diss.)

Water Quality Parameters

Time (hrs) MB	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1011 ~~1010~~	6.12	0.368	>1000	0.83	18.39	-5	3.5	0.25	1.5 GAL

COMMENTS & OBSERVATIONS:

EA Engineering, P.C. and Its Affiliate EA Science and Technology

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

IN-SITU GROUNDWATER SAMPLING FORM

Boring I.D.: ISB-D3	EA Personnel: C. Derrick, M. Young	Client: NYSDEC (152033)
Location: Dzus Fastener Site Beach Middle School Field	Sample Date: 6/5/2024	Weather: 68°F, cloudy
Sounding Method: N/A	Measurement Ref: grade	Well Diameter (in): 0.5

Sample Interval 1

Sample ID: ISB-D3-GW-3.5-7.5	Sample Time: 1013	Depth Interval of Screen: 3.5-7.5
Well Volume		
A. Well Depth (ft): 7.5	D. Well Volume (ft): 0.0103	Volume Removed: 0.25 gal
B. Depth to Water (ft): 3.5	E. Well Volume (gal) C*D): 0.04	Pump Type: Waterra pump
C. Liquid Depth (ft) (A-B): 4.00	F. Three Well Volumes (gal) (E3): 0.12	Analyses: TAL Metals

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1013	6.79	0.495	1000+	6.45	20.09	-29	—	—	—

Sample Interval 2

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 3

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

Sample Interval 4

Sample ID:	Sample Time:	Depth Interval of Screen:
Well Volume		
A. Well Depth (ft):	D. Well Volume (ft):	Volume Removed:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Analyses:

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)

COMMENTS & OBSERVATIONS:

TOA

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

1) MACRO BORING TO 40'

DATE ~~[illegible]~~ 5/6/24 Monday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK NYSDEC [illegible] (152033), 400 Union Blvd [illegible] NY

JOB DESCRIPTION Drilling & Groundwater Sampling Services as per 4/25/24 bid, project #[illegible]

MATERIALS

(1) Hole
(1) bags bentonite
(1) [illegible]
(1) bags sand
(—) Borehole abandonment per ft
(—) [illegible]
(1) Drums

EQUIPMENT NYS DEC 7822DT [illegible] truck

NL

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Pedersen			
R McGarrity			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0700 TIME OFF SITE 1100

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

7611

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

BACKFILL AS DIRECTED BY PM ON SITE

DATE 5/7/24 Tuesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK US Fastener Co (152033), 425 Union Blvd, W. Islip NY

JOB DESCRIPTION Soil boring + Groundwater Sampling Services as per 1/22/24 bid project NLL02515

MATERIALS (1) Inches/Crew | (6) Mats each

(—) Crew per 11 (Borehole abandonment)

(—) Drums | 2) MACRO BORING TO 40'

(—) Bags Pellets | 1) VERTICAL PROFILE BORING

(2) Bags Sand

EQUIPMENT B.L. Box 7800T R.L. truck

NL

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Pedersen			
K McGuinty			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE 1430

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

TBA

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

ALL WORK PERFORMED AS DIRECTED BY CONSULTANT ON SITE

DAILY JOB REPORT

1) MACRO BORING TO 40'
2) VERTICAL PROFILE BORINGS TO 45'

DATE 5/8/24 Wednesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Dzus Fastener Co (152033) 425 Union Blvd W. Islip NY

JOB DESCRIPTION Soil borings & Groundwater sampling Services as per 4/23/24 bid, project # 16.0515

MATERIALS (1) Probe screen (6) Mats each
(—) Borehole abandonment grout
(—) Drums
(—) Bag Peton
(—) Bag Sand

EQUIPMENT MB Box 78ANT MG Box
NL

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Patterson			
K McGuirty			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE 1500

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

78A

LAND, AIR, WATER
ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

WORK PERFORMED AS DIRECTED BY CONSULTANT ON SITE

DATE 5/19/24 Thursday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Lewis Fastener Co. (152133), 425 Union Blvd W. Islip NY

JOB DESCRIPTION Soil boring + Groundwater sampling services as per 4/23/24 bid - project #EA0515

MATERIALS (1) Probe + Crew (6) Hours each

(—) Borehole abandonment grout

(—) Drums 2) MACRO BORINGS TO 40'

(—) bags Bolen 1) VERTICAL PROFILE BORING

(—) bags Sand TO 45'

EQUIPMENT AMS Rig 7822DT ... truck

NL

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Pedersen			
~~[illegible]~~			
C Pedersen			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

Lincoln B Henry McCormick
Boil of
EA on site

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

DATE ~~5/13/24 Monday~~ 5/14/24 Tuesday

CUSTOMER En Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK [illegible] (C0(B2683) 1095 Union Blvd W Islip

JOB DESCRIPTION Soil Boring & Groundwater Sampling Services as per [illegible] Project # [illegible]

MATERIALS (1) [illegible] (0) bags Sand

( ) [illegible] (0) [illegible]

(0) [illegible] abandonment [illegible]

(1) [illegible]

(1) bags patch

EQUIPMENT [illegible] Box 78[illegible] [illegible] truck

PERSONNEL	TOTAL HOURS	PERSONNEL B-4	TOTAL HOURS
K McGunty		(1) 40' Soil [illegible] Macro	
J Neuhaus		(1) [illegible] sample [illegible]	
	B5	(1) 40' Soil [illegible] Macro	
		[illegible]	
		(1) 40' Soil [illegible] Macro	

B-4

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED OPERATIONS CONCLUDED

TIME ON SITE 0700 TIME OFF SITE

NO. OF DISPOSAL LOADS X

SUBSISTENCE X

APPROVED [signature]

CUSTOMER REPRESENTATIVE

RAIN All DAY Lincoln EA Engineering on site 78A

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

DATE 5/15/24 Wednesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Residence (C-152-3) 425 [illegible] Islip NY

JOB DESCRIPTION Soil boring & Groundwater Sampling services as per [illegible] project #160518

MATERIALS (1) [illegible] (0) bags Sand

(1) [illegible] (0) [illegible]

(0) [illegible]

(0) Drum

(1) [illegible]

EQUIPMENT [illegible] Box 78A159 [illegible] Box

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
K McCarthy		(1) GW water Sample	—
J [illegible]		A-4	
		(1) 40' macro Soil	
		[illegible] 13A [illegible]	
		(1) 40' macro Soil	A-5
		(1) GW water Sample	

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0545 OPERATIONS CONCLUDED

TIME ON SITE 700 TIME OFF SITE

NO. OF DISPOSAL LOADS X

SUBSISTENCE X

APPROVED [signature]
CUSTOMER REPRESENTATIVE

50°-60° [illegible]
OVERCAST AFTERNOON

78A
236

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934
(631) 874-2112 FAX (631) 874-4547

Lincoln on site - AM
Hank on site All Day

DAILY JOB REPORT

DATE 5/16/04 Thursday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Dzus Fastener Co (152033) 425 Union Blvd W. Islip NY

JOB DESCRIPTION Soil boring + Groundwater Sampling Services as per 1/23/04 bid. project # 1162515

(0) Hats each

MATERIALS (1) Probe Crew
(0) borehole abandonment pulls
(0) Drums
(1) bags Halen
(0) bags Sand

EQUIPMENT 11 18 Box 7820ST, Ala truck

NO LOGS needed Per [illegible] - EA. Drove All 1 Box 6606S

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
		(1) Site water Samples	
K McGearty			
J Neuhaus		(1) 40 Soil Box 6 Macro	
		A-	
		(1) 40' Soil Box 6 Macro	

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED

OPERATIONS CONCLUDED 1645

TIME ON SITE 0700

TIME OFF SITE 1500

NO. OF DISPOSAL LOADS X

SUBSISTENCE X

N/C

APPROVED [signature]
CUSTOMER REPRESENTATIVE

Overcast 60°

75A

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934
(631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

DATE 5/17/24 Friday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK [illegible] (150033) 435 [illegible] Blvd W Islip NY

JOB DESCRIPTION Soil boring + Groundwater sampling services as per 1/30/24 bid project #1150315

MATERIALS (1) Rig + Crew (1) [illegible] Patch
(0) [illegible] (0) Mats
(0) Vehicle Decontamination pad
(1) Drums
(0) bags Sand

EQUIPMENT ~~[illegible]~~ [illegible] M5 Rig

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
K McInerney		(1) Set of water Samples	
J Neuhaus		A-3	
		(1) 40' Soil Boring [illegible]	
		(1) Set of [illegible] Samples A-3	
		(1) Set of water Samples	
		A-1	

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED

OPERATIONS CONCLUDED

TIME ON SITE 0700

TIME OFF SITE

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

95A-15

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

2) MACRO BORINGS TO 40'
2) VERTICAL SAMPLE BORINGS TO 4[illegible]

DATE 5/20/24 Monday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Dzus Fastener Co (152033) 425 Union Blvd W Islip NY

JOB DESCRIPTION Soil boring + Groundwater sampling services as per 1/23/24 bid - project #16058.15

MATERIALS (1) Plow + Crew (—) bgs Sand
(—) bentonite amendment [illegible] (—) [illegible] each
(—) CT
(—) Drums
(1) bgs Patch

EQUIPMENT Rig Rig Roll Box
NL

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Pederson			
J Neuhaus			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE 1630

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

15/288

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

2) MACRO BORINGS TO 40
2) VERTICAL PROFILE TO 25'

DATE 5/2[illegible]/04 Tuesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK [illegible] (152033) 425 [illegible]

JOB DESCRIPTION Soil Boring + Groundwater Sampling Services as per [illegible] Bid Project # [illegible]

MATERIALS (1) Probe + Crew (—) Mob each
(—) [illegible] Cement per ft
(—) Drums
(—) Bags Sand
(1) Bags Patch

EQUIPMENT [illegible] Rig [illegible]
N/C

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Pedersen			
J [illegible]			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED 1730

TIME ON SITE 0630 TIME OFF SITE 1600

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

N15
1292

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

2) MACRO BRINGS TO 40'
2) 1 VERTICAL PROFILE TO 45'

DAILY JOB REPORT

DATE ~~5/21/24 Tuesday~~ 5/22/24 Wednesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Dzus Fastener Co (152033) 425 Union Blvd W. Islip NY

JOB DESCRIPTION Soil borings + Groundwater Sampling Services per 1/23/24 bid Project N160515

MATERIALS (1) Mobe Crew (—) Hats packs

(—) Concrete Abandonment pads

(1 + ½) Drum

(1) bags Patch

(—) bags Sand

EQUIPMENT DPS rig Ab Box

N/C

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
Sikorski			
Shemmans			

TOTAL MEN ON JOB 2men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE 1530

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

#77 239

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

2) MACRO TO 40'
3) VERTICAL PROFILE TO 45'

DATE 5/24/24 Friday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Dzus Fastener Co (152033) 425 Union Blvd W. Islip NY

JOB DESCRIPTION Soil boring + Groundwater Sampling services as per 4/23/24 bid. project #1002515

MATERIALS (1) Probe + Crew (—) bags sand
(—) core (—) Mats each
(—) borehole abandonment grout
(—) Drums
(—) bag Patch

EQUIPMENT A15 Rig Tool Box
NL

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
S Pedersen			
J Neubauer			

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE

NO. OF DISPOSAL LOADS

SUBSISTENCE

APPROVED [signature]
CUSTOMER REPRESENTATIVE

A 7&13

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

DATE 6/4/24 Tuesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Zeus Fastener Co (152033) 4155 Union Blvd W. Islip NY

JOB DESCRIPTION Soil boring + Groundwater Sampling Services as per 4/3/24 bid + Project #16015.15

MATERIALS (1) Probe + Core

(—) borehole abandonment per ft (—) Mats each

(0) Drums

(—) bgs Patch

(—) bgs Sand

EQUIPMENT MG Box AL Box Mats

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
K McGauty		2 - 40' macro soil bor	(6)
J Neuhaus		SB-B6 & B7	
		2 sets of water samples	
		B-6 B-7	
		2 7'-11' water samples	
		B-5 B-4	

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED ______ OPERATIONS CONCLUDED ______

TIME ON SITE 0700 TIME OFF SITE ______

NO. OF DISPOSAL LOADS Y

SUBSISTENCE X

APPROVED [signature]
CUSTOMER REPRESENTATIVE

Overcast 75°

EA Crew onsite
Cassie Derrick
Haley Young

TJB

LAND, AIR, WATER ENVIRONMENTAL SERVICES, INC.

32 CHICHESTER AVE. PO BOX 372 CENTER MORICHES, NY 11934 (631) 874-2112 FAX (631) 874-4547

DAILY JOB REPORT

DATE 6/5/24 Wednesday

CUSTOMER EA Engineering

BILLING ADDRESS Syracuse NY

LOCATION OF WORK Dzus Fastener Co (152033) 425 Union Blvd W Islip NY

JOB DESCRIPTION Soil borings + Groundwater Sampling services as per 1/23/24 bid - project # 1602515

MATERIALS (1) Probe Crew (6) Mats each
(0) Borehole Abandonment each
(0) Drums
(0) Bags Patch
(0) Bags Sand

EQUIPMENT [illegible] Box [illegible] [illegible] Box

PERSONNEL	TOTAL HOURS	PERSONNEL	TOTAL HOURS
K McGeorty		Water Sample/E	
J Newhams		D-1 D-2 D-3	
		B-1 B-2 B-3	

TOTAL MEN ON JOB 2 men

DAILY OPERATIONS COMMENCED 0530 OPERATIONS CONCLUDED

TIME ON SITE 0630 TIME OFF SITE

NO. OF DISPOSAL LOADS X

SUBSISTENCE X

APPROVED [signature]
CUSTOMER REPRESENTATIVE

SITE ENTRY AND EXIT LOG

Project/Site: Dzus Fastener

Project No.: 11002515

Date	Name	Representing	Time In	Time Out
5/6	Lincoln Backman-Lowe	EA	6:50	11:30
	Hilary Williams	EA	6:50	11:30
	Matt Boyle	EA	6:50	11:30
	Kevin McGourty	LAWES	6:50	10:40
	Scott Pederson	LAWES	6:50	10:40
5/7	Lincoln Backman-Lowe	EA	6:20	14:30
	Hilary Williams	EA	6:20	13:00
	Matt Boyle	EA	6:20	14:30
	Kevin McGourty	LAWES	6:20	14:30
	Scott Pederson	LAWES	6:20	14:30
5/8	Lincoln Backman-Lowe	EA	0615	15:00
	Matt Boyle	EA	6:15	15:00
	Scott Pederson	LAWES	6:15	15:00
	Kevin McGourty	LAWES	6:15	15:00
5/9	Lincoln Backman-Lowe	EA	6:15	14:30
	Matt Boyle	EA	6:15	14:30
	Scott Pederson	LAWES	6:15	14:30
	Carl Pederson	LAWES	6:15	14:30
5/10	Lincoln Backman-Lowe	EA	6:20	14:00
	Matt Boyle	EA	6:20	14:00
	Scott Pederson	LAWES	6:20	14:00
	Carl Pederson	LAWES	6:20	14:00

SITE ENTRY AND EXIT LOG

Project/Site: Dzus Fastener Co., Inc.

Project No.: 16025-15-00-CP

Date	Name	Representing	Time In	Time Out
5/14/24	Lincoln Backman-Lowe	EA	0650	1630
	Henry McCormick	EA	0650	1630
	Kevin McCourty	LAWES	0650	1630
	Jason Neuhaus	LAWES	0650	1630
5/15/24	Lincoln Backman-Lowe	EA	0630	1640
	Henry McCormick	EA	0630	1640
	Kevin McCourty	LAWES	0700	1640
	Jason Neuhaus	LAWES	0700	1640
5/16/24	Lincoln Backman-Lowe	EA	0700	0900
	Henry McCormick	EA	0700	1430
	Kevin McCourty	LAWES	0700	1430
	Jason Neuhaus	LAWES	0700	1430
5/17/24	Lincoln Backman-Lowe	EA	0640	1430
	Henry McCormick	EA	0640	1430
	Kevin McCourty	LAWES	0640	1430
	Jason Neuhaus	LAWES	0640	1430
5/20/24	Lincoln Backman-Lowe	EA	0630	1630
	Cassie Derrick	EA	0630	1630
	Scott Pederson	LAWES	0640	1630
	Jason Neuhaus	LAWES	0640	1630
5/21/24	Lincoln Backman-Lowe	EA	0630	1545
	Cassie Derrick	EA	0630	1545
	Scott Pederson	LAWES	0640	1545
	Jason Neuhaus	LAWES	0640	1545
5/22/24	Lincoln Backman-Lowe	EA	0630	1535
	Cassie Derrick	EA	0630	1535
	Scott Pederson	LAWES	0630	1535
	Jason Neuhaus	LAWES	0630	1535
5/23/24	Lincoln Backman-Lowe	EA	0630	1630
	Cassie Derrick	EA	0630	1630
	Scott Pederson	LAWES	0645	1630
	Jason Neuhaus	LAWES	0645	1630
5/24/24	Lincoln Backman-Lowe	EA	0630	1430
	Cassie Derrick	EA	0630	1430
	Scott Pederson	LAWES	0630	1430
	Jason Neuhaus	LAWES	0630	1430

SITE ENTRY AND EXIT LOG

Project/Site: Dzus Fasteners

Project No.: 152033

Date	Name	Representing	Time In	Time Out
6-4-24	Kevin M'Gourty	LAWES	7	1545
6-4-24	Jason Neuhaus	LAWES	7	1545
6-4-24	Haley Young	EA	7	1615
6-4-24	Cassie Demicz	EA	7	1615
6-5-24	Kevin M'Gourty	LAWES	0630	1300
6-5-24	Jason Neuhaus	LAWES	0630	1300
6-5-24	Haley Young	EA	0630	1300
6-5-24	Cassie Dercrz	EA	0630	1300

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY
Address: 333 W. Washington St, STE 300, Syracuse, NY
Billing Information: Accounts Payable
Report To: hwilliams@eaest.com
Email To: NorthEastAP@EAEST.com
Copy To:
Site Collection Info/Address: Dzus Fastener / 425 Union Blvd
Customer Project Name/Number: DW_Dzus Fastener Co. Inc. / 16025-15-00-CP
State: NY / County/City: West Islip
Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET
Phone: 716-364-7282
Email:
Site/Facility ID #: Dzus Fastener / 1602515
Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):
Purchase Order # : PO 3124
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature):
Turnaround Date Required: Standard 10-Day TAT / CAT B / Level IV
Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ______________ [ ] Hold: ________________
Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
Field Filtered (if applicable): [X] Yes [ ] No
Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved								
ISB-D1-GW-11-15	GW	G	8-May	14:15				2	X	X								
ISB-D1-GW-21-25	GW	G	8-May	13:55				2	X	X								
ISB-D1-GW-31-35	GW	G	8-May	13:40				2	X	X								
ISB-D1-GW-41-45	GW	G	8-May	13:30				2	X	X								
ISB-D2-GW-11-15	GW	G	8-May	10:25				2	X	X								
ISB-D2-GW-21-25	GW	G	8-May	9:55				2	X	X								
ISB-D2-GW-31-35	GW	G	8-May	9:30				2	X	X								
ISB-D2-GW-41-45	GW	G	8-May	8:10				6	X	X								
ISB-D3-GW-11-15	GW	G	7-May	11:13				2	X	X								
ISB-D3-GW-21-25	GW	G	7-May	10:55				2	X	X								

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ___________________
Sample pH Acceptable         Y N NA
pH Strips: ___________________
Sulfide Present              Y N NA
Lead Acetate Strips: ___________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Additional volume included with sample ISB-D2-GW-41-45, to be used for MS/MSD analysis.

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA
SHORT HOLDS PRESENT (<72 hours) : Y N N/A
Lab Tracking #:
Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ________________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY

Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip

Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[ ] Yes [ ] No

Sample Disposal:
[ ] Dispose as appropriate [ ] Return
[ ] Archive: ____________
[ ] Hold: ______________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved
ISB-D3-GW-31-35	GW	G	7-May	10:35				2	X	X
ISB-D3-GW-41-45	GW	G	7-May	10:11				2	X	X
ISB-B3-GW-11-15	GW	G	9-May					2	X	X
ISB-B3-GW-21-25	GW	G	9-May					2	X	X
ISB-B3-GW-31-35	GW	G	9-May					2	X	X
ISB-B3-GW-41-45	GW	G	9-May					2	X	X
ISB-GW-FD-01-05092024	GW	G	7-May	--				2	X	X
Equipment Blank - 1	GW	G	8-May	7:20				1	X	
Equipment Blank - 2	GW	G	9-May					1	X	
Equipment Blank - 3	GW	G	9-May					1	X	

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ________________
Sample pH Acceptable         Y N NA
pH Strips: ________________
Sulfide Present              Y N NA
Lead Acetate Strips: ________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

```
LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ______________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
				Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY
Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ____________
[ ] Hold: ______________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved
ISB-B1-GW-11-15	GW	G	5/10/2024	12:30				2	X	X
ISB-B1-GW-21-25	GW	G	5/10/2024	12:15				2	X	X
ISB-B1-GW-31-35	GW	G	5/10/2024	12:00				2	X	X
ISB-B1-GW-41-45	GW	G	5/10/2024	11:45				2	X	X
ISB-B4-GW-11-15	GW	G	5/14/2024	11:45				2	X	X
ISB-B4-GW-21-25	GW	G	5/14/2024	11:20				2	X	X
ISB-B4-GW-31-35	GW	G	5/14/2024	11:05				2	X	X
ISB-B4-GW-41-45	GW	G	5/14/2024	10:40				2	X	X
ISB-A4-GW-11-15	GW	G	5/15/2024	9:25				2	X	X
ISB-A4-GW-21-25	GW	G	5/15/2024	8:55				2	X	X

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: _________________
Sample pH Acceptable         Y N NA
pH Strips: _________________
Sulfide Present              Y N NA
Lead Acetate Strips: ________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 4

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY
Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ____________
[ ] Hold: ______________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved	Total Organic Carbon	Sulfate EPA 300.0	Nitrate-N EPA 300.0	Nitrite-N EPA 300.0	Chloride EPA 300.0				Lab Sample # / Comments
ISB-A4-GW-31-35	GW	G	5/15/2024	8:40				2	X	X									
ISB-A4-GW-41-45	GW	G	5/15/2024	8:20				2	X	X									
ISB-A5-GW-11-15	GW	G	5/15/2024	15:50				2	X	X									
ISB-A5-GW-21-25	GW	G	5/15/2024	15:25				5	X	X	X	X	X	X	X				
ISB-A5-GW-31-35	GW	G	5/15/2024	15:10				2	X	X									
ISB-A5-GW-41-45	GW	G	5/15/2024	14:55				2	X	X									
ISB-B5-GW-11-15	GW	G	5/16/2024	9:10				2	X	X									
ISB-B5-GW-21-25	GW	G	5/16/2024	8:45				2	X	X									
ISB-B5-GW-31-35	GW	G	5/16/2024	8:15				15	X	X	X	X	X	X	X				
ISB-B5-GW-41-45	GW	G	5/16/2024	8:00				2	X	X									

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact  Y N NA
Custody Signatures Present    Y N NA
Collector Signature Present   Y N NA
Bottles Intact                Y N NA
Correct Bottles               Y N NA
Sufficient Volume             Y N NA
Samples Received on Ice       Y N NA
VOA - Headspace Acceptable    Y N NA
USDA Regulated Soils          Y N NA
Samples in Holding Time       Y N NA
Residual Chlorine Present     Y N NA
Cl Strips: ________________
Sample pH Acceptable          Y N NA
pH Strips: ________________
Sulfide Present               Y N NA
Lead Acetate Strips: ________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:
Additional volume included with sample ISB-B5-GW-31-35, to be used for MS/MSD analysis.

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

```
Temp Blank Received:  Y   N   NA
Therm ID#:  _____________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
				Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 4

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ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY
Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip
Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ______________
[ ] Hold: ________________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved	Total Organic Carbon	Sulfate EPA 300.0	Nitrate-N EPA 300.0	Nitrite-N EPA 300.0	Chloride EPA 300.0			Lab Sample # / Comments
ISB-B2-GW-11-15	GW	G	5/10/2024	9:00				2	X	X								
ISB-B2-GW-21-25	GW	G	5/10/2024	8:40				2	X	X								
ISB-B2-GW-31-35	GW	G	5/10/2024	8:25				2	X	X								
ISB-B2-GW-41-45	GW	G	5/10/2024	8:10				2	X	X								
ISB-GW-FD-02-05152024	GW	G	5/15/2024	--				5	X	X	X	X	X	X	X			
EQUIPMENT BLANK-4	GW	G	5/10/2024	11:05				1	X									
EQUIPMENT BLANK-5	GW	G	5/14/2024	16:25				1	X									
EQUIPMENT BLANK-6	GW	G	5/15/2024	16:25				1	X									
EQUIPMENT BLANK-7	GW	G	5/16/2024	16:20				1	X									
ISB-SO-FD-01-05062024	SL	C	5/15/2024	--				2	x		x							

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ______________________
Sample pH Acceptable Y N NA
pH Strips: ______________________
Sulfide Present Y N NA
Lead Acetate Strips: ___________

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ________________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
				Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 4

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ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY

Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip

Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ______________
[ ] Hold: ________________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	Total Organic Carbon	Grain Size
MW-9-SO-5-10	SL	C	5/6/2024	8:40				3	X	X	X
MW-9-SO-19-20	SL	C	5/6/2024	8:50				3	X	X	X
MW-13A-SO-0-5	SL	C	5/15/2024	10:45				3	X	X	X
MW-13A-SO-14-15	SL	C	5/15/2024	10:55				3	X	X	X
ISB-D3-SO-0-3.5	SL	C	5/7/2024	8:10				7	X	X	X
ISB-D3-SO-14-15	SL	C	5/7/2024	8:30				3	X	X	X
ISB-B5-SO-7-8	SL	C	5/14/2024	12:50				3	X	X	X
ISB-B5-SO-17-18	SL	C	5/14/2024	12:55				3	X	X	X
ISO-A5-SO-8-10	SL	C	5/15/2024	13:00				3	X	X	X
ISB-A5-SO-19-20	SL	C	5/15/2024	13:10				3	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: ____________________
Sample pH Acceptable Y N NA
pH Strips: ____________________
Sulfide Present Y N NA
Lead Acetate Strips: ___________

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Additional volume included with sample ISB-D3-SO-0-3.5, to be used for MS/MSD analysis.

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ________________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
				MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 4 of: 4

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY
Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY County/City: West Islip Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ______________
[ ] Hold: ________________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No
Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved
ISB-A3-GW-41-45	GW	G	5/17/2024	7:55				2	X	X
ISB-A3-GW-31-35	GW	G	5/17/2024	8:10				2	X	X
ISB-A3-GW-21-25	GW	G	5/17/2024	8:30				2	X	X
ISB-A3-GW-11-15	GW	G	5/17/2024	8:45				2	X	X
ISB-A2-GW-41-45	GW	G	5/17/2024	11:25				2	X	X
ISB-A2-GW-31-35	GW	G	5/17/2024	11:40				2	X	X
ISB-A2-GW-21-25	GW	G	5/17/2024	11:55				2	X	X
ISB-A2-GW-11-15	GW	G	5/17/2024	12:10				2	X	X
ISB-A1-GW-41-45	GW	G	5/17/2024	13:05				2	X	X
ISB-A1-GW-31-35	GW	G	5/17/2024	13:20				2	X	X

Analyses

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ____________________
Sample pH Acceptable         Y N NA
pH Strips: ____________________
Sulfide Present              Y N NA
Lead Acetate Strips: __________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

```
LAB Sample Temperature Info:
Temp Blank Received:  Y   N   NA
Therm ID#: ________________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 6

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY
Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY County/City: West Islip Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ____________
[ ] Hold: ______________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved
ISB-A1-GW-21-25	GW	G	5/17/2024	13:40				2	X	X
ISB-A1-GW-11-15	GW	G	5/17/2024	13:55				2	X	X
ISB-C2-GW-41-45	GW	G	5/20/2024	9:55				2	X	X
ISB-C2-GW-31-35	GW	G	5/20/2024	10:20				2	X	X
ISB-C2-GW-21-25	GW	G	5/20/2024	10:45				2	X	X
ISB-C2-GW-11-15	GW	G	5/20/2024	11:05				2	X	X
ISB-C1-GW-41-45	GW	G	5/20/2024	14:30				6	X	X
ISB-C1-GW-31-35	GW	G	5/20/2024	14:50				2	X	X
ISB-C1-GW-21-25	GW	G	5/20/2024	15:10				2	X	X
ISB-C1-GW-11-15	GW	G	5/20/2024	15:25				2	X	X

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ____________________
Sample pH Acceptable         Y N NA
pH Strips: ____________________
Sulfide Present              Y N NA
Lead Acetate Strips: __________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Additional volume included with sample ISB-C1-GW-41-45, to be used for MS/MSD analysis.

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

```
LAB Sample Temperature Info:
Temp Blank Received:  Y  N  NA
Therm ID#: ______________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2
of: 6

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ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY	Billing Information: Accounts Payable
Address: 333 W. Washington St, STE 300, Syracuse, NY	
Report To: hwilliams@eaest.com	Email To: NorthEastAP@EAEST.com
Copy To:	Site Collection Info/Address: Dzus Fastener / 425 Union Blvd
Customer Project Name/Number: DW_Dzus Fastener Co. Inc. / 16025-15-00-CP	State: NY / County/City: West Islip / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282 Email:	Site/Facility ID #: Dzus Fastener / 1602515	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order # : PO 3124 Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10-Day TAT / CAT B / Level IV	Immediately Packed on Ice: [x] Yes [ ] No
Sample Disposal: [x] Dispose as appropriate [ ] Return [ ] Archive: ______________ [ ] Hold: ________________	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______________

Lab Profile/Line:

Lab Sample Receipt Checklist:
- Custody Seals Present/Intact Y N NA
- Custody Signatures Present Y N NA
- Collector Signature Present Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VOA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- Cl Strips: ______________________
- Sample pH Acceptable Y N NA
- pH Strips: ______________________
- Sulfide Present Y N NA
- Lead Acetate Strips: ___________

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved	Total Organic Carbon	Sulfate EPA 300.0	Nitrate-N EPA 300.0	Nitrite-N EPA 300.0	Chloride EPA 300.0			Lab Sample # / Comments
ISB-A6-GW-41-45	GW	G	5/21/2024	10:10				2	X	X								
ISB-A6-GW-31-35	GW	G	5/21/2024	10:28				2	X	X								
ISB-A6-GW-21-25	GW	G	5/21/2024	10:40				2	X	X								
ISB-A6-GW-11-15	GW	G	5/21/2024	11:00				2	X	X								
ISB-A7-GW-41-45	GW	G	5/21/2024	14:30				2	X	X								
ISB-A7-GW-31-35	GW	G	5/21/2024	14:50				2	X	X								
ISB-A7-GW-21-25	GW	G	5/21/2024	15:00				2	X	X								
ISB-A7-GW-11-15	GW	G	5/21/2024	15:15				2	X	X								
ISB-A8-GW-41-45	GW	G	5/22/2024	9:50				2	X	X								
ISB-A8-GW-31-35	GW	G	5/22/2024	10:15				2	X	X								

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
- Temp Blank Received: Y N NA
- Therm ID#: ________________
- Cooler 1 Temp Upon Receipt: __oC
- Cooler 1 Therm Corr. Factor:___oC
- Cooler 1 Corrected Temp: _____oC
- Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 6

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY

Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[x] Yes [ ] No

Sample Disposal:
[x] Dispose as appropriate [ ] Return
[ ] Archive: ____________
[ ] Hold: ______________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

Analyses

Lab Profile/Line:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved
ISB-A8-GW-21-25	GW	G	5/22/2024	10:30				2	X	X
ISB-A8-GW-11-15	GW	G	5/22/2024	10:45				2	X	X
ISB-A9-GW-41-45	GW	G	5/22/2024	14:00				2	X	X
ISB-A9-GW-31-35	GW	G	5/22/2024	14:18				2	X	X
ISB-A9-GW-21-25	GW	G	5/22/2024	14:30				2	X	X
ISB-A9-GW-11-15	GW	G	5/22/2024	14:50				2	X	X
ISB-C3-GW-41-45	GW	G	5/23/2024					2	X	X
ISB-C3-GW-31-35	GW	G	5/23/2024					2	X	X
ISB-C3-GW-21-25	GW	G	5/23/2024					2	X	X
ISB-C3-GW-11-25	GW	G	5/23/2024					2	X	X

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ________________
Sample pH Acceptable         Y N NA
pH Strips: ________________
Sulfide Present              Y N NA
Lead Acetate Strips: ________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

```
LAB Sample Temperature Info:
Temp Blank Received:  Y   N   NA
Therm ID#: ______________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s):
YES / NO

Page: 4
of: 6

CHAIN-OF-CUSTODY Analytical Request Document

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY	Billing Information: Accounts Payable
Address: 333 W. Washington St, STE 300, Syracuse, NY	
Report To: hwilliams@eaest.com	Email To: NorthEastAP@EAEST.com
Copy To:	Site Collection Info/Address: Dzus Fastener / 425 Union Blvd
Customer Project Name/Number: DW_Dzus Fastener Co. Inc. / 16025-15-00-CP	State: NY / County/City: West Islip / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282 Email:	Site/Facility ID #: Dzus Fastener / 1602515	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	Purchase Order # : PO 3124 Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10-Day TAT / CAT B / Level IV	Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: ____________ [ ] Hold: ______________	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [X] Yes [ ] No Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved
ISB-A10-GW-41-45	GW	G	5/23/2024					2	X	X
ISB-A10-GW-31-35	GW	G	5/23/2024					2	X	X
ISB-A10-GW-21-25	GW	G	5/23/2024					2	X	X
ISB-A10-GW-11-15	GW	G	5/23/2024					2	X	X
ISB-GW-FD-03-05202024	GW	G	5/20/2024	--				2	X	X
ISB-GW-FD-04-05222024	GW	G	5/22/2024	--				2	X	X
EQUIPMENT BLANK-8	GW	G	5/17/2024	14:10				1	X	
EQUIPMENT BLANK-9	GW	G	5/20/2024	15:45				1	X	
EQUIPMENT BLANK-10	GW	G	5/21/2024	15:30				1	X	
EQUIPMENT BLANK-11	GW	G	5/22/2024	15:10				1	X	

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ________________
Sample pH Acceptable         Y N NA
pH Strips: ________________
Sulfide Present              Y N NA
Lead Acetate Strips: __________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:

```
Temp Blank Received:  Y   N   NA
Therm ID#: ______________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor:___oC
Cooler 1 Corrected Temp: _____oC
Comments:
```

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 5 of: 6

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: NYDEC_EA Engineering, Science & Tech. - NY

Address: 333 W. Washington St, STE 300, Syracuse, NY

Billing Information:
Accounts Payable

Report To:
hwilliams@eaest.com

Email To:
NorthEastAP@EAEST.com

Copy To:

Site Collection Info/Address:
Dzus Fastener / 425 Union Blvd

Customer Project Name/Number:
DW_Dzus Fastener Co. Inc. / 16025-15-00-CP

State: NY / County/City: West Islip / Time Zone Collected: [ ]PT [ ]MT [ ]CT [ ]ET

Phone: 716-364-7282
Email:

Site/Facility ID #:
Dzus Fastener / 1602515

Compliance Monitoring?
[ ] Yes [ ] No

Collected By (print):

Purchase Order # : PO 3124
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required:
Standard 10-Day TAT / CAT B / Level IV

Immediately Packed on Ice:
[ ] Yes [ ] No

Sample Disposal:
[ ] Dispose as appropriate [ ] Return
[ ] Archive: ______________
[ ] Hold: ________________

Rush:
[ ] Same Day [ ] Next Day
[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day
(Expedite Charges Apply)

Field Filtered (if applicable):
[X] Yes [ ] No

Analysis: Diss.Metals (6010)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ______________

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	TAL 23 Metals 6010 (incl. Hg) Total	TAL 23 Metals 6010 (incl. Hg) Dissolved									Lab Sample # / Comments
EQUIPMENT BLANK-12	GW	G	5/23/2024					1	X										

Lab Profile/Line:

```
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present   Y N NA
Collector Signature Present  Y N NA
Bottles Intact               Y N NA
Correct Bottles              Y N NA
Sufficient Volume            Y N NA
Samples Received on Ice      Y N NA
VOA - Headspace Acceptable   Y N NA
USDA Regulated Soils         Y N NA
Samples in Holding Time      Y N NA
Residual Chlorine Present    Y N NA
Cl Strips: ____________________
Sample pH Acceptable         Y N NA
pH Strips: ____________________
Sulfide Present              Y N NA
Lead Acetate Strips: __________

LAB USE ONLY:
Lab Sample # / Comments:
```

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours) : Y N N/A

Packing Material Used:

Lab Tracking #:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ______________
Cooler 1 Temp Upon Receipt: __oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 6 of: 6

Pace Analytical®

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	EA Engineering
Address:	333 W. Washington Street, STE 300 Syracuse, NY
Phone:	(315) 530-5824
Project Name:	Dzus Fastener
Project Location:	West Islip, NY (425 Union Blvd.)
Project Number:	1602515
Project Manager:	Hilary Williams
Pace Analytical Quote Name/Number	
Invoice Recipient:	
Sampled By:	C. Derrick

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: CAT B Deliverable
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #: haleyyoung@eaest.com

ANALYSIS REQUESTED

	TAL23 Metals (incl-Hg) 6010 Total	TAL23 Metals (incl. Hg) 6010 Dissolved
# of Containers	12	11
Preservation Code	N	N
Container Code	P	P

Dissolved Metals Samples
☒ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	TAL23 Metals Total	TAL23 Metals Dissolved
	ISB-B9-GW-41-45	5/24/24	1005		X	GW		X	X
	ISB-B9-GW-31-35	↓	1020		X	GW		X	X
	ISB-B9-GW-21-25		1030		X	GW		X	X
	ISB-B9-GW-11-15		1050		X	GW		X	X
	ISB-B8-GW-41-45		1305		X	GW		X	X
	ISB-B8-GW-31-35		1320		X	GW		X	X
	ISB-B8-GW-21-25		1335		X	GW		X	X
	ISB-B8-GW-11-15		1350		X	GW		X	X
	Equipment Blank-13		1415		X	GW		X	
	ISB-GW-FD-05-05242024		—		X	GW		X	X

Comments:
CAT B Deliverable Requested.
Additional volume included with ISB-B9-GW-41-45 to be used for MS/MSD.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Haley Young	6/6/24 1345
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Other:

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

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Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:
Address:
Phone:
Project Name:
Project Location:
Project Number: SEE PAGE 1
Project Manager:
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: C. Derrick

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: CAT B Deliverable
CLP Like Data Pkg Required: ☐
Email To: hwilliams@eaest.com
Fax To #: haleyyoung@eaest.com

	TAL 23 Metals 6010 Total (incl. Hg)	TAL 23 Metals 6010 Dissolved (incl. Hg)
# of Containers	10	10
Preservation Code	N	N
Container Code	P	P

ANALYSIS REQUESTED

Dissolved Metals Samples
☒ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	TAL 23 Metals 6010 Total (incl. Hg)	TAL 23 Metals 6010 Dissolved (incl. Hg)
	ISB-B6-GW-41-45	6/4/24	0950		X	GW		X	X
	ISB-B6-GW-31-35		1008		X	GW		X	X
	ISB-B6-GW-21-25		1025		X	GW		X	X
	ISB-B6-GW-11-15		1038		X	GW		X	X
	ISB-B7-GW-41-45		1313		X	GW		X	X
	ISB-B7-GW-31-35		1328		X	GW		X	X
	ISB-B7-GW-21-25		1343		X	GW		X	X
	ISB-B7-GW-11-15		1353		X	GW		X	X
	ISB-B5-GW-7-11		1446		X	GW		X	X
	ISB-B4-GW-7-11		1517		X	GW		X	X

Comments: CAT B Deliverable Requested

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

¹ Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

² Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

³ Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time:
Haley Young	6/6/24 1345
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Pace Analytical

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

https://www.pacelabs.com/

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant:
Consultant Address:	
Consultant Phone:	
Callout Project Name:	
Project Location:	SEE PAGE 1
Callout Number:	
Site/Spill Number:	
Project Manager:	
Pace Analytical Quote Name/Number:	
Invoice Recipient:	
Sampled By: C. Derrick	

Requested Turnaround Time

DEC Standard 30-calendar day

Due Date:

Rush (Prior Approval Required)

1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☒

Data Delivery

Format: PDF ☒ EXCEL ☒

Other: CAT B Deliverable

CLP Like (Level 4) Data Pkg Required: ☐

Email To: hwilliams@eaest.com haleyyoung@eaest.com

Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

	[redacted]	TAL23 Metals 6010 (incl Hg) Total	TAL23 Metals 6010 (incl Hg) Dissolved
# of Containers		1	9
Preservation Code		N	N
Container Code		P	P

Dissolved Metals Samples
☒ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	[redacted]	TAL23 Metals 6010 (incl Hg) Total	TAL23 Metals 6010 (incl Hg) Dissolved
	Equipment Blank-14	6/4/24	1530		X	GW			X	
	ISB-B1-GW-4-8	6/5/24	0804		X	GW			X	X
	ISB-B2-GW-4-8		0906		X	GW			X	X
	ISB-B3-GW-3.5-7.5		0936		X	GW			X	X
	ISB-D3-GW-3.5-7.5		1013		X	GW			X	X
	ISB-D2-GW-3.5-7.5		1046		X	GW			X	X
	ISB-D1-GW-4-8		1120		X	GW			X	X
	ISB-GW-FD-06-06052024		—		X	GW			X	X
	EquipmentBlank-15		1210		X	GW			X	

Comments: CAT B Deliverable Requested
Additional Volume included with ISB-B1-GW-4-8 to be used for MS/MSD

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Haley Young	6/6/24 1345
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Other:

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

Project Entity
☒ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/06/2024**

NYSDEC
Division of Environmental Remediation

Contract No.

DEC PM – James Kruegler

Engineer PM – Hilary Williams

Engineer Insp. – L. Backman-Lowe

Site Location: West Islip, NY

Weather Conditions				
General Description	Cloudy	AM	Sunny	PM
Temperature	52°F	AM	62°F	PM
Wind	2 mph S	AM	2 mph S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0650	Departed Site:	1130

(0650) EA & LAWES onsite
(0700) Tailgate health & safety meeting held, discussion of scope of work with drilling subcontractor.
(0705) Mobilize to OU1 to set up for MW-9-SB soil sampling location.
(0730) LAWES begins hand-clearing MW-9-SB to 5 feet below grade surface (bgs).
(0800) LAWES begins advancing MW-9-SB boring with Geoprobe.
(0840) EA collects soil sample MW-9-SB-5-10 for TAL Metals, TOC, and grain size.
(0850) EA collects soil sample MW-9-SB-19-20 for TAL Metals, TOC, and grain size.
(0945) Drilling to 40 feet bgs complete, rig is turned off.
(0950) LAWES begins backfilling MW-9-SB soil boring with native material.
(1005) Backfill complete and borehole is patched with cold-patch asphalt.
(1020) EA & LAWES mobilize to 'laydown' area behind Stop & Shop plaza to stage drum.
(1040) LAWES offsite after discussing scope of work for 05/07/2024.
(1045) EA marks out ISB sampling locations along transects A, B, and C.
(1130) EA offsite for day; continued coordination with DEC and plaza property owners for access agreements, and Beach Street Middle School for access to transect D.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	4.5
Matt Boyle	EA	Scientist	4.5
Hilary Williams	EA	Scientist	4.5
Scott Pederson	LAWES	Driller	4
Kevin McGourty	LAWES	Driller	4

Equipment Description	Contractor/Vendor	Quantity	Used
Ford Expedition	EA	1	Yes
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes

Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Robert Monahan	Island Associates

Project Schedule Comments

EA plans to start work on 05/07/2024 on the Beach Street Middle School Property. Once access agreements have been signed by Captree Plaza & Stop and Shop Plaza, work will begin on transects A, B, and C.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

Property owner, Robert Monahan, stopped by to discuss scope of work with EA to confirm whether other drilling activities were scheduled at the OU1 parcel. EA confirmed that MW-9-SB was the sole location to be completed on the OU1 parcel and that the rest of the investigative work would not interfere with further development activities (paving).

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)
Photos attached in separate photo log.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/06/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to <u>any</u> of 1-4 above: • If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☒
Comments: None.		

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒

<u>Comments:</u> None.

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Drilling subcontractor, LAWES, prepares to begin soil boring at MW-9-SB location on OU1 property.

MW-9-SB soil core from 5-10' bgs.
Soil sample collected from this interval.

Dzus Fastener Site, West Islip, New York

MW-9-SB soil core from 15-20’ bgs. Soil sample collected from the 19-20’ bgs interval.

EA field personnel characterizing the top 5’ of soil from MW-9-SB location.

Dzus Fastener Site, West Islip, New York

MW-9-SB location (circled), patched with asphalt after completion of the soil boring.

NYSDEC Division of Environmental Remediation				**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY				
Weather Conditions				
General Description	Cloudy	AM	Sunny	PM
Temperature	56°F	AM	82°F	PM
Wind	4 mph S	AM	4 mph S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0620	Departed Site:	1430

(0620) EA onsite
(0625) Calibrate Horiba U-52
(0625) LAWES onsite
(0700) Begin tracking rig with mats out to ISB-D3 location
(0750) LAWES begins hand-clearing ISB-D3 location
(0800) LAWES begins advancing ISB-D3 location with Geoprobe
(0810) Collect soil sample ISB-D3-0-3.5 for TAL Metals, TOC, grain size
(0830) Collect soil sample ISB-D3-14-15 for TAL Metals, TOC, grain size
(0920) Borehole advanced to 40', LAWES backfills hole with site materials
(0935) Step out 5' from borehole, begin advancing SP16 rods to 45' bgs
(1000) Begin purging for sample ISB-D3-GW-41-45 for TAL Metals (total and dissolved)
(1011) Collect GW sample ISB-D3-GW-41-45 for TAL Metals (total and dissolved)
(1025) Rods and tubing pulled up to 35' bgs
(1030) Begin purging for sample ISB-D3-31-35 for TAL Metals (total and dissolved)
(1035) Collect GW sample ISB-D3-31-35 for TAL Metals (total and dissolved)
(1038) Rods and tubing pulled up to 25' bgs
(1045) Begin purging for sample ISB-D3-21-25
(1055) Collect GW sample ISB-D3-21-25 for TAL Metals (total and dissolved)
(1100) Rods and tubing pulled up to 15' bgs
(1105) Begin purging for sample ISB-D3-11-15
(1113) Collect GW sample ISB-D3-11-15 for TAL Metals (total and dissolved)
(1115) Break down rig, move to ISB-D2 location
(1130) LAWES begins hand clearing ISB-D2 location
(1145) LAWES begins advancing ISB-D2 location with geoprobe
(1320) Boring ISB-D2 location advanced to depth
(1325) LAWES breaks down rig and moves to corner of ball field
(1355) Demobilize from Beach Street Middle School
(1415) Meet at drum staging area behind stop and shop to transfer IDW to drum, discuss viability of ISB-B transect being moved to north side of middle school fence
(1430) EA and LAWES offsite

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X

Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	8
Matt Boyle	EA	Scientist	8
Hilary Williams	EA	Scientist	5
Scott Pederson	LAWES	Driller	8
Kevin McGourty	LAWES	Driller	8

Equipment Description	Contractor/Vendor	Quantity	Used
Ford Expedition	EA	1	Yes
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
Beach Street Middle School custodian	Beach Street Middle School

Project Schedule Comments

EA plans to start work on 05/08/2024 on the Beach Street Middle School Property. ISB-D2 location has been logged, will be sampled for groundwater in the morning of Wednesday, May 8. Once access agreements have been signed by Captree Plaza & Stop and Shop Plaza, work will begin on transects A, B, and C.

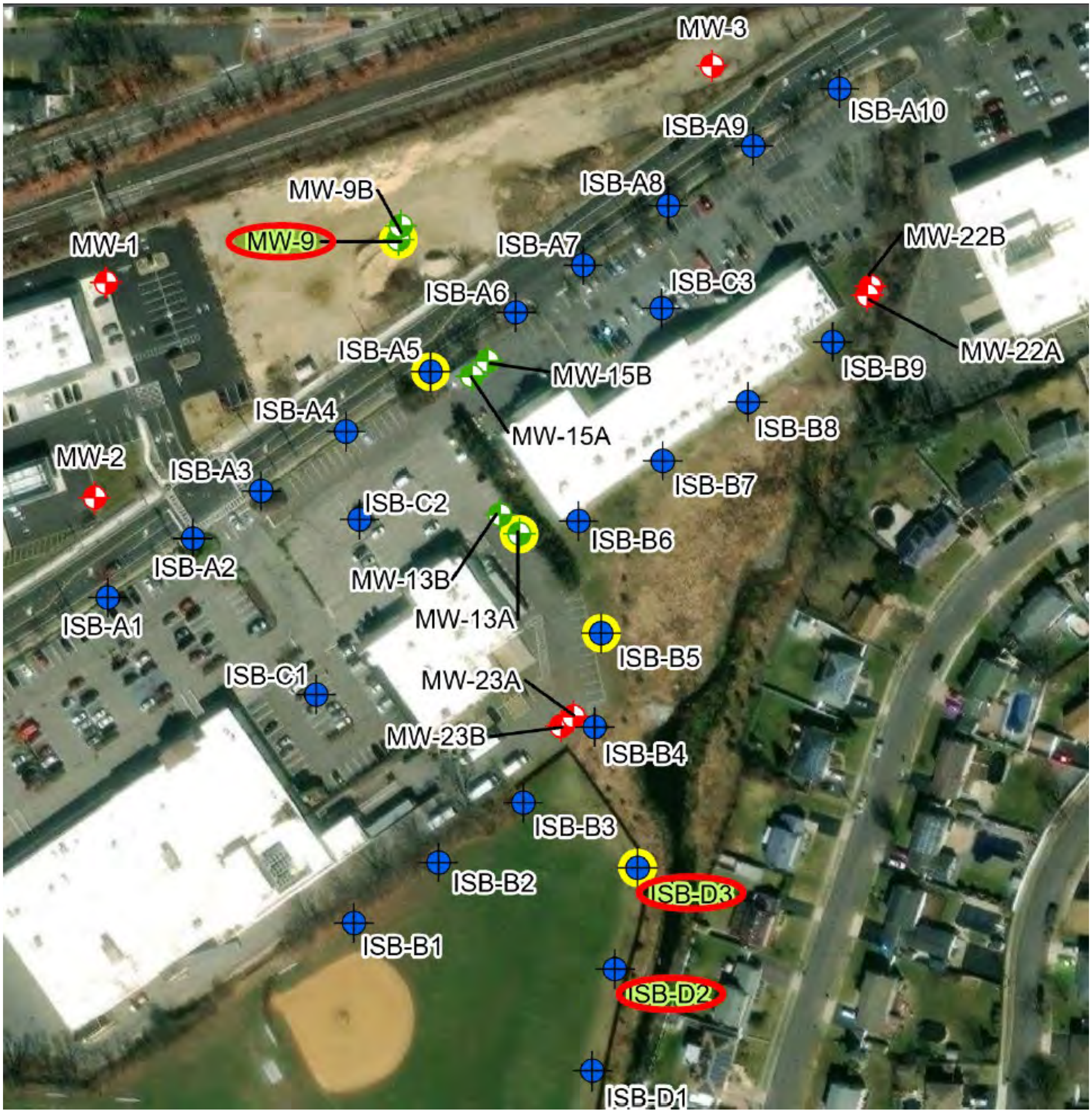
Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

Beach Street Middle School custodian was called to unlock gates accessing a parking area closer to D3 and D2 locations.

Include (insert) figures with markups showing location of work and job progress



Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
Photos attached in separate photo log.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/07/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Drilling subcontractor, LAWES, prepares to mobilize the Geoprobe to transect D locations using mats to protect the ball field grass.

EA collecting unfiltered in-situ groundwater grab sample at sampling location ISB-D3.

Dzus Fastener Site, West Islip, New York

Unfiltered (left) and filtered (right) groundwater samples from ISB-D3 sampling location.

Dzus Fastener Site, West Islip, New York

Geoprobe storage area in corner of Beach Street Middle School ball field.

Dzus Fastener OU 1- 6 SM, Site No. 152033

Date: 05/08/2024

NYSDEC Division of Environmental Remediation				**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY				
Weather Conditions				
General Description	Cloudy	AM	Cloudy	PM
Temperature	57°F	AM	68°F	PM
Wind	4 mph S	AM	7 mph S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0615	Departed Site:	1500

(0615) EA onsite
(0620) LAWES onsite, tailgate health and safety meeting
(0630) Calibrate Horiba U-52
(0635) Mobilize equipment to ISB-02 location
(0655) Mobilize Geoprobe rig to ISB-02 location
(0710) Decontaminate SP16 screen for EQB-1, for 05/07/2024
(0720) Begin advancing SP-16 rods to 45' bgs, collect EQB-1
(0745) Begin purging for sample ISB-D2-GW-41-45
(0810) Collect sample ISB-D2-GW-41-45 for TAL metals (total and dissolved), split with MS/MSD
(0820) Rods and tubing pulled up to 45' bgs
(0825) Begin purging for sample ISB-D2-GW-31-35
(0827) Purge stopped, rig turned off due to thunder, will resume 30 minutes after last strike
(0920) Resume purging for sample ISB-D2-GW-31-35
(0930) Collect GW sample ISB-D2-31-35 for TAL metals (total and dissolved)
(0935) Pull up rods and tubing to 25' bgs
(0940) Begin purging for sample ISB-D2-21-25
(0955) Collect sample ISB-D2-21-25 for TAL metals (total and dissolved)
(1000) Pull up rods and tubing to 15' bgs
(1010) Begin purging for sample ISB-D2-11-15
(1025) Collect GW sample ISB-D2-11-15 for TAL metals (total and dissolved)
(1030) Break down Geoprobe rig and mobilize to IDB-D1 location
(1045) LAWES begins hand-clearing ISB-D1 boring hole
(1055) LAWES begins advancing ISB-D1 boring hole
(1245) Boring ISB-D1 drilled to depth. Offset 5' and begin advancing ISB-16 sampler to 45' bgs
(1312) Begin purging for sample ISB-D1-41-45 for TAL metals (total and dissolved)
(1330) Collect GW sample ISB-D1-41-45 for TAL metals (total and dissolved)
(1333) Pull rods and tubing up to 35' bgs
(1335) Begin purging for sample ISB-D1-31-35
(1340) Collect GW sample ISB-D1-31-35 for TAL metals (total and dissolved)
(1342) Pull up rods and tubing to 25' bgs
(1346) Begin purging for sample ISB-D1-21-25
(1355) Collect GW sample ISB-D1-GW-21-25 for TAL metals (total and dissolved)
(1358) Pull rods and tubing up to 15' bgs and begin purging for sample ISB-D1-GW-11-15
(1415) Collect GW sample ISB-D1-GW-11-15 for TAL metals (total and dissolved)
(1420) Break down set up and rig, mobilize rig to right corner of ball field
(1445) Mobilize to drum staging area to transfer IDW to drum
(1500) EA and LAWES offsite

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	8.75
Matt Boyle	EA	Scientist	8.75
Scott Pederson	LAWES	Driller	8.75
Kevin McGourty	LAWES	Driller	8.75

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

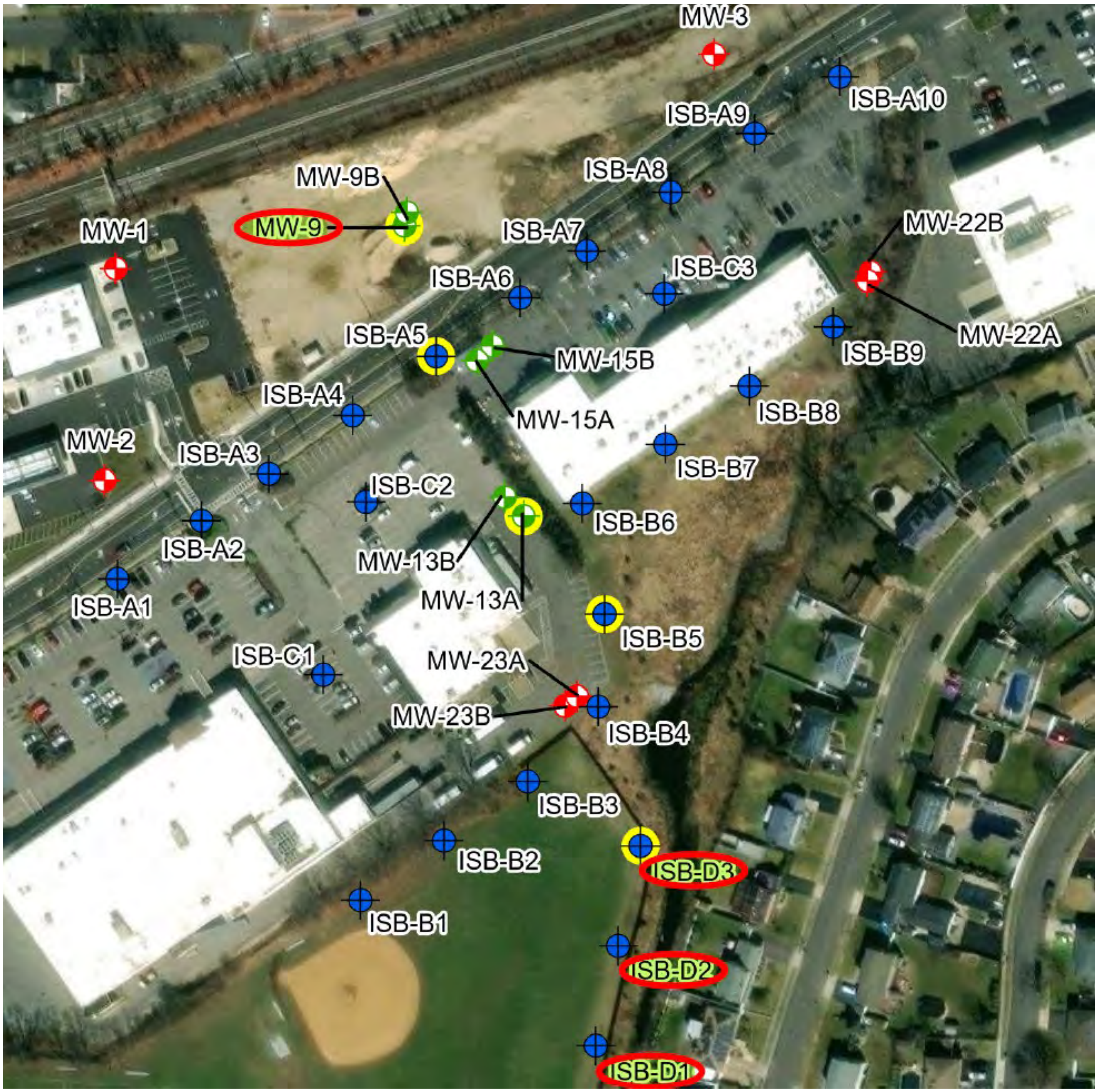
Name	Representing
N/A	

Project Schedule Comments

EA plans to continue work on 05/09/2024 on the Beach Street Middle School Property. Once access agreements have been signed by Captree Plaza & Stop and Shop Plaza, work will begin on transects A, B, and C.

Issues Pending
None.
Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress



Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
Photos attached in separate photo log.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/08/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Geoprobe rig set up to drill borehole at ISB-D1 location.

Drill cuttings from ISB-D1 soil boring, different colored sands.

Dzus Fastener Site, West Islip, New York

SP16 in-situ groundwater sampling set up on Geoprobe rig.

Dzus Fastener Site, West Islip, New York

Geoprobe rig being moved on mats to preserve middle school ball field grass.

DAILY INSPECTION REPORT - No. 004
Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/09/2024**

NYSDEC
Division of Environmental Remediation

Contract No.
DEC PM – James Kruegler
Engineer PM – Hilary Williams
Engineer Insp. – L. Backman-Lowe

Site Location: West Islip, NY

Weather Conditions				
General Description	Cloudy	AM	Cloudy	PM
Temperature	57°F	AM	68°F	PM
Wind	4 mph S	AM	4 mph S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0615	Departed Site:	1430

(0615) EA onsite
(0620) Calibrate Horiba U-52
(0630) LAWES onsite, tailgate health and safety meeting
(0645) Mobilize equipment and supplies to ISB-B3 location
(0710) Mobilize Geoprobe rig to ISB-B3 location
(0715) LAWES begins hand-clearing ISB-B3 borehole
(0730) Decontaminate SP-16 screen and collect EQB-2
(0745) LAWES begins advancing ISB-B3 borehole with Geoprobe
(0915) Boring at ISB-B3 advanced to 40' bgs
(0940) Geoprobe offset 5' to begin advancing SP-16
(0950) SP-16 screen advanced to 45' bgs
(1005) Begin purging for sample ISB-B3-GW-41-45
(1020) Collect GW sample ISB-B3-GW-41-45 for TAL metals (total and dissolved)
(1027) Pull up rods and tubing to 35' bgs
(1032) Begin purging for sample ISB-B3-GW-31-35
(1040) Collect GW sample ISB-B3-GW-31-35 for TAL metals (total and dissolved)
(1050) Pull rods and tubing up to 25' bgs
(1100) Begin purging for sample ISB-B3-GW-21-25
(1110) Collect GW sample ISB-B3-GW-21-25 for TAL metals (total and dissolved)
(1115) Pull rods and tubing up to 15' bgs
(1118) Begin purging for sample ISB-B3-GW-21-25
(1133) Collect GW sample ISB-B3-GW-11-15 for TAL metals (total and dissolved) split with FD-01
(1145) Pull up rods and break down rig, mobilize to ISB-B2 location
(1200) Begin hand-clearing ISB-B2 boring to 5' bgs
(1215) LAWES begins advancing ISB-B2 boring with Geoprobe
(1335) ISB-B2 boring advanced to 40' bgs
(1350) Collect EQB-3
(1352) Break down drill rig and move to corner of ball field
(1415) Mobilize to drum staging area to transfer IDW to drum
(1430) EA and LAWES offsite

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	8.0
Matt Boyle	EA	Scientist	8.0
Scott Pederson	LAWES	Driller	8.0
Carl Pederson	LAWES	Driller	8.0

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments

EA plans to finish work on 05/10/2024 at the Beach Street Middle School Property. Once access agreements have been signed by Captree Plaza & Stop and Shop Plaza, work will begin on transects A, B, and C.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.

None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
Photos attached in separate photo log.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/09/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒

Comments:

None.

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Drilling subcontractor (LAWES) hand-clearing ISB-B3 boring prior to drilling.

5-10' bgs section of soil boring at ISB-B3 location.

Dzus Fastener Site, West Islip, New York

Tracking the Geoprobe rig on mats to ISB-B2 boring location.

20-25' bgs section of soil boring at ISB-B2 boring location.

DAILY INSPECTION REPORT - No. 005

Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/10/2024**

NYSDEC
Division of Environmental Remediation

Contract No.

DEC PM – James Kruegler

Engineer PM – Hilary Williams

Engineer Insp. – L. Backman-Lowe

Site Location: West Islip, NY

Weather Conditions				
General Description	Rain	AM	Rain	PM
Temperature	57°F	AM	61°F	PM
Wind	4 mph S	AM	4 mph S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0620	Departed Site:	1400

(0620) EA onsite.
(0630) LAWES onsite, tailgate health & safety meeting.
(0640) Mobilize equipment & supplies to ISB-B2 location.
(0715) Mobilize Geoprobe rig to ISB-B2 location.
(0735) Begin advancing SP16 to 45' bgs.
(0745) SP16 set at 45' bgs.
(0755) Begin purging for sample ISB-B2-GW-41-45.
(0810) Collect GW sample ISB-B2-GW-41-45 for TAL Metals (total & dissolved).
(0815) Pull up rods and tubing to 35' bgs.
(0818) Begin purging for sample ISB-B2-GW-31-35.
(0825) Collect GW sample ISB-B2-GW-31-35 for TAL Metals (total & dissolved).
(0830) Pull up rods and tubing to 25' bgs.
(0835) Begin purging for sample ISB-B2-GW-21-25.
(0840) Collect GW sample ISB-B2-GW-21-25 for TAL Metals (total & dissolved).
(0842) Pull up rods and tubing to 15' bgs.
(0850) Begin purging for sample ISB-B2-GW-11-15.
(0900) Collect GW sample ISB-B2-GW-11-15 for TAL Metals (total & dissolved).
(0905) Break down Geoprobe rig and mobilize to ISB-B1 location.
(0915) LAWES begins hand-clearing ISB-B1 soil boring.
(0932) LAWES begins advancing ISB-B1 soil boring with Geoprobe.
(1105) ISB-B1 soil boring advanced to 40' bgs. Collect Equipment Blank-4.
(1120) Begin advancing SP16 to 45' bgs.
(1135) Begin purging for sample ISB-B1-GW-41-45.
(1145) Collect GW sample ISB-B1-GW-41-45 for TAL Metals (total & dissolved).
(1147) Pull up rods and tubing to 35' bgs.
(1150) Begin purging for sample ISB-B1-GW-31-35.
(1200) Collect GW sample ISB-B1-GW-31-35 for TAL Metals (total & dissolved).
(1202) Pull up rods and tubing to 25' bgs.
(1205) Begin purging for sample ISB-B1-GW-21-25.
(1215) Collect GW sample ISB-B1-GW-21-25 for TAL Metals (total & dissolved).
(1217) Pull up rods and tubing to 15' bgs.
(1220) Begin purging for sample ISB-B1-GW-11-15.
(1230) Collect GW sample ISB-B1-GW-11-15 for TAL Metals (total & dissolved).
(1232) Pull up rods, break down equipment, mobilize Geoprobe rig to truck.
(1335) Mobilize to 'laydown' area to transfer IDW to drums.
(1400) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	8.0
Matt Boyle	EA	Scientist	8.0
Scott Pederson	LAWES	Driller	8.0
Carl Pederson	LAWES	Driller	8.0

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

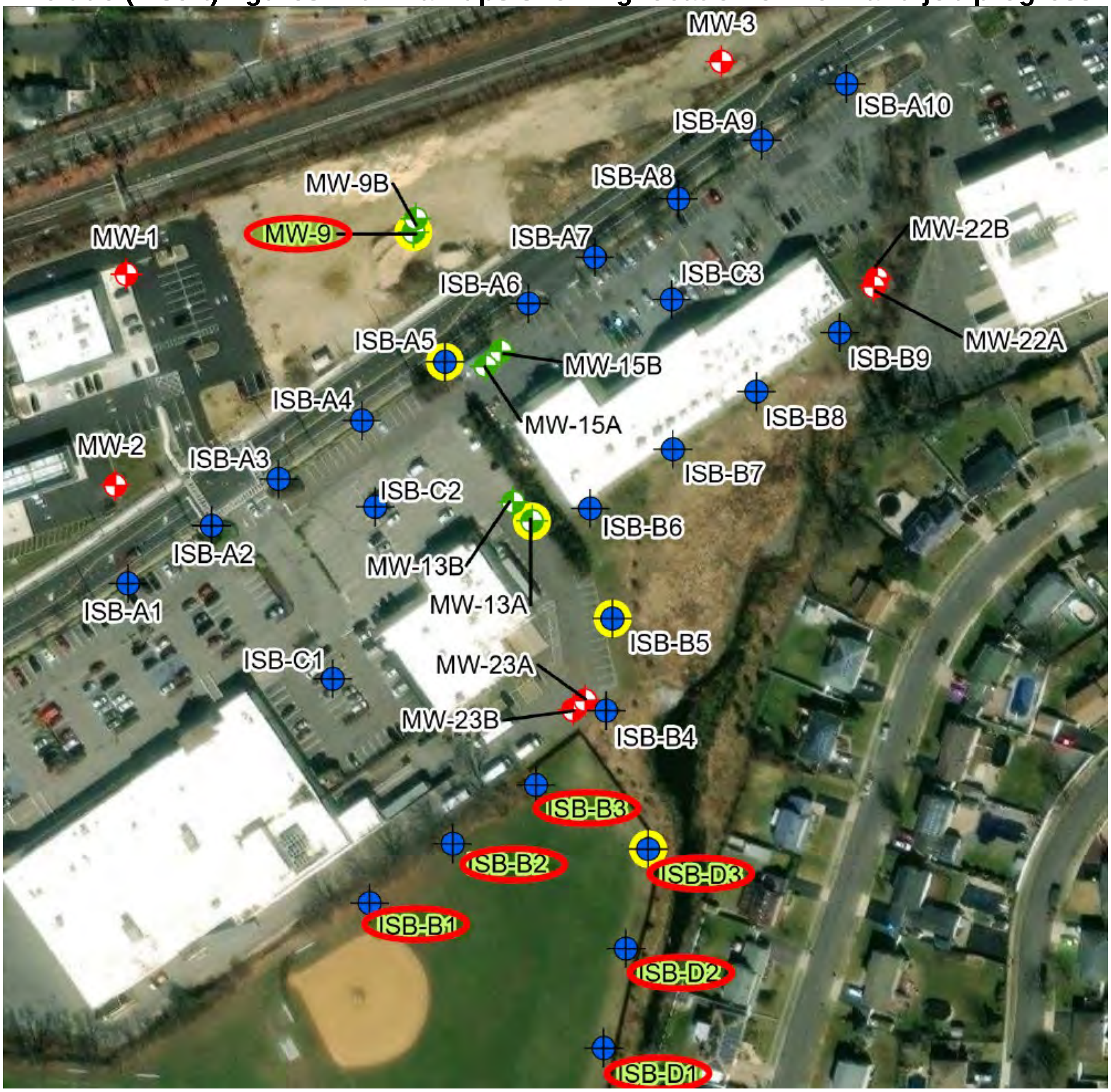
Site Representatives

Name	Representing
N/A	

Project Schedule Comments
EA plans to continue GW PDI work next week, starting Monday, May 13. Work will be done in the Stop & Shop plaza parking lot.

Issues Pending
None.
Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress



Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
No photos attached.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/10/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/14/2024**

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Sunny	AM	Partly Cloudy	PM	
Temperature	55°F	AM	65°F	PM	
Wind	7 mph S	AM	7 mph S	PM	

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0650	Departed Site:	1630

(0650) EA and LAWES onsite, tailgate health & safety meeting.
(0700) Calibrate Horiba U-52, LAWES mobilizes equipment to ISB-B4.
(0720) LAWES begins hand-clearing ISB-B4.
(0830) LAWES begins advancing ISB-B4 boring with Geoprobe rig.
(0915) Rig off for maintenance.
(0918) Rig on, continue drilling.
(0955) ISB-B4 boring advanced to 40' bgs.
(1005) Rig stepped out 5', begin advancing SP16 sampler to 45' bgs.
(1030) Begin purging for sample ISB-B4-GW-41-45.
(1040) Collect GW sample for ISB-B4-GW-41-45 for TAL metals (total & dissolved).
(1045) Pull up rods and tubing to 35' bgs.
(1055) Begin purging for sample ISB-B4-GW-31-35.
(1105) Collect GW sample for ISB-B4-GW-31-35 for TAL metals (total & dissolved).
(1108) Pull up rods and tubing to 25' bgs.
(1112) Begin purging for sample ISB-B4-GW-21-25.
(1120) Collect GW sample for ISB-B4-GW-21-25 for TAL metals (total & dissolved).
(1125) Pull up rods and tubing to 15' bgs.
(1130) Begin purging for sample ISB-B4-GW-11-15.
(1145) Collect GW sample for ISB-B4-GW-11-15 for TAL metals (total & dissolved).
(1150) LAWES backfills ISB-B4, breaks down rig and mobilizes to ISB-B5 location.
(1205) EA begins thermal drone survey, LAWES begins hand-clearing ISB-B5 location.
(1225) LAWES begins advancing ISB-B5 boring with Geoprobe.
(1250) Collect soil sample ISB-B5-SO-7-8 for TAL metals, TOC, and grain-size.
(1255) Collect soil sample ISB-B5-SO-17-18 for TAL metals, TOC, and grain-size.
(1325) ISB-B5 boring driven to 40' bgs, breakdown Geoprobe rig, mobilize to ISB-A location.
(1412) LAWES begins cutting through asphalt at ISB-A4 location.
(1415) LAWES begins hand-clearing ISB-A4 boring location.
(1425) LAWES begins advancing ISB-A4 with Geoprobe.
(1530) Boring ISB-A4 advanced to 40'.
(1545) LAWES backfills ISB-A4 soil boring hole, patches asphalt with cold patch.
(1555) LAWES packs up equipment, transfers waste to drums.
(1630) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X

Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	9.5
Hank McCormick	EA	Geologist	9.5
Jacob Guy	EA	Geologist	1.0
Kevin McCourt	LAWES	Driller	9.5
Jason Neuhaus	LAWES	Driller	9.5

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes
Drone w/Thermal Camera	EA	1	Yest

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments

EA plans to continue GW PDI work tomorrow on transects A and B in the Stop & Shop Plaza parking lot.

Issues Pending

None.

Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
Photo log attached.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/14/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

Dzus Fastener Site, West Islip, New York

Large rip rap pile and sandy silt from top 5’ of ISB-B4 boring.

Dzus Fastener Site, West Islip, New York

EA-operated thermal drone, preparing to collect imagery from Willetts Creek.

EA-operated thermal drone, flying over Willetts Creek.

Dzus Fastener Site, West Islip, New York

LAWES decontaminating drilling steel.

LAWES coring through asphalt at ISB-A4 Location.

Dzus Fastener Site, West Islip, New York

ISB-B5 5-10' bgs.

ISB-B5 7-8' bgs, saturated organic peat-like Material.

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Rain	AM	Rain	PM	
Temperature	55°F	AM	65°F	PM	
Wind	7 mph E	AM	13 mph E	PM	

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1625

(0630) EA onsite
(0635) Clear out and cone off sample locations.
(0640) Calibrate Horiba U-52
(0700) LAWES onsite, begin unloading equipment, mob Geoprobe to ISB-A4.
(0735) Begin advancing SP16 sampler to 45' bgs.
(0810) Begin purging for sample ISB-A4-GW-41-45.
(0820) Collect GW sample ISB-A4-GW-41-45 for TAL metals (total & dissolved).
(0825) Pull up rods and tubing to 35' bgs.
(0831) Begin purging for sample ISB-A4-GW-31-35.
(0840) Collect GW sample ISB-A4-GW-31-35 for TAL metals (total & dissolved).
(0842) Pull up rods and tubing to 25' bgs.
(0845) Begin purging for sample ISB-A4-GW-21-25.
(0855) Collect GW sample ISB-A4-GW-21-25 for TAL metals (total & dissolved).
(0900) Pull up rods and tubing to 15' bgs.
(0910) Begin purging for sample ISB-A4-GW-11-15.
(0925) Collect GW sample ISB-A4-GW-11-15 for TAL metals (total & dissolved).
(0930) Pack equipment, mobilize Geoprobe to MW-13A
(1005) Begin hand-clearing hole near MW-13A, encounter PVC about 3' bgs, backfill hole and step out to new location.
(1020) Begin hand-clearing new hole near MW-13A.
(1030) National grid onsite to help with utility clearance, LAWES begins advancing SB at MW-13A-SB with Geoprobe rig.
(1045) EA collects soil sample MW-13A-SB-0-5 for TAL metals, TOC, and grain size.
(1055) EA collects soil sample MW-13A-SB-14-15 for TAL metals, TOC, and grain size.
(1145) MW-13A-SB advanced to 40' bgs, pack equipment and mobilize to ISB-A5 location.
(1230) LAWES begins hand-clearing ISB-A5 boring.
(1240) LAWES begins advancing ISB-A5 boring with Geoprobe.
(1300) EA collects soil sample ISB-A5-SO-8-10 for TAL metals, TOC, and grain size.
(1310) EA collects soil sample ISB-A5-SO-19-20 for TAL metals, TOC, and grain size.
(1350) ISB-A5 boring advanced to 40' bgs, LAWES backfills borehole.
(1400) LAWES begins advancing SP16 sampler to 45' bgs.
(1423) Begin purging for sample ISB-A5-GW-41-45.
(1455) Collect sample ISB-A5-GW-41-45 for TAL metals (total & dissolved).
(1455) Pull up rods and tubing to 35' bgs.

Summary of work continued:
(1500) Begin purging for sample ISB-A5-GW-31-35.
(1510) Collect sample ISB-A5-GW-31-35 for TAL metals (total & dissolved).
(1510) Pull up rods and tubing to 25' bgs.
(1515) Begin purging for sample ISB-A5-GW-21-25.
(1525) Collect sample ISB-A5-GW-21-25 for TAL metals (total & dissolved), sulfate, nitrite/nitrate, and TOC, split sample with ISB-GW-FD-02-05152024.
(1537) Pull up rods and tubing to 15' bgs.
(1540) Begin purging for sample ISB-A5-GW-11-15.
(1550) Collect sample ISB-A5-GW-11-15 for TAL metals (total & dissolved).
(1555) Pull up SP16, pack equipment, decontaminate SP16 for blank samples.
(1625) Collect EQB-6, transfer IDW to drums, EA and LAWES offsite.

Equipment/Material Tracking

If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	10
Hank McCormick	EA	Geologist	10
Kevin McCourt	LAWES	Driller	9.5
Jason Neuhaus	LAWES	Driller	9.5

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives	
Name	**Representing**
N/A	

Project Schedule Comments
EA plans to continue GW PDI work tomorrow on transects A and B in the Stop & Shop Plaza parking lot.

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
None.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/15/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

DAILY INSPECTION REPORT - No. 008

Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/16/2024**

NYSDEC
Division of Environmental Remediation

Contract No.

DEC PM – James Kruegler

Engineer PM – Hilary Williams

Engineer Insp. – L. Backman-Lowe

Site Location: West Islip, NY

Weather Conditions				
General Description	Rain	AM	Rain	PM
Temperature	60°F	AM	65°F	PM
Wind	17 mph NE	AM	15 mph NE	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0700	Departed Site:	1430

(0700) EA and LAWES onsite
(0710) Mobilize to ISB-B5 location.
(0730) Advance SP16 to 45' bgs.
(0743) Begin purging for ISB-B5-GW-41-45.
(0800) Collect sample ISB-B5-GW-41-45 for TAL metals (total & dissolved).
(0800) Pull up rods and tubing to 35' bgs.
(0805) Begin purging for ISB-B5-GW-31-35.
(0815) Collect sample ISB-B5-GW-31-35 for TAL metals (total & dissolved) and MNA, split sample with MS/MSD.
(0830) Pull up rods and tubing to 25' bgs.
(0835) Begin purging for ISB-B5-GW-21-25.
(0845) Collect sample ISB-B5-GW-21-25 for TAL metals (total & dissolved).
(0850) Pull up rods and tubing to 15' bgs.
(0857) Begin purging for ISB-B5-GW-11-15.
(0910) Collect sample ISB-B5-GW-11-15 for TAL metals (total & dissolved).
(0912) Pack equipment, mobilize Geoprobe to ISB-A3.
(0935) LAWES begins hand-clearing ISB-A3 boring.
(0950) LAWES begins advancing ISB-A3 boring with Geoprobe.
(1100) ISB-A3 boring advanced to 40' bgs, LAWES backfills borehole, packs equipment and mobilize Geoprobe to ISB-A1
(1140) LAWES begins hand-clearing ISB-A1 boring.
(1145) LAWES begins advancing ISB-A1 boring with Geoprobe.
(1210) Rig off for maintenance.
(1215) Rig on, continue drilling.
(1225) Rig off for maintenance.
(1245) Rig on, continue drilling.
(1405) ISB-A1 soil boring advanced to 40' bgs, LAWES backfills borehole.
(1410) Pack equipment, transfer IDW to drums.
(1430) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X

Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	7.5
Hank McCormick	EA	Geologist	7.5
Kevin McCourt	LAWES	Driller	7.5
Jason Neuhaus	LAWES	Driller	7.5

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments

EA plans to continue GW PDI work tomorrow on transects A in the Stop & Shop Plaza parking lot.

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
None.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/16/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒

Comments:

None.

* BART – Best Available Retrofit Technology

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Cloudy	AM	Cloudy	PM	
Temperature	56°F	AM	65°F	PM	
Wind	6 mph NE	AM	12 mph NE	PM	

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0640	Departed Site:	1430

(0640) EA & LAWES onsite, tailgate H&S meeting.
(0650) Place cones on sample locations, calibrate Horiba U-52.
(0700) Mobilize Geoprobe to ISB-A3 location.
(0720) Begin advancing SP16 sampler to 45' bgs.
(0740) Begin purging for sample ISB-A3-GW-41-45.
(0755) Collect sample ISB-A3-GW-41-45 for TAL Metals (total & dissolved).
(0800) Pull up rods & tubing to 35' bgs.
(0805) Begin purging for sample ISB-A3-GW-31-35.
(0810) Collect sample ISB-A3-GW-31-35 for TAL Metals (total & dissolved).
(0815) Pull up rods & tubing to 25' bgs.
(0820) Begin purging for sample ISB-A3-GW-21-25.
(0830) Collect sample ISB-A3-GW-21-25 for TAL Metals (total & dissolved).
(0833) Pull up rods & tubing to 15' bgs.
(0835) Begin purging for sample ISB-A3-GW-11-15.
(0845) Collect sample ISB-A3-GW-11-15 for TAL Metals (total & dissolved).
(0850) Pull up remaining rods, pack equipment, and mobilize to ISB-A2 location.
(0917) LAWES begins hand-clearing ISB-A2 soil boring.
(0935) LAWES begins advancing ISB-A2 soil boring with Geoprobe.
(1040) Boring ISB-A2 advanced to 40' bgs, pull up rods & backfill hole.
(1055) Begin advancing SP16 sampler to 45' bgs.
(1110) Begin purging for sample ISB-A2-GW-41-45.
(1125) Collect sample ISB-A2-GW-41-45 for TAL Metals (total & dissolved).
(1130) Pull up rods & tubing to 35' bgs.
(1132) Begin purging for sample ISB-A2-GW-31-35.
(1140) Collect sample ISB-A2-GW-31-35 for TAL Metals (total & dissolved).
(1143) Pull up rods & tubing to 25' bgs.
(1145) Begin purging for sample ISB-A2-GW-21-25.
(1155) Collect sample ISB-A2-GW-21-25 for TAL Metals (total & dissolved).
(1158) Pull up rods & tubing to 15' bgs.
(1203) Begin purging for sample ISB-A2-GW-11-15.
(1210) Collect sample ISB-A2-GW-11-15 for TAL Metals (total & dissolved).
(1215) Pull up remaining rods, pack equipment, mobilize to ISB-A1 location.
(1230) Begin advancing SP16 sampler to 45' bgs.
(1250) Begin purging for sample ISB-A1-GW-41-45.
(1305) Collect sample ISB-A1-GW-41-45 for TAL Metals (total & dissolved).
(1308) Pull up rods & tubing to 35' bgs.

(1311) Begin purging for sample ISB-A1-GW-31-35.
(1320) Collect sample ISB-A1-GW-31-35 for TAL Metals (total & dissolved).
(1323) Pull up rods & tubing to 25' bgs.
(1328) Begin purging for sample ISB-A1-GW-21-25.
(1340) Collect sample ISB-A1-GW-21-25 for TAL Metals (total & dissolved).
(1342) Pull up rods & tubing to 15' bgs.
(1345) Begin purging for sample ISB-A1-GW-11-15.
(1355) Collect sample ISB-A1-GW-11-15 for TAL Metals (total & dissolved).
(1357) Pull up remaining rods, decontaminate SP16 sampler.
(1410) Collect EQB-8.
(1415) Pack equipment, transfer IDW to drums.
(1430) EA & LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	7.5
Hank McCormick	EA	Geologist	7.5
Kevin McCourt	LAWES	Driller	7.5
Jason Neuhaus	LAWES	Driller	7.5

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

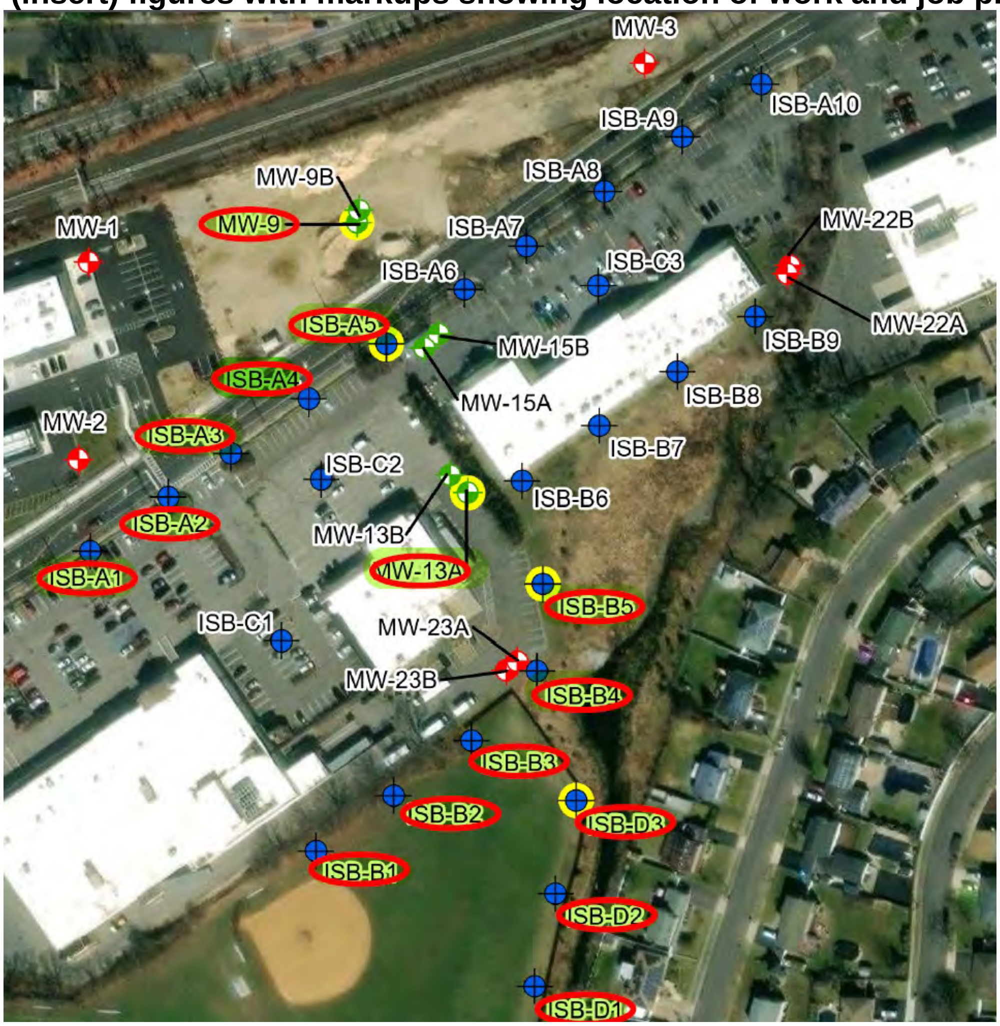
Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	**Representing**
N/A	

Project Schedule Comments
EA plans to continue GW PDI work tomorrow on transects A in the Stop & Shop Plaza parking lot.
Issues Pending
None.
Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress



Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
None.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/17/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

NYSDEC Division of Environmental Remediation				**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY				
Weather Conditions				
General Description	Sunny	AM	Sunny	PM
Temperature	55°F	AM	67°F	PM
Wind	5 mph NE	AM	8 mph NE	PM

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1630

(0630) Lincoln Backman-Lowe and Cassandra Derrick (EA) onsite, calibrate Horiba U-52.
(0640) LAWES onsite, tailgate H&S meeting.
(0645) Mobilize equipment to ISB-C2 location.
(0710) Begin hand-clearing ISB-C2 boring to 5 feet.
(0735) LAWES begins advancing ISB-C2 boring with Geoprobe.
(0900) ISB-C2 boring advanced to 40 feet bgs, backfill hole.
(0915) Begin advancing SP16 sampler to 45 feet.
(0945) Begin purging for sample ISB-C2-GW-41-45.
(0955) Collect sample ISB-C2-41-45 for TAL metals (total and dissolved).
(1005) Pull up rods and tubing to 35 ft bgs.
(1008) Begin purging for sample ISB-C2-GW-31-35.
(1020) Collect sample ISB-C2-31-35 for TAL metals (total and dissolved).
(1033) Pull up rods and tubing to 25 ft bgs.
(1038) Begin purging for sample ISB-C2-GW-21-25.
(1045) Collect sample ISB-C2-21-25 for TAL metals (total and dissolved) split with ISB-GW-FD-03-05202024.
(1052) Pull up rods and tubing to 15 ft bgs.
(1058) Begin purging for sample ISB-C2-GW-11-15.
(1105) Collect sample ISB-C2-11-15 for TAL metals (total and dissolved).
(1111) Pull up remaining rods, backfill hoe, and cold patch asphalt.
(1130) Pack equipment and mobilize to ISB-C1 location.
(1200) LAWES begins hand clearing ISB-C1 location.
(1220) LAWES begins advancing ISB-C1 soil boring with Geoprobe.
(1320) ISB-C1 soil boring advanced to 40 feet bgs, break for water and shade.
(1400) Step out 5 feet and begin advancing SP16 sampler to 45 ft bgs.
(1415) Begin purging for sample ISB-C1-GW-41-45.
(1430) Collect sample ISB-C1-GW-41-45 for TAL metals (total and dissolved) split with MS/MSD.
(1440) Pull up rods and tubing to 35 ft bgs.
(1445) Begin purging for sample ISB-C1-GW-31-35.
(1450) Collect sample ISB-C1-GW-31-35 for TAL metals (total and dissolved).
(1455) Pull up rods and tubing to 25 ft bgs.
(1500) Begin purging for sample ISB-C1-GW-21-25.
(1510) Collect sample ISB-C1-GW-21-25 for TAL metals (total and dissolved).

(1513) Pull up rods and tubing to 15 ft bgs.
(1517) Begin purging for sample ISB-C1-11-15.
(1525) Collect sample ISB-C1-GW-11-15 for TAL metals (total and dissolved).
(1530) Pull up remaining rods, pack equipment, and backfill holes.
(1545) Decontaminate SP16 sampler, collect EQB-9.
(1610) Transfer IDW to drums.
(1630) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	10
Cassandra Derrick	EA	Geologist	10
Scott Pederson	LAWES	Driller	10
Jason Neuhaus	LAWES	Driller	10

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	1	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

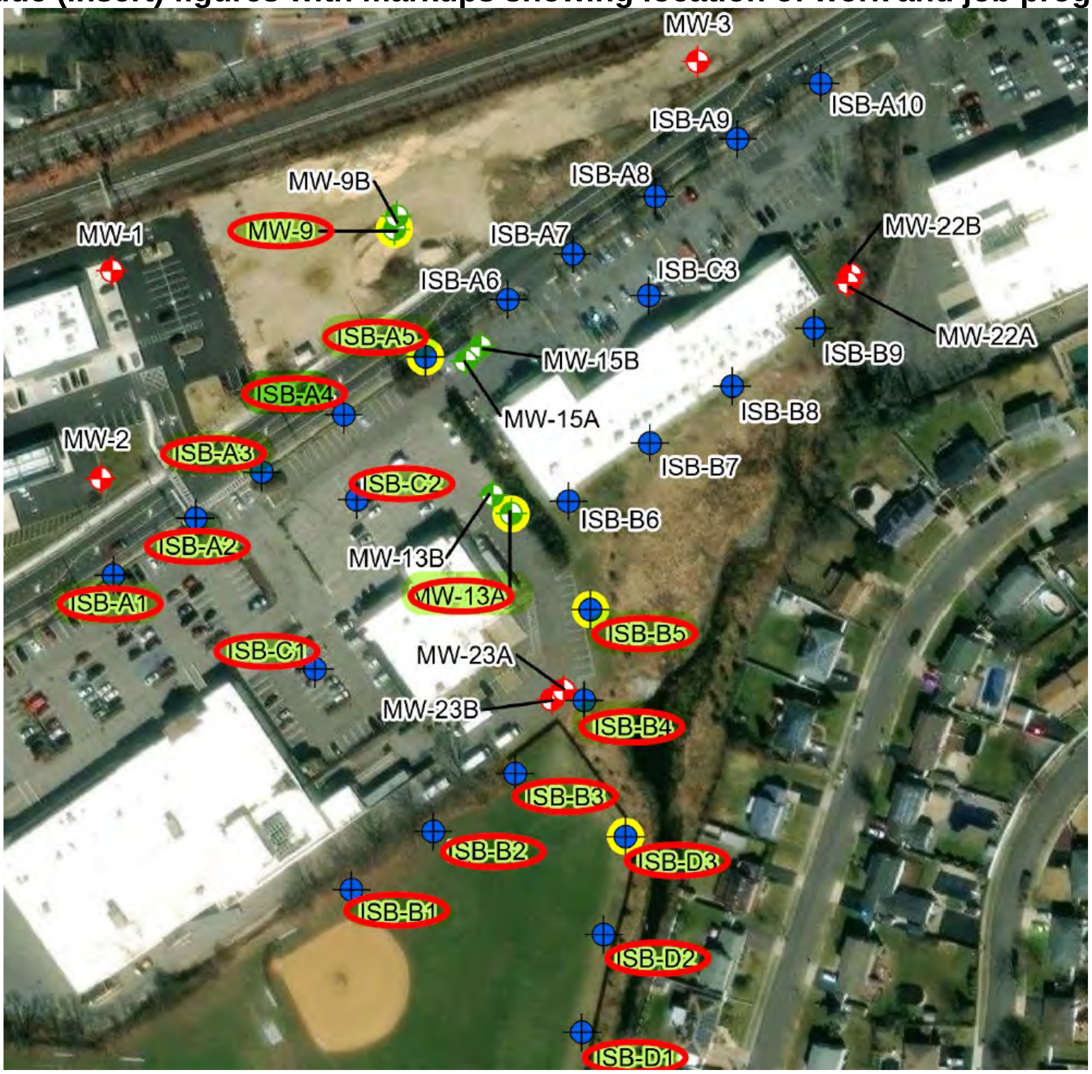
Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments	
EA plans to continue GW PDI work tomorrow on transects A in the parking lot.	
Issues Pending	
None.	
Interaction with Public, Property Owners, Media, etc.	
None.	

Include (insert) figures with markups showing location of work and job progress



Locations that have been sampled or are in progress are shown in green text and circled in red.

Site Photographs (Descriptions Below)
Attached in separate photo log.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/20/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

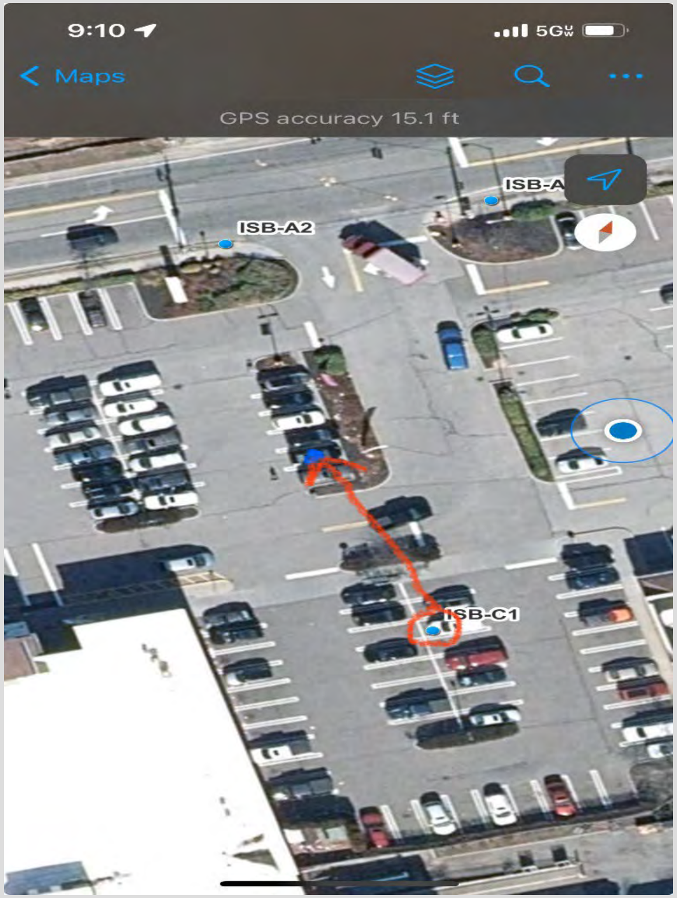
RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

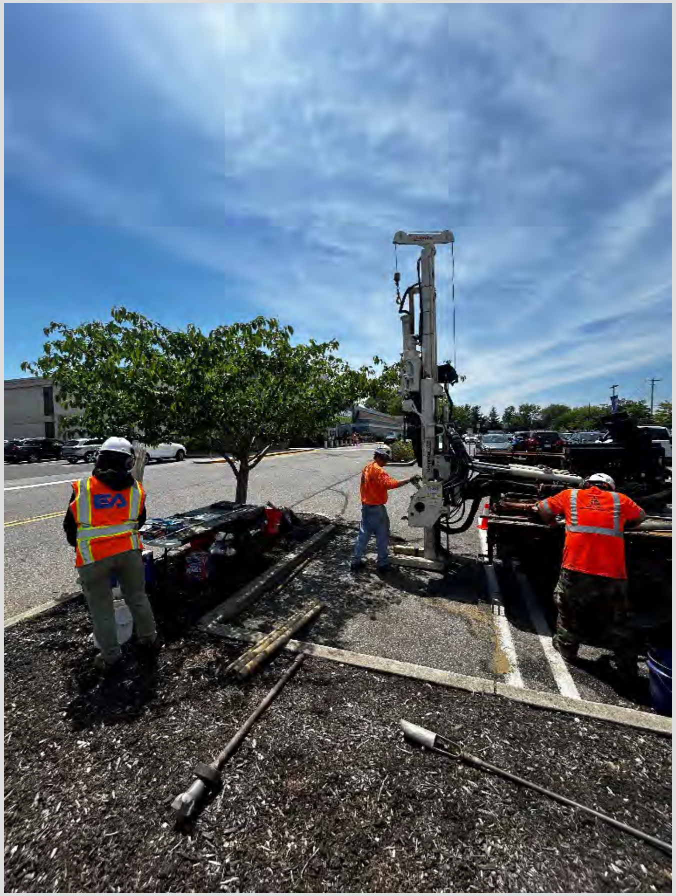
Dzus Fastener Site, West Islip, New York

LAWES advancing ISB-C2 boring with Geoprobe rig.



ISB-C1 location after relocation away from traffic/manholes.

Dzus Fastener Site, West Islip, New York



LAWES advancing soil boring at ISB-C1 location with Geoprobe.

ISB-C1 location.

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Cloudy	AM	Sunny	PM	
Temperature	55°F	AM	65°F	PM	
Wind	6 mph NE	AM	10 mph S	PM	

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1545

(0630) Lincoln Backman-Lowe and Cassandra Derrick (EA) onsite, calibrate Horiba U-52.
(0640) LAWES onsite, tailgate H&S meeting.
(0645) Mobilize equipment to ISB-A6 location, set up on hole.
(0715) LAWES begins hand-clearing ISB-A6 soil boring to 5 feet.
(0730) LAWES begins advancing ISB-A6 soil boring with Geoprobe.
(0835) Soil boring advanced to 40 feet bgs, pull up rods.
(0935) Step out 5 feet, begin advancing SP16 sampler to 45 feet.
(0955) Begin purging for sample ISB-A6-GW-41-45.
(1010) Collect sample ISB-A6-41-45 for TAL metals (total and dissolved).
(1013) Pull up rods and tubing to 35 ft bgs.
(1019) Begin purging for sample ISB-A6-GW-31-35.
(1028) Collect sample ISB-A6-31-35 for TAL metals (total and dissolved).
(1031) Pull up rods and tubing to 25 ft bgs.
(1035) Begin purging for sample ISB-A6-GW-21-25.
(1040) Collect sample ISB-A6-21-25 for TAL metals (total and dissolved).
(1050) Pull up rods and tubing to 15 ft bgs.
(1054) Begin purging for sample ISB-A6-GW-11-15.
(1100) Collect sample ISB-A6-11-15 for TAL metals (total and dissolved).
(1105) Pull up remaining rods, backfill holes, pack equipment, and mobilize to ISB-A7 location.
(1142) LAWES begins hand clearing ISB-A7 soil boring.
(1155) LAWES begins advancing ISB-A7 soil boring with Geoprobe.
(1305) ISB-A7 soil boring advanced to 40 feet bgs
(1310) Break for lunch.
(1340) Step out 5 feet and begin advancing SP16 sampler to 45 ft bgs.
(1420) Begin purging for sample ISB-A7-GW-41-45.
(1430) Collect sample ISB-A7-GW-41-45 for TAL metals (total and dissolved) split with MS/MSD.
(1435) Pull up rods and tubing to 35 ft bgs.
(1440) Begin purging for sample ISB-A7-GW-31-35.
(1450) Collect sample ISB-A7-GW-31-35 for TAL metals (total and dissolved).
(1452) Pull up rods and tubing to 25 ft bgs.
(1455) Begin purging for sample ISB-A7-GW-21-25.
(1500) Collect sample ISB-A7-GW-21-25 for TAL metals (total and dissolved).

(1505) Pull up rods and tubing to 15 ft bgs.
(1508) Begin purging for sample ISB-A7-11-15.
(1515) Collect sample ISB-A7-GW-11-15 for TAL metals (total and dissolved).
(1520) Pull up remaining rods.
(1530) Decontaminate SP16 sampler, collect EQB-10. Pack equipment, backfill holes, transfer IDW to drums.
(1545) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	9.25
Cassandra Derrick	EA	Geologist	9.25
Scott Pederson	LAWES	Driller	9.25
Jason Neuhaus	LAWES	Driller	9.25

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	1	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments	
EA plans to continue GW PDI work tomorrow on transects A in the parking lot.	
Issues Pending	
None.	
Interaction with Public, Property Owners, Media, etc.	
None.	

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in highlighted text and circled in red.

Site Photographs (Descriptions Below)
No photos.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/21/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/22/2024**

NYSDEC
Division of Environmental Remediation

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Contract No.

DEC PM – James Kruegler

Engineer PM – Hilary Williams

Engineer Insp. – L. Backman-Lowe

Site Location: West Islip, NY

Weather Conditions				
General Description	Sunny	AM	Sunny	PM
Temperature	61°F	AM	70°F	PM
Wind	2 mph S	AM	10 mph S	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1535

(0630) Lincoln Backman-Lowe and Cassandra Derrick (EA) onsite and LAWES onsite, tailgate H&S meeting.
(0645) Calibrate Horiba U-52. Mobilize equipment to ISB-A8 location, set up on hole.
(0715) LAWES begins hand-clearing ISB-A8 soil boring to 5 feet.
(0725) LAWES begins advancing ISB-A8 soil boring with Geoprobe.
(0845) ISB-A8 boring advanced to 40 feet bgs, pull up rods.
(0910) Step out 5 feet, begin advancing SP16 sampler to 45 feet.
(0933) Begin purging for sample ISB-A8-GW-41-45.
(0950) Collect sample ISB-A8-41-45 for TAL metals (total and dissolved).
(0955) Pull up rods and tubing to 35 ft bgs.
(0958) Begin purging for sample ISB-A8-GW-31-35.
(1015) Collect sample ISB-A8-31-35 for TAL metals (total and dissolved).
(1018) Pull up rods and tubing to 25 ft bgs.
(1022) Begin purging for sample ISB-A8-GW-21-25.
(1030) Collect sample ISB-A8-21-25 for TAL metals (total and dissolved).
(1032) Pull up rods and tubing to 15 ft bgs.
(1036) Begin purging for sample ISB-A8-GW-11-15.
(1045) Collect sample ISB-A8-11-15 for TAL metals (total and dissolved). Pull up remaining rods, backfill holes, pack equipment, and mobilize to ISB-A9 location.
(1145) LAWES begins hand clearing ISB-A9 soil boring.
(1200) LAWES begins advancing ISB-A9 soil boring with Geoprobe.
(1320) ISB-A9 soil boring advanced to 40 feet bgs
(1330) Step out 5 feet and begin advancing SP16 sampler to 45 ft bgs.
(1348) Begin purging for sample ISB-A9-GW-41-45.
(1400) Collect sample ISB-A9-GW-41-45 for TAL metals (total and dissolved).
(1403) Pull up rods and tubing to 35 ft bgs.
(1410) Begin purging for sample ISB-A9-GW-31-35.
(1418) Collect sample ISB-A9-GW-31-35 for TAL metals (total and dissolved).
(1421) Pull up rods and tubing to 25 ft bgs.
(1424) Begin purging for sample ISB-A9-GW-21-25.
(1430) Collect sample ISB-A9-GW-21-25 for TAL metals (total and dissolved).
(1437) Pull up rods and tubing to 15 ft bgs.
(1440) Begin purging for sample ISB-A9-11-15.
(1450) Collect sample ISB-A9-GW-11-15 for TAL metals (total and dissolved) split sample with MS/MSD.
(1500) Pull up remaining rods and tubing, backfill holes, pack equipment.
(1510) Decontaminate SP16 sampler, collect EQB-11.
(1530) Transfer IDW to drums.
(1535) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	9
Cassandra Derrick	EA	Geologist	9
Scott Pederson	LAWES	Driller	9
Jason Neuhaus	LAWES	Driller	9

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	1	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments
EA plans to continue GW PDI work tomorrow on transects A in the parking lot.

Issues Pending
None.
Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in highlighted text and circled in red.

Site Photographs (Descriptions Below)
No photos.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/22/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
Comments: None.			

* BART – Best Available Retrofit Technology

DAILY INSPECTION REPORT - No. 013

Dzus Fastener OU 1- 6 SM, Site No. 152033 **Date: 05/23/2024**

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Cloudy	AM	Cloudy, Humid	PM	
Temperature	63°F	AM	70°F	PM	
Wind	7 mph SE	AM	10 mph SSE	PM	

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1630

(0630) Lincoln Backman-Lowe and Cassandra Derrick (EA) onsite to block off drilling locations with cones.
(0640) Calibrate Horiba U-52.
(0645) LAWES onsite, tailgate H&S meeting.
(0650) Mobilize equipment and set up on ISB-C3 location.
(0710) LAWES begins hand-clearing ISB-C3 soil boring to 5 feet.
(0720) LAWES begins advancing ISB-C3 soil boring with Geoprobe.
(0850) ISB-C3 boring advanced to 40 feet bgs, pull up rods.
(0930) Step out 5 feet, begin advancing SP16 sampler to 45 feet.
(0945) Begin purging for sample ISB-C3-GW-41-45.
(0955) Collect sample ISB-C3-41-45 for TAL metals (total and dissolved).
(0958) Pull up rods and tubing to 35 ft bgs.
(1002) Begin purging for sample ISB-C3-GW-31-35.
(1010) Collect sample ISB-C3-31-35 for TAL metals (total and dissolved).
(1013) Pull up rods and tubing to 25 ft bgs.
(1015) Begin purging for sample ISB-C3-GW-21-25.
(1020) Collect sample ISB-C3-21-25 for TAL metals (total and dissolved) with duplicate.
(1029) Break due to thunderstorm, will wait 30 minutes after last lightning strike to resume work.
(1129) Resume work, last thunder strike at 1059.
(1134) Pull up rods and tubing to 15 ft bgs.
(1139) Begin purging for sample ISB-C3-GW-11-15.
(1145) Collect sample ISB-C3-11-15 for TAL metals (total and dissolved).
(1150) Pull up remaining rods, backfill holes, pack equipment, and mobilize to ISB-A10 location.
(1245) LAWES begins hand clearing ISB-A10 soil boring.
(1300) LAWES begins advancing ISB-A10 soil boring with Geoprobe.
(1420) ISB-A10 soil boring advanced to 40 feet bgs
(1430) Step out 5 feet and begin advancing SP16 sampler to 45 ft bgs.
(1448) Begin purging for sample ISB-A10-GW-41-45.
(1455) Collect sample ISB-A10-GW-41-45 for TAL metals (total and dissolved).
(1458) Pull up rods and tubing to 35 ft bgs.
(1502) Begin purging for sample ISB-A10-GW-31-35.
(1510) Collect sample ISB-A10-GW-31-35 for TAL metals (total and dissolved).
(1512) Pull up rods and tubing to 25 ft bgs.
(1516) Begin purging for sample ISB-A10-GW-21-25.
(1523) Collect sample ISB-A10-GW-21-25 for TAL metals (total and dissolved).
(1525) Pull up rods and tubing to 15 ft bgs.

(1528) Begin purging for sample ISB-A10-11-15.
(1535) Collect sample ISB-A10-GW-11-15 for TAL metals (total and dissolved).
(1538) Pull up remaining rods and tubing, backfill holes, pack equipment.
(1550) Decontaminate SP16 sampler, collect EQB-12.
(1620) Transfer IDW to drums.
(1630) EA and LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	10
Cassandra Derrick	EA	Geologist	10
Scott Pederson	LAWES	Driller	9.75
Jason Neuhaus	LAWES	Driller	9.75

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	1	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments
EA plans to continue GW PDI work tomorrow by completing soil borings ISB-B8 and ISB-B9.
Issues Pending
None.
Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are shown in highlighted text and circled in red.

Site Photographs (Descriptions Below)
No photos.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/23/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

NYSDEC Division of Environmental Remediation	**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY	

Weather Conditions

General Description	Cloudy	AM	Cloudy, Humid	PM
Temperature	63°F	AM	74°F	PM
Wind	7 mph SE	AM	5 mph SSE	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1430

(0630) EA & LAWES onsite, tailgate health & safety meeting, discuss remaining scope of work.
(0645) Calibrate Horiba U-52.
(0650) Mobilize Geoprobe rig & equipment to ISB-9 location.
(0715) LAWES begins hand-clearing ISB-B9 soil boring.
(0730) LAWES begins advancing ISB-B9 boring with Geoprobe.
(0850) ISB-B9 boring advanced to 40' bgs.
(0930) Step out 5', begin advancing SP16 sampler.
(0952) Begin purging for sample ISB-B9-GW-41-45.
(1005) Collect sample ISB-B9-GW-41-45.
(1010) Pull up rods and tubing to 35' bgs.
(1012) Begin purging for sample ISB-B9-GW-31-35.
(1020) Collect sample ISB-B9-GW-31-35.
(1022) Pull up rods & tubing to 25' bgs.
(1025) Begin purging for sample ISB-B9-GW-21-25.
(1030) Collect sample ISB-B9-GW-21-25.
(1038) Pull up rods & tubing to 15' bgs.
(1045) Begin purging for sample ISB-B9-GW-11-15.
(1050) Collect sample ISB-B9-GW-11-15.
(1055) Pull up remaining rods, pack equipment, mobilize to ISB-B8 location.
(1115) LAWES begins hand-clearing ISB-B8 soil boring.
(1123) LAWES begins advancing ISB-B8 boring with Geoprobe.
(1220) ISB-B8 boring advanced to 40' bgs.
(1235) Step out 5', begin advancing SP16 sampler.
(1255) Begin purging for sample ISB-B8-GW-41-45.
(1305) Collect sample ISB-B8-GW-41-45.
(1308) Pull up rods & tubing to 35' bgs.
(1312) Begin purging for sample ISB-B8-GW-31-35.
(1320) Collect sample ISB-B8-GW-31-35.
(1325) Pull up rods & tubing to 25' bgs.
(1328) Begin purging for sample ISB-B8-GW-21-25.
(1335) Collect sample ISB-B8-GW-21-25.
(1339) Pull up rods & tubing to 15' bgs.
(1342) Begin purging for sample ISB-B8-GW-11-15.
(1350) Collect sample ISB-B8-GW-11-15.
(1353) Pull up remaining rods, backfill hole, pack equipment.
(1415) Decontaminate SP16 sampler, collect EQB-13.
(1420) Transfer IDW to drums.
(1430) EA & LAWES offsite.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Lincoln Backman-Lowe	EA	Scientist	10
Cassandra Derrick	EA	Geologist	10
Scott Pederson	LAWES	Driller	9.75
Jason Neuhaus	LAWES	Driller	9.75

Equipment Description	Contractor/Vendor	Quantity	Used
Dodge RAM	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	1	Yes
Water Level Meter	Pine	1	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

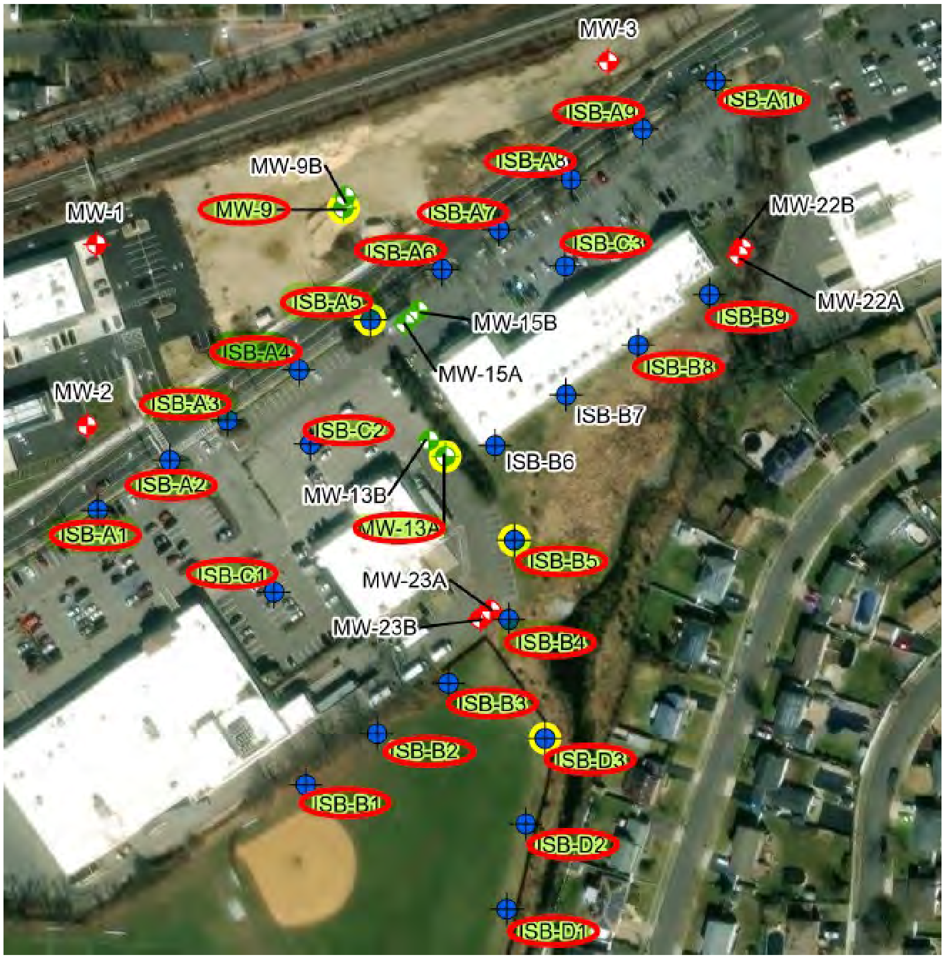
Name	Representing
N/A	

Project Schedule Comments
EA plans to continue GW PDI work the week of June 3, 2024. There are two sampling locations remaining; ISB-B6 and ISB-B7.

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress



Locations that have been sampled or are in progress are shown in highlighted text and circled in red.

Site Photographs (Descriptions Below)
No photos.

Comments	
N/A	
Site Inspector(s): Lincoln Backman-Lowe	**Date: 05/24/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒

Comments:

None.

* BART – Best Available Retrofit Technology

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Foggy	AM	Sunny	PM	
Temperature	67°F	AM	74°F	PM	
Wind	3 mph E	AM	10 mph SSE	PM	

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0700	Departed Site:	1615

(0700) EA & LAWES onsite, tailgate health & safety meeting, discuss remaining scope of work.
(0710) Calibrate Horiba U-52. Begin mobilization of Geoprobe rig & equipment to ISB-B6 location.
(0750) LAWES begins hand-clearing ISB-B6 soil boring.
(0805) LAWES begins advancing ISB-B6 boring with Geoprobe.
(0910) ISB-B6 boring advanced to 40' bgs.
(0915) Step out 5', begin advancing SP16 sampler.
(0940) Begin purging for sample ISB-B6-GW-41-45.
(0950) Collect sample ISB-B6-GW-41-45.
(0953) Pull up rods and tubing to 35' bgs.
(1000) Begin purging for sample ISB-B6-GW-31-35.
(1008) Collect sample ISB-B6-GW-31-35.
(1013) Pull up rods & tubing to 25' bgs.
(1017) Begin purging for sample ISB-B6-GW-21-25.
(1025) Collect sample ISB-B6-GW-21-25.
(1029) Pull up rods & tubing to 15' bgs.
(1032) Begin purging for sample ISB-B6-GW-11-15.
(1038) Collect sample ISB-B6-GW-11-15.
(1041) Pull up remaining rods, backfill, & pack equipment.
(1045) Mobilize to ISB-B7 location.
(1120) LAWES begins hand-clearing ISB-B7 soil boring.
(1133) LAWES begins advancing ISB-B7 boring with Geoprobe.
(1235) ISB-B7 boring advanced to 40' bgs.
(1248) Step out 5', begin advancing SP16 sampler.
(1305) Begin purging for sample ISB-B7-GW-41-45.
(1313) Collect sample ISB-B7-GW-41-45.
(1316) Pull up rods & tubing to 35' bgs.
(1320) Begin purging for sample ISB-B7-GW-31-35.
(1328) Collect sample ISB-B7-GW-31-35.
(1331) Pull up rods & tubing to 25' bgs.
(1336) Begin purging for sample ISB-B7-GW-21-25.
(1343) Collect sample ISB-B7-GW-21-25.
(1346) Pull up rods & tubing to 15' bgs.
(1350) Begin purging for sample ISB-B7-GW-11-15.
(1353) Collect sample ISB-B7-GW-11-15.
(1358) Pull up remaining rods, backfill hole, pack equipment.
(1416) Mobilize drill rig to ISB-B5.

(1429) Begin advancing SP16 sampler.
(1441) Begin purging for sample ISB-B5-GW-7-11.
(1446) Collect sample ISB-B5-GW-7-11.
(1505) Begin advancing SP16 sampler at ISB-B4.
(1515) Begin purging for sample ISB-B4-GW-7-11.
(1517) Collect sample ISB-B4-GW-7-11.
(1522) Pull up remaining rods and tubing, backfill holes, pack equipment.
(1530) Decontaminate SP16 sampler, collect EQB-13.
(1535) Transfer IDW to drum.
(1545) LAWES offsite.
(1615) EA offsite after searching for utility mark-outs/stormwater diversion routes.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Cassandra Derrick	EA	Geologist	9.25
Haley Young	EA	Scientist	9.25
Kevin Mc'Gourty	LAWES	Driller	8.75
Jason Neuhaus	LAWES	Driller	8.75

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments
EA plans to continue GW PDI work on transect B and transect D taking shallow interval groundwater samples.
Issues Pending
None.
Interaction with Public, Property Owners, Media, etc.
None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are circled in red.

Site Photographs (Descriptions Below)
No photos.

Comments	
N/A	
Site Inspector(s): Cassandra Derrick	**Date: 06/04/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒

<u>Comments:</u>

None.

* BARTSans – Best Available Retrofit Technology

NYSDEC Division of Environmental Remediation					**Contract No.** **DEC PM – James Kruegler** **Engineer PM – Hilary Williams** **Engineer Insp. – L. Backman-Lowe**
Site Location: West Islip, NY					
Weather Conditions					
General Description	Cloudy	AM	Partly Cloudy	PM	
Temperature	65°F	AM	72°F	PM	
Wind	5 mph S	AM	9 mph S	PM	

Health & Safety **If any box below is checked "Yes", provide explanation under "Health & Safety Comments".**			
Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

Tailgate safety meeting held upon arrival onsite. Topics covered included: vehicle traffic; drilling safety & heavy equipment safety; slips, trips, and falls; dehydration.

Summary of Work Performed	Arrived at site:	0630	Departed Site:	1300

(0630) EA & LAWES onsite, tailgate health & safety meeting, discuss remaining scope of work.
(0649) Calibrate Horiba U-52. Begin mobilization of Geoprobe rig & equipment to ISB-B1 location.
(0750) LAWES begins advancing SP16 sampler on ISB-B1.
(0801) Begin purging for sample ISB-B1-GW-4-8.
(0804) Collect sample ISB-B1-GW-4-8 with MS/MSD.
(0822) Pull up rods and tubing and mob to ISB-B2.
(0853) Begin advancing SP16 sampler on ISB-B2.
(0902) Begin purging for sample ISB-B2-GW-4-8.
(0906) Collect sample ISB-B2-GW-4-8.
(0910) Pull up rods & tubing and mob to ISB-B3.
(0928) Begin advancing SP16 sampler on ISB-B3.
(0933) Begin purging for sample ISB-B3-GW-3.5-7.5.
(0936) Collect sample ISB-B3-GW-3.5-7.5.
(0946) Pull up rods & tubing and mob to ISB-D3.
(1002) Begin advancing SP16 sampler on ISB-D3.
(1010) Begin purging for sample ISB-D3-GW-3.5-7.5.
(1013) Collect sample ISB-D3-GW-3.5-7.5.
(1018) Pull up rods & tubing and mob to ISB-D2.
(1034) Begin advancing SP16 sampler on ISB-D2.
(1041) Begin purging for sample ISB-D2-GW-3.5-7.5 with DUP.
(1046) Collect sample ISB-D2-GW-3.5-7.5 and ISB-GW-FD-06-06052024.
(1053) Pull up rods & tubing and mob to ISB-D1.
(1110) Begin advancing SP16 sampler on ISB-D1.
(1116) Begin purging for sample ISB-D1-GW-4-8.
(1120) Collect sample ISB-D1-GW-4-8.
(1125) Pull up rods & tubing. Backfill and mob to trucks/pack up for the day.
(1210) Decon SP16 and collect EQB-15.
(1300) EA and LAWES offsite.

Equipment/Material Tracking **If any box below is checked "Yes", provide explanation under "Material Tracking Comments".**			
Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Cassandra Derrick	EA	Geologist	6.5
Haley Young	EA	Scientist	6.5
Kevin M'Gourty	LAWES	Driller	6.5
Jason Neuhaus	LAWES	Driller	6.5

Equipment Description	Contractor/Vendor	Quantity	Used
Ford F-150	Enterprise	1	Yes
Geoprobe	LAWES	1	Yes
Box Truck	LAWES	2	Yes
Horiba U-52	Pine	1	Yes

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*
N/A						

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:
None.

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
N/A		**Yes**	**No**
		Yes	**No**
		Yes	**No**
		Yes	**No**

Site Representatives

Name	Representing
N/A	

Project Schedule Comments
None.

Issues Pending
None.

Interaction with Public, Property Owners, Media, etc.

None.

Include (insert) figures with markups showing location of work and job progress

Locations that have been sampled or are in progress are circled in red.

Site Photographs (Descriptions Below)
No photos.

Comments	
N/A	
Site Inspector(s): Cassandra Derrick	**Date: 06/05/2024**

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work? Yes ☐

On-Site Waste Storage

Drums, roll offs and piles are staged in secure areas?	Yes ☒	No ☐	N/A☐
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A☒
Containers are in good condition or properly overpacked?	Yes ☒	No ☐	N/A☐
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☒	No ☐	N/A☐
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A☒
Containers are closed when not in use?	Yes ☒	No ☐	N/A☐
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☒	No ☐	N/A☐
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☒	No ☐	N/A☐
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☒
Comments: None.			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A☒
	Yes ☐	No ☐	N/A☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A☒
<u>Comments:</u> None.			

* BART – Best Available Retrofit Technology

Appendix B

Slug Test & Hydraulic Conductivity Results

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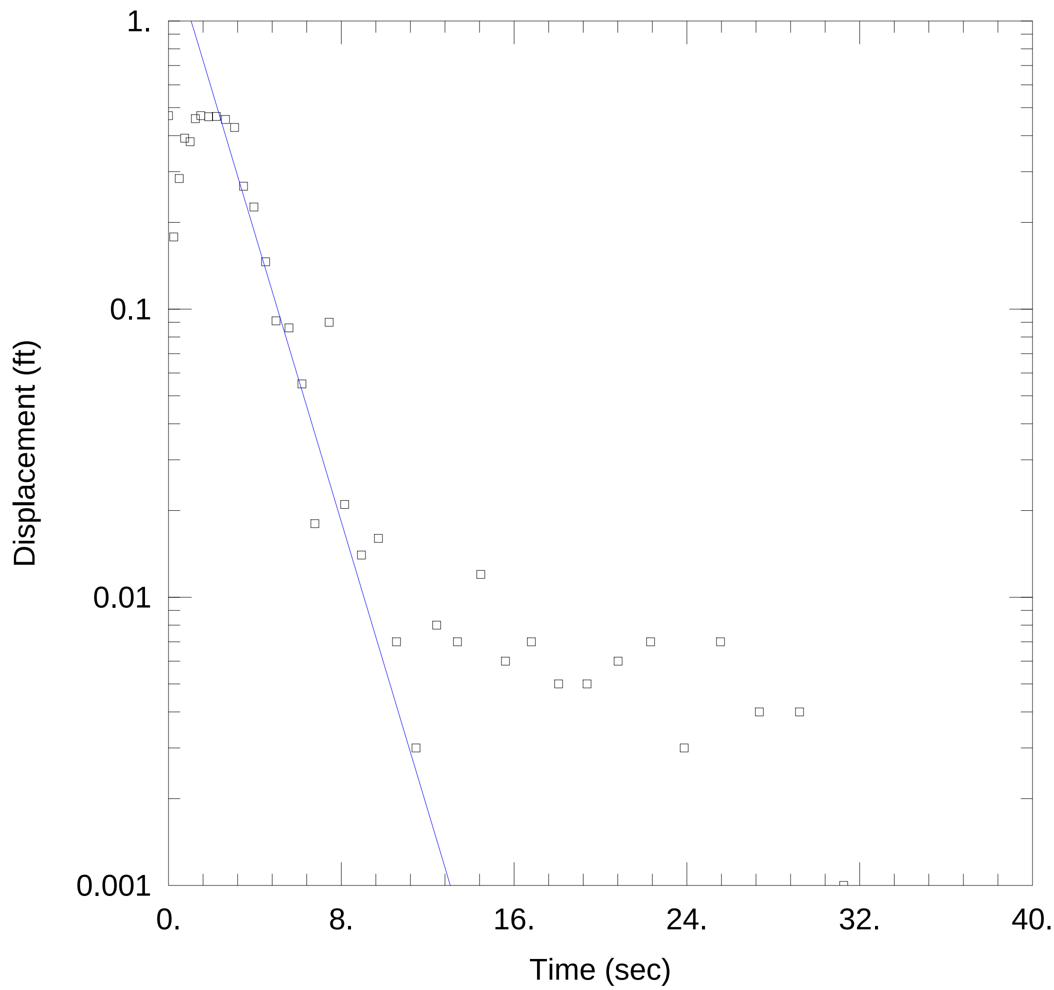


WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13arising2.aqt
Date: 07/08/24 Time: 22:16:33

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.785 ft
Anisotropy Ratio (Kz/Kr): 1.

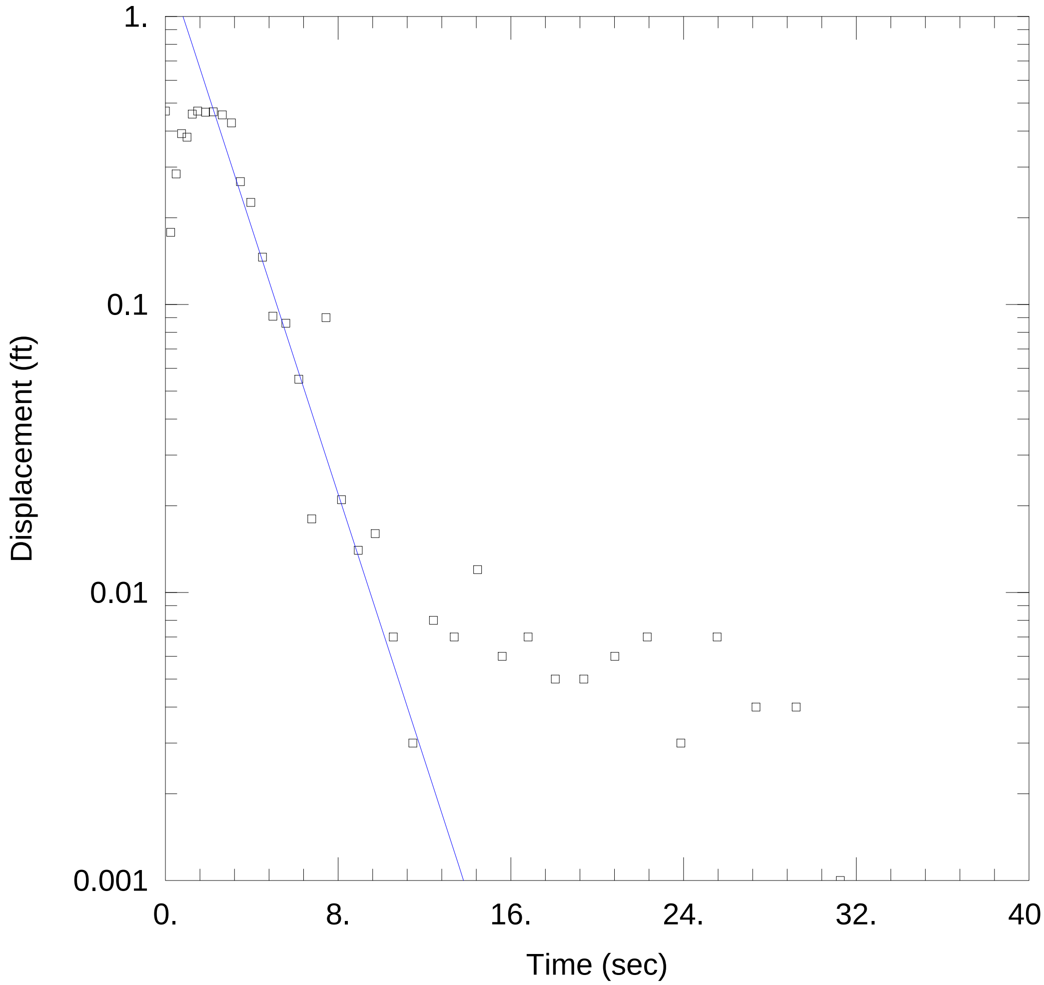
WELL DATA (MW-13A)

Initial Displacement: 0.469 ft
Static Water Column Height: 5.785 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1102 cm/sec
y0 = 1.83 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13arising1.aqt
Date: 07/08/24 Time: 22:12:29

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.785 ft
Anisotropy Ratio (Kz/Kr): 1.

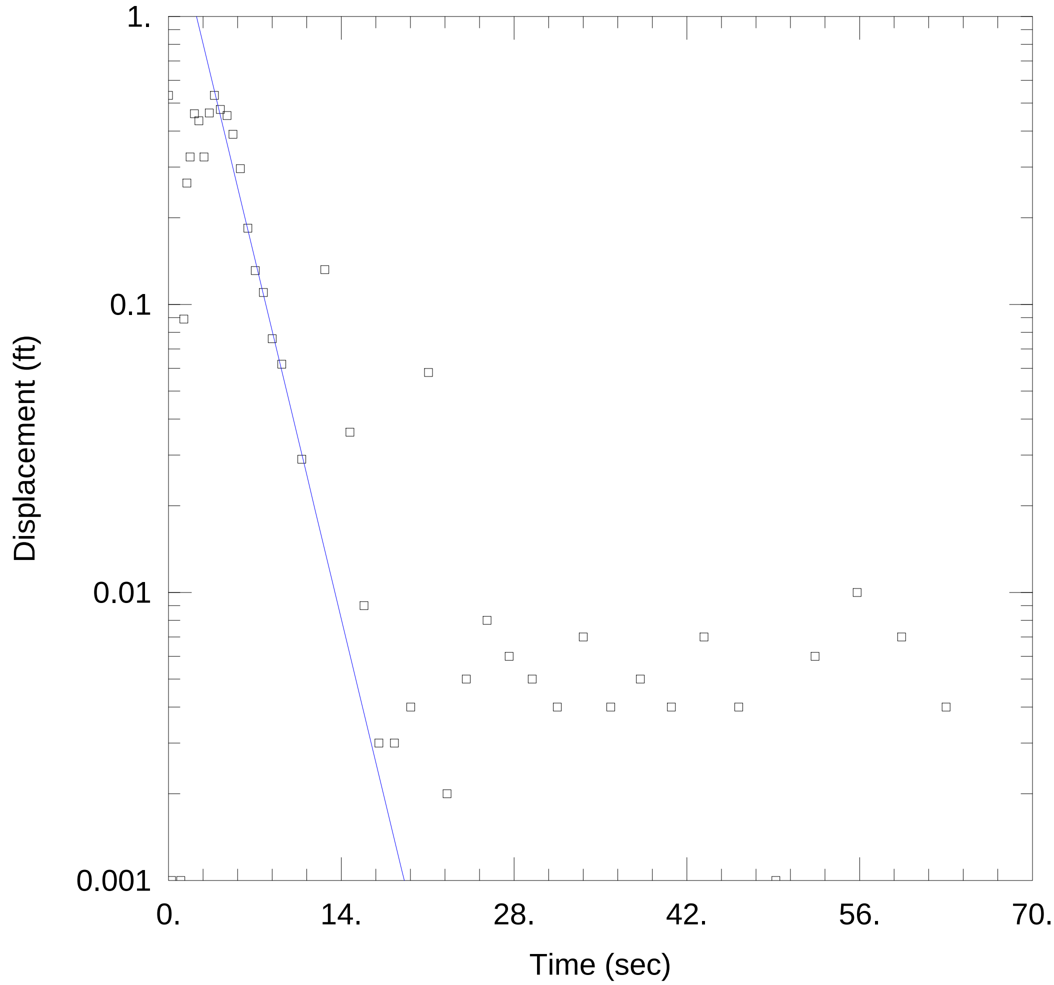
WELL DATA (MW-13A)

Initial Displacement: 0.469 ft
Static Water Column Height: 5.785 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1393 cm/sec
y0 = 1.545 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13arising1.aqt
Date: 07/08/24 Time: 18:36:47

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.779 ft Anisotropy Ratio (Kz/Kr): 1.

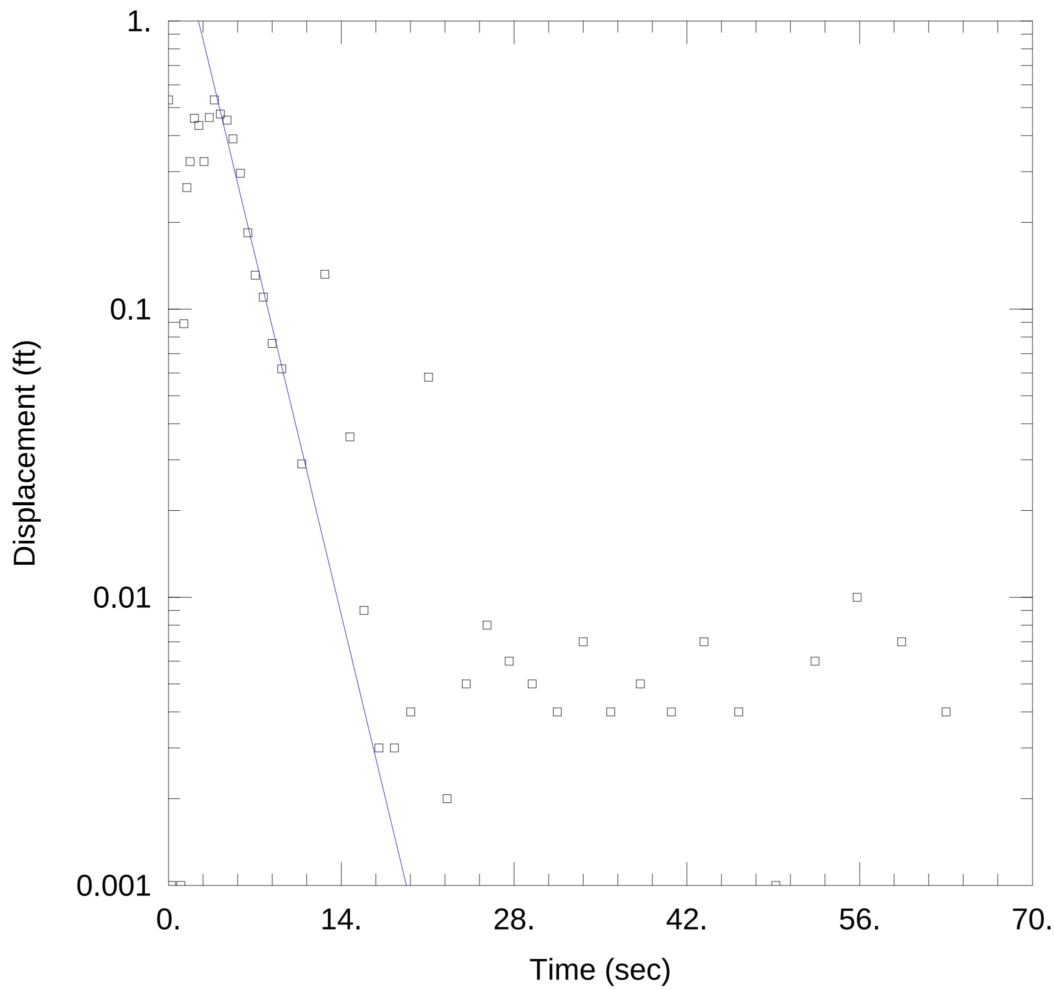
WELL DATA (MW-13A)

Initial Displacement: 0.532 ft Static Water Column Height: 5.779 ft
Total Well Penetration Depth: 10. ft Screen Length: 5. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.07849 cm/sec y0 = 2.536 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13arising1.aqt
Date: 07/08/24 Time: 18:39:03

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.779 ft
Anisotropy Ratio (Kz/Kr): 1.

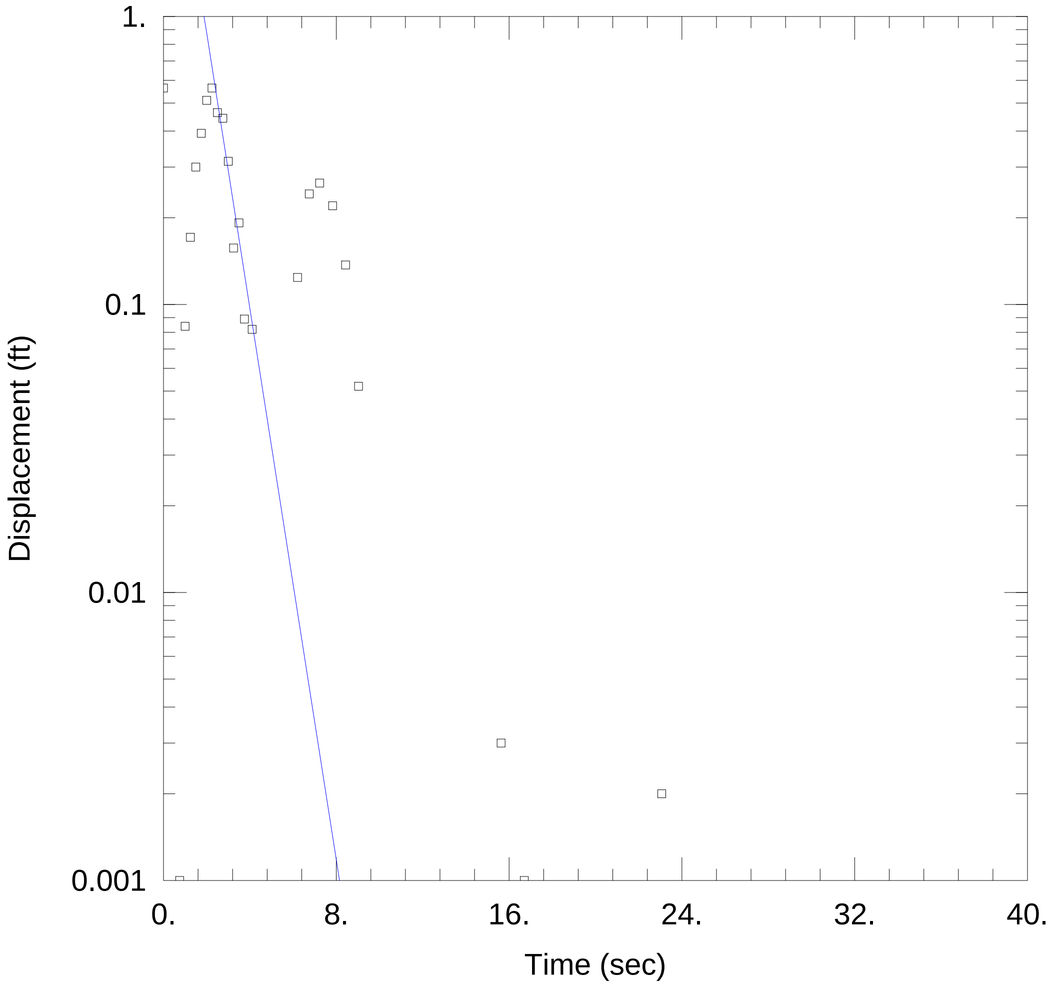
WELL DATA (MW-13A)

Initial Displacement: 0.532 ft
Static Water Column Height: 5.779 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1074 cm/sec
y0 = 2.715 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13BFall1.aqt
Date: 07/08/24 Time: 23:16:32

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.91 ft
Anisotropy Ratio (Kz/Kr): 1.

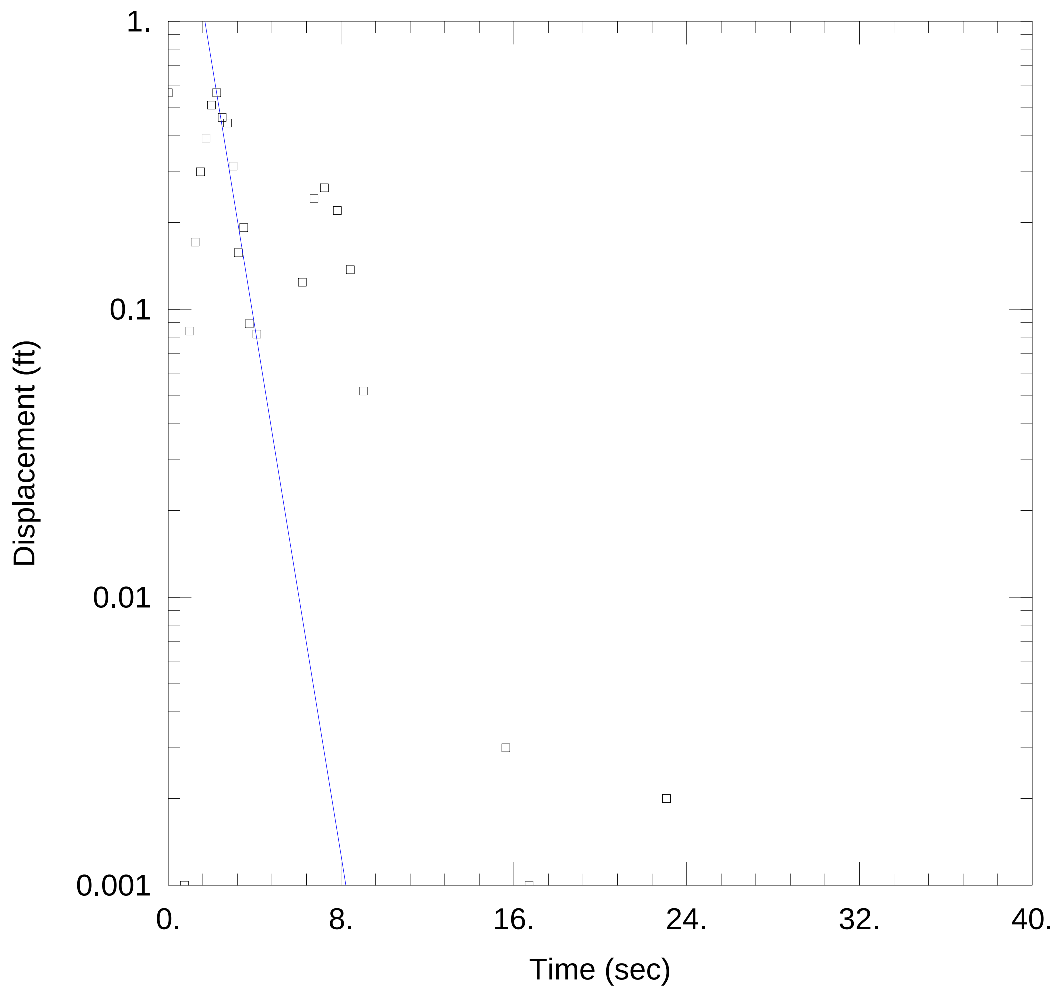
WELL DATA (MW-13B)

Initial Displacement: 0.564 ft
Static Water Column Height: 39.91 ft
Total Well Penetration Depth: 44. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1427 cm/sec
y0 = 7.944 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13BFall1.aqt
Date: 07/08/24 Time: 23:17:01

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.91 ft Anisotropy Ratio (Kz/Kr): 1.

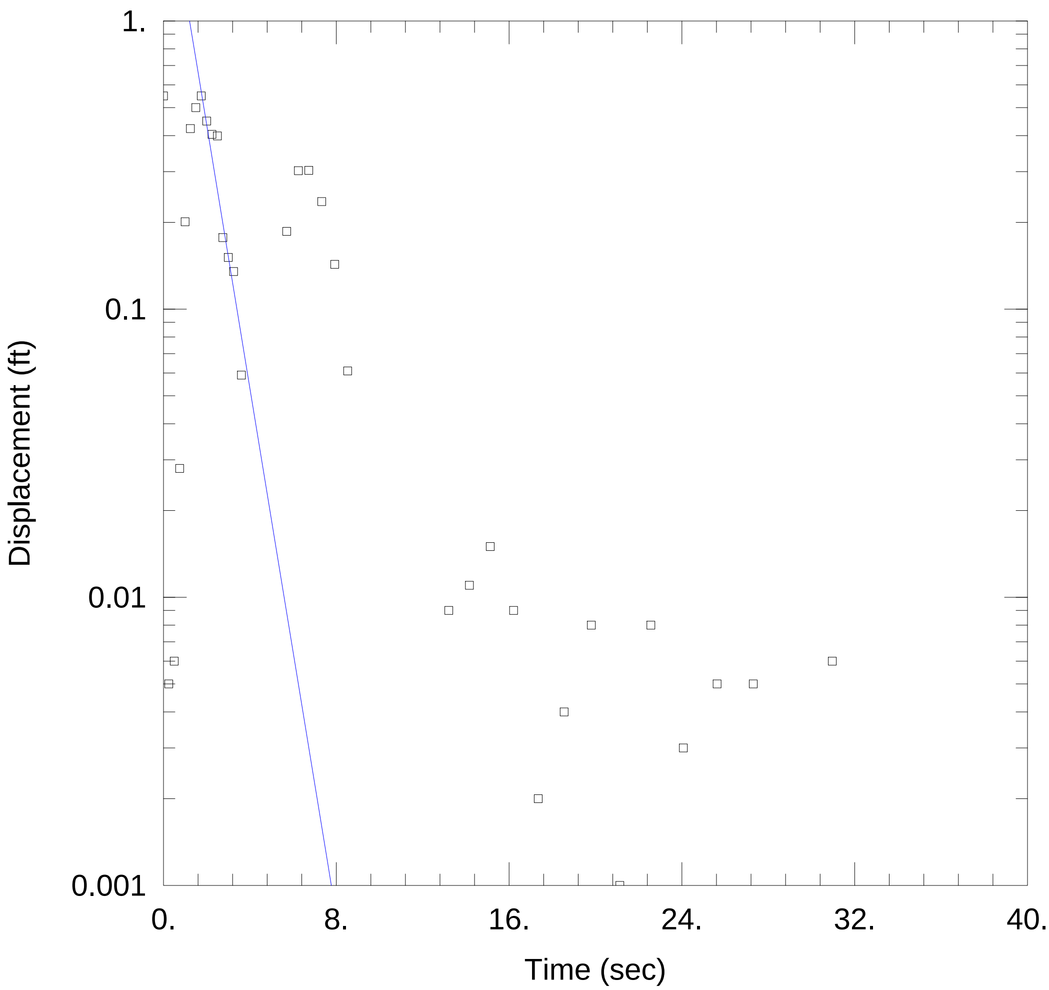
WELL DATA (MW-13B)

Initial Displacement: 0.564 ft Static Water Column Height: 39.91 ft
Total Well Penetration Depth: 44. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.162 cm/sec y0 = 6.027 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13BFall2.aqt
Date: 07/08/24 Time: 23:20:16

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.91 ft Anisotropy Ratio (Kz/Kr): 1.

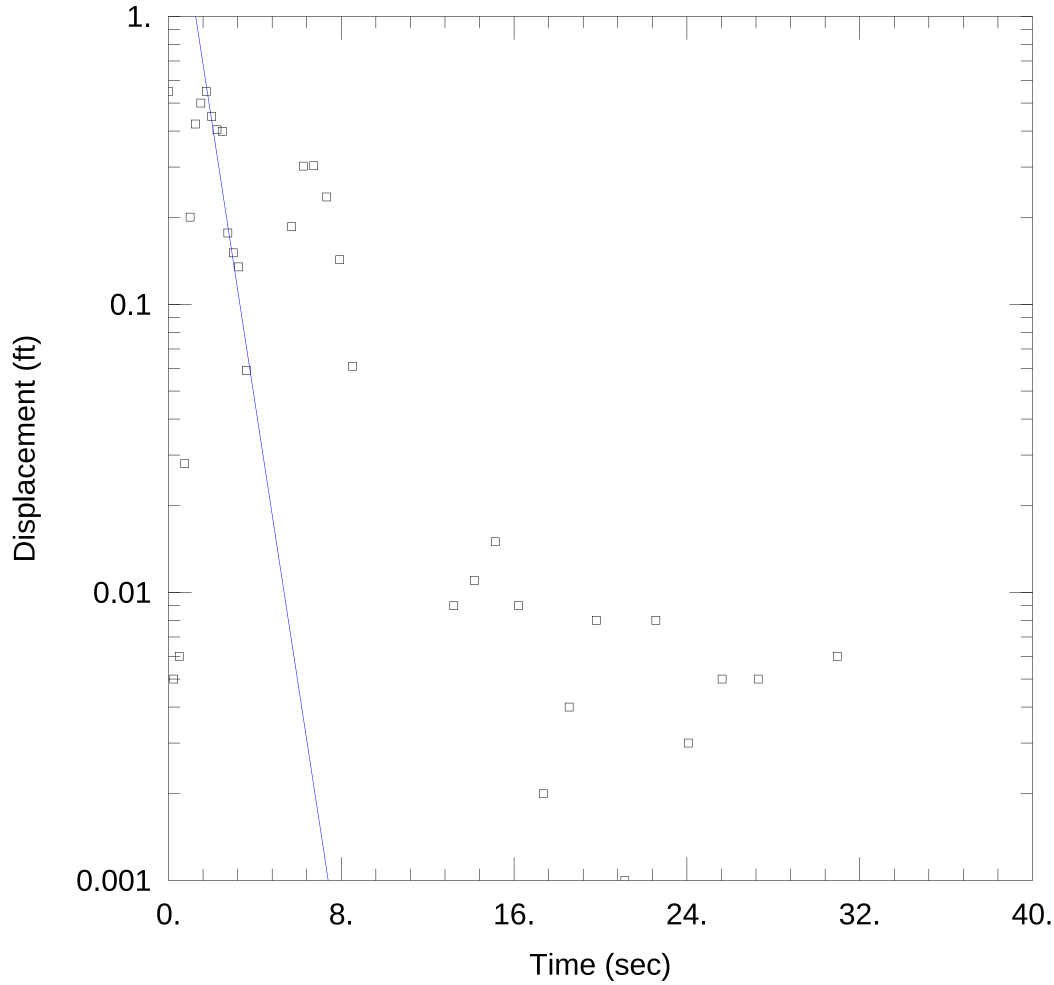
WELL DATA (MW-13B)

Initial Displacement: 0.549 ft
Total Well Penetration Depth: 44. ft
Casing Radius: 0.167 ft
Static Water Column Height: 39.91 ft
Screen Length: 10. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1363 cm/sec y0 = 3.583 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13BFall2.aqt
Date: 07/08/24 Time: 23:19:21

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.91 ft Anisotropy Ratio (Kz/Kr): 1.

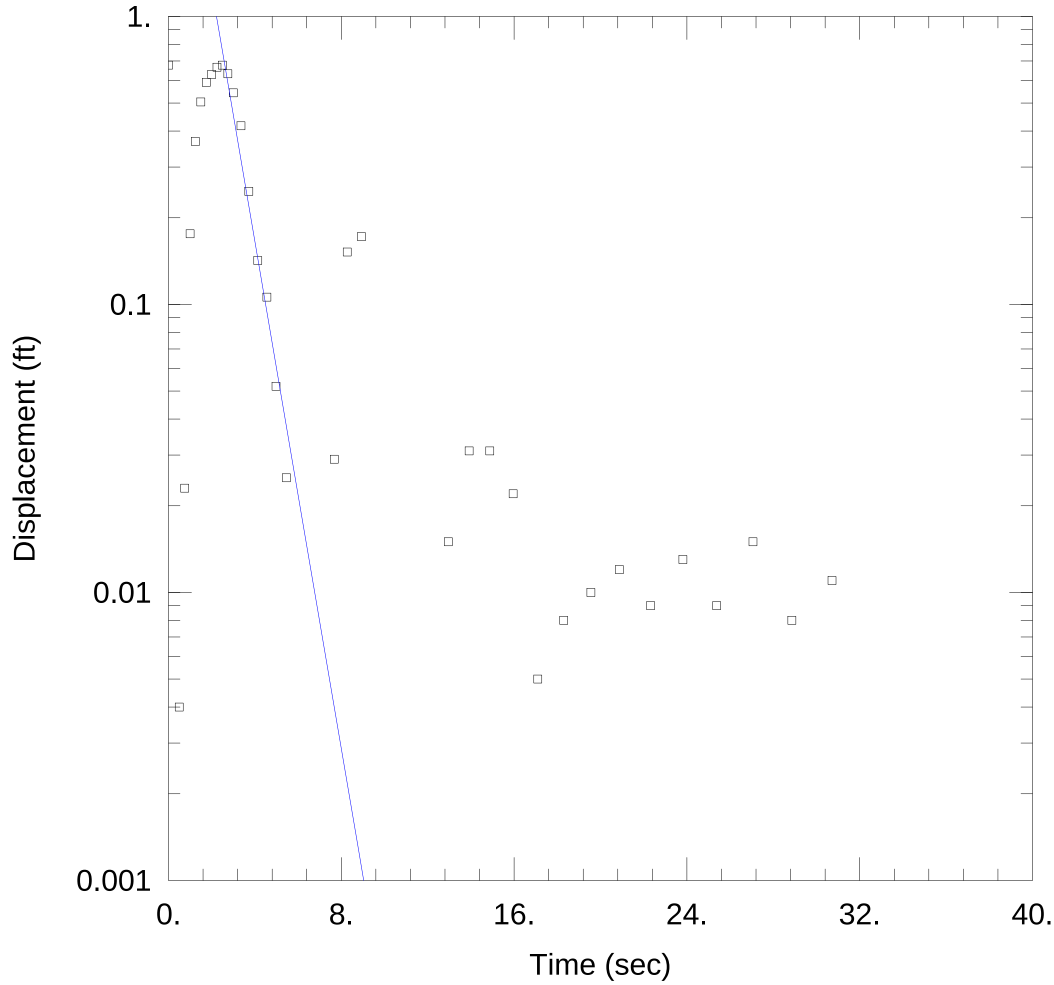
WELL DATA (MW-13B)

Initial Displacement: 0.549 ft Static Water Column Height: 39.91 ft
Total Well Penetration Depth: 44. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1724 cm/sec y0 = 4.125 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13Brise1.aqt
Date: 07/08/24 Time: 23:06:50

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.9 ft Anisotropy Ratio (Kz/Kr): 1.

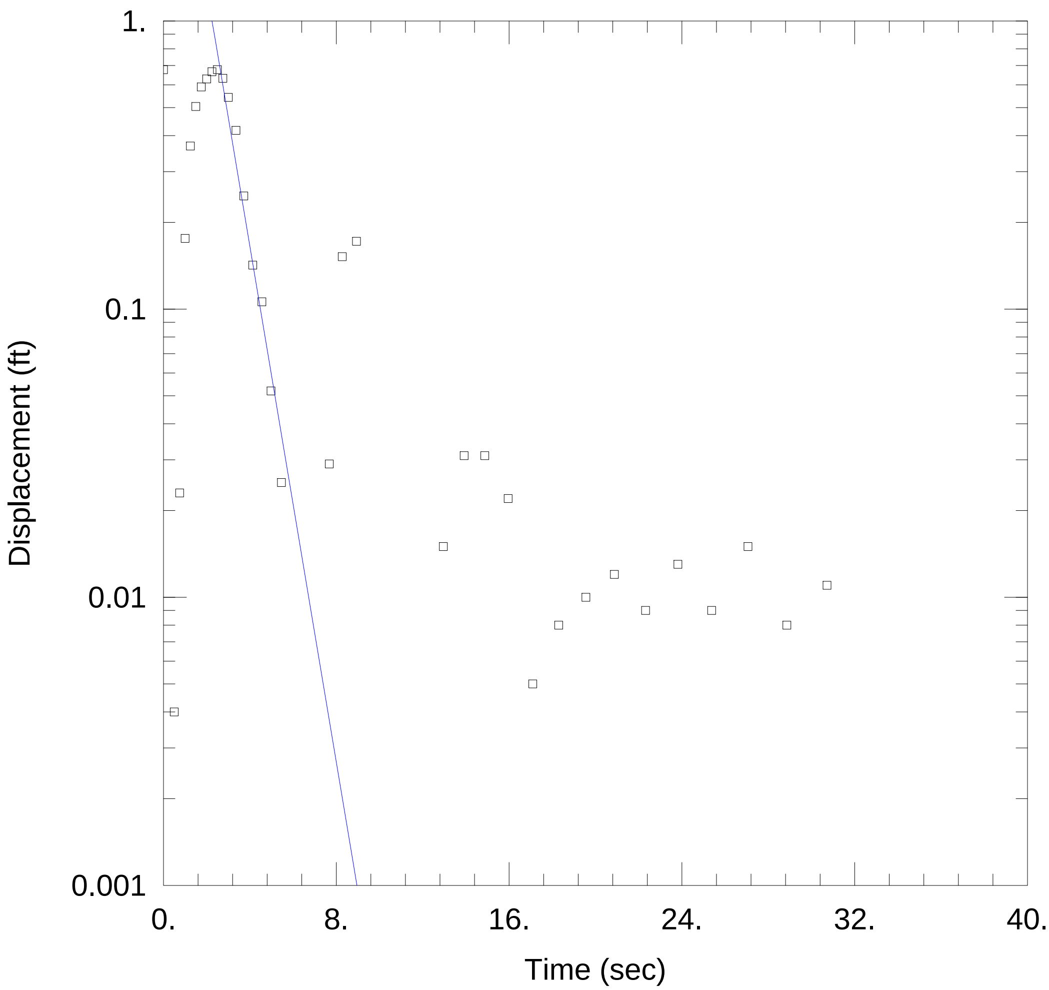
WELL DATA (MW-13B)

Initial Displacement: 0.677 ft Static Water Column Height: 39.9 ft
Total Well Penetration Depth: 44. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1312 cm/sec y0 = 9.521 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13Brise1.aqt
Date: 07/08/24 Time: 23:07:53

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.9 ft
Anisotropy Ratio (Kz/Kr): 1.

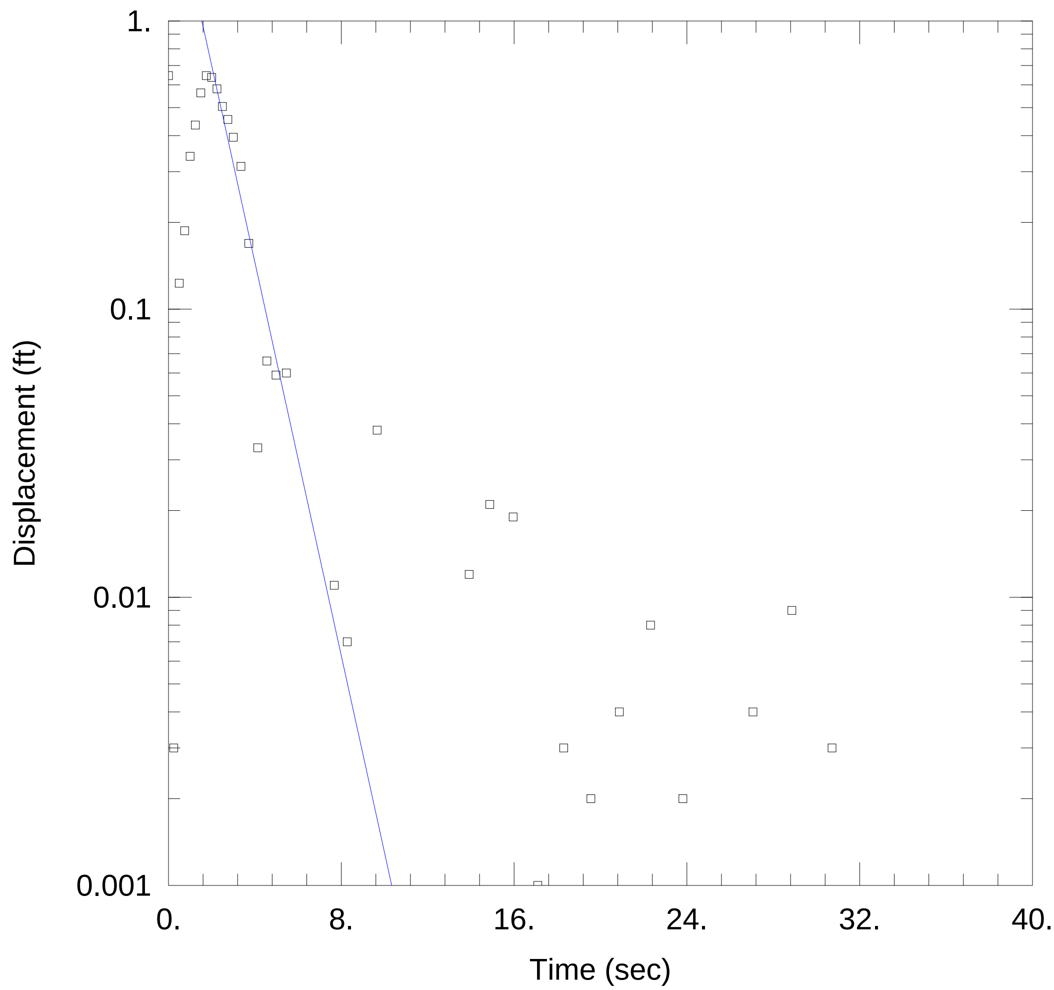
WELL DATA (MW-13B)

Initial Displacement: 0.677 ft
Static Water Column Height: 39.9 ft
Total Well Penetration Depth: 44. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1578 cm/sec
y0 = 10.16 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13Brise2.aqt
Date: 07/08/24 Time: 23:12:41

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.9 ft
Anisotropy Ratio (Kz/Kr): 1.

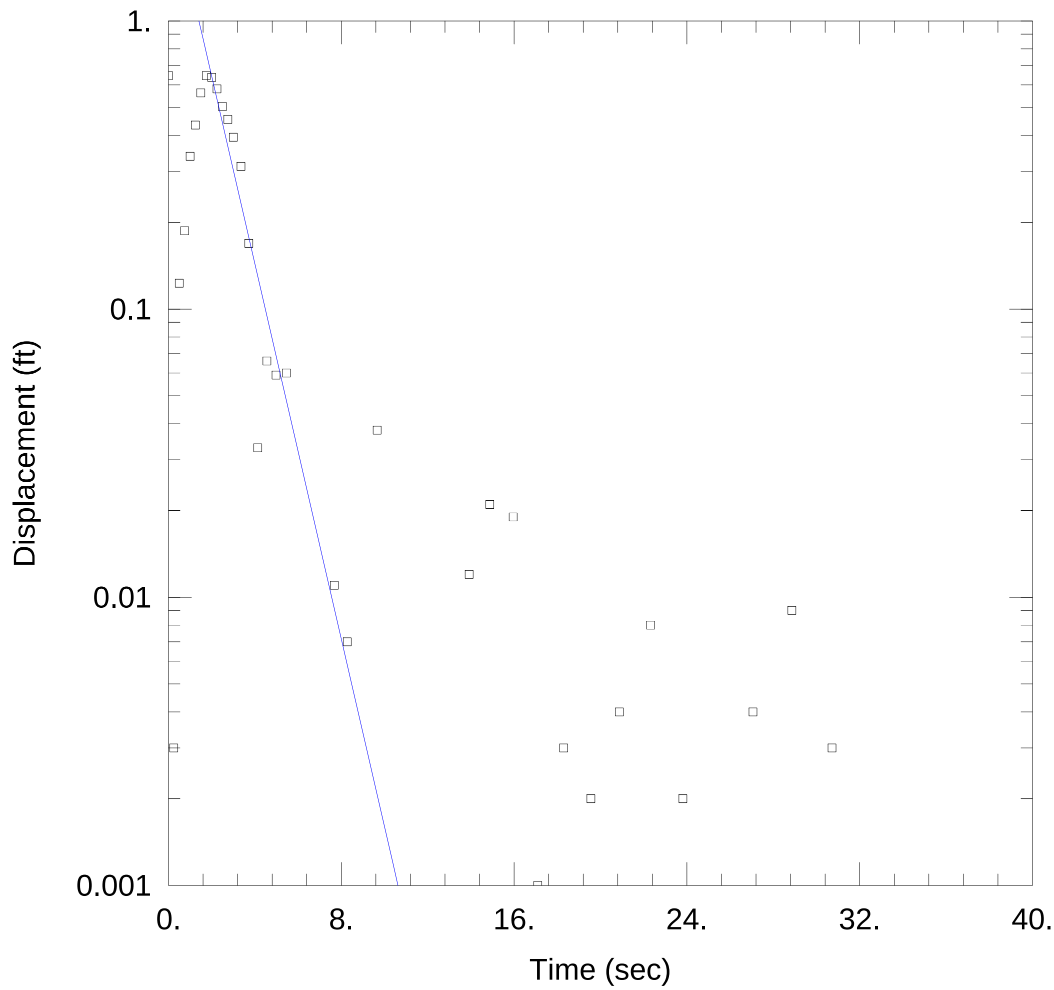
WELL DATA (MW-13B)

Initial Displacement: 0.646 ft
Static Water Column Height: 39.9 ft
Total Well Penetration Depth: 44. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1017 cm/sec
y0 = 3.369 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13Brise2.aqt
Date: 07/08/24 Time: 23:11:28

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 39.9 ft
Anisotropy Ratio (Kz/Kr): 1.

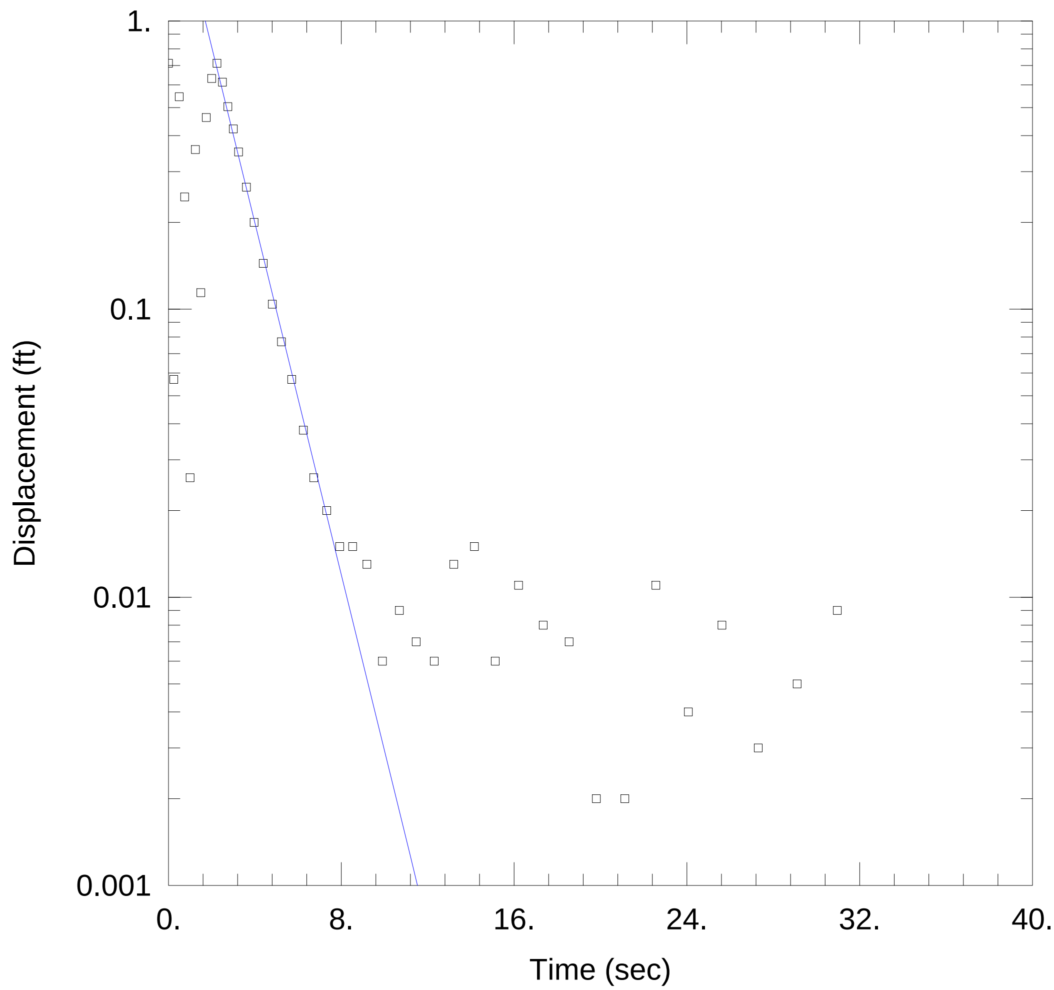
WELL DATA (MW-13B)

Initial Displacement: 0.646 ft
Static Water Column Height: 39.9 ft
Total Well Penetration Depth: 44. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1148 cm/sec
y0 = 2.878 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13falling1.aqt
Date: 07/08/24 Time: 22:19:35

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.784 ft
Anisotropy Ratio (Kz/Kr): 1.

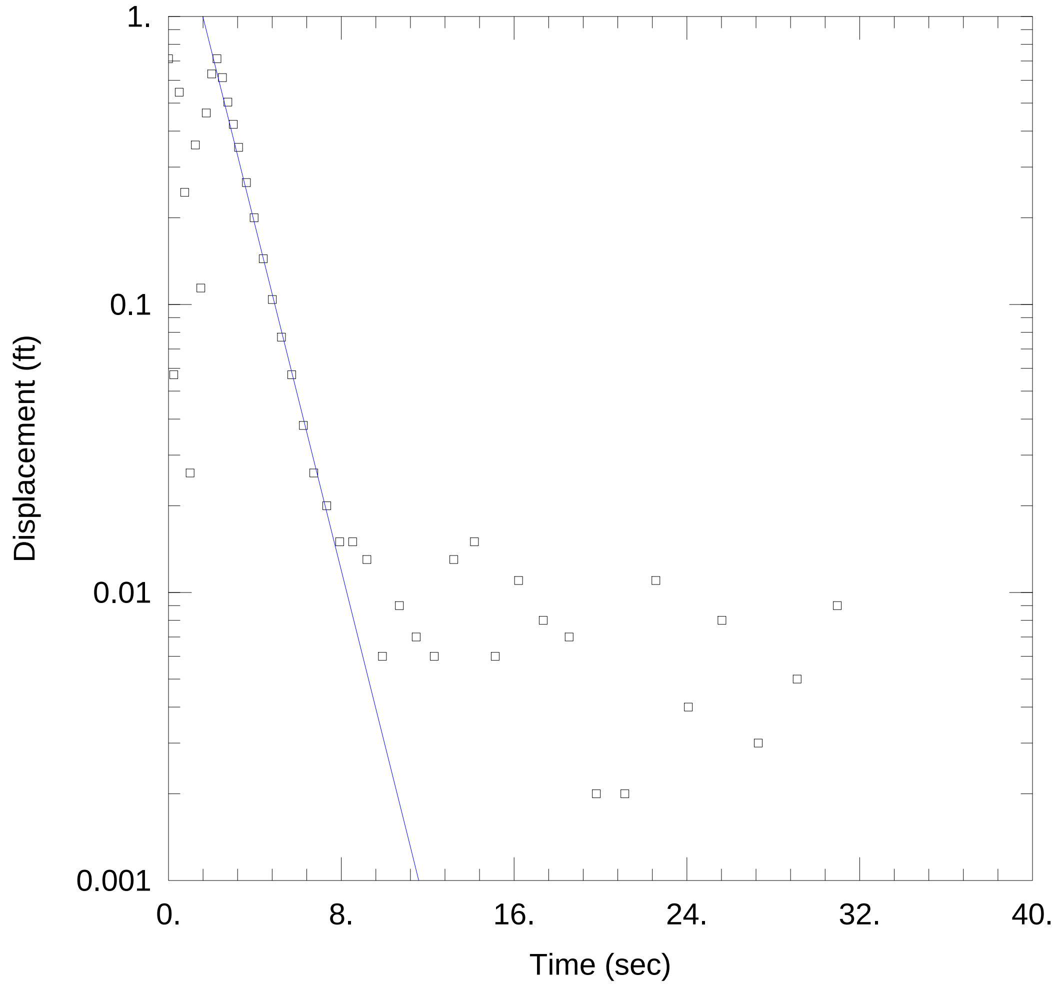
WELL DATA (MW-13A)

Initial Displacement: 0.713 ft
Static Water Column Height: 5.784 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1345 cm/sec
y0 = 3.316 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13falling1.aqt
Date: 07/08/24 Time: 22:20:53

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.784 ft
Anisotropy Ratio (Kz/Kr): 1.

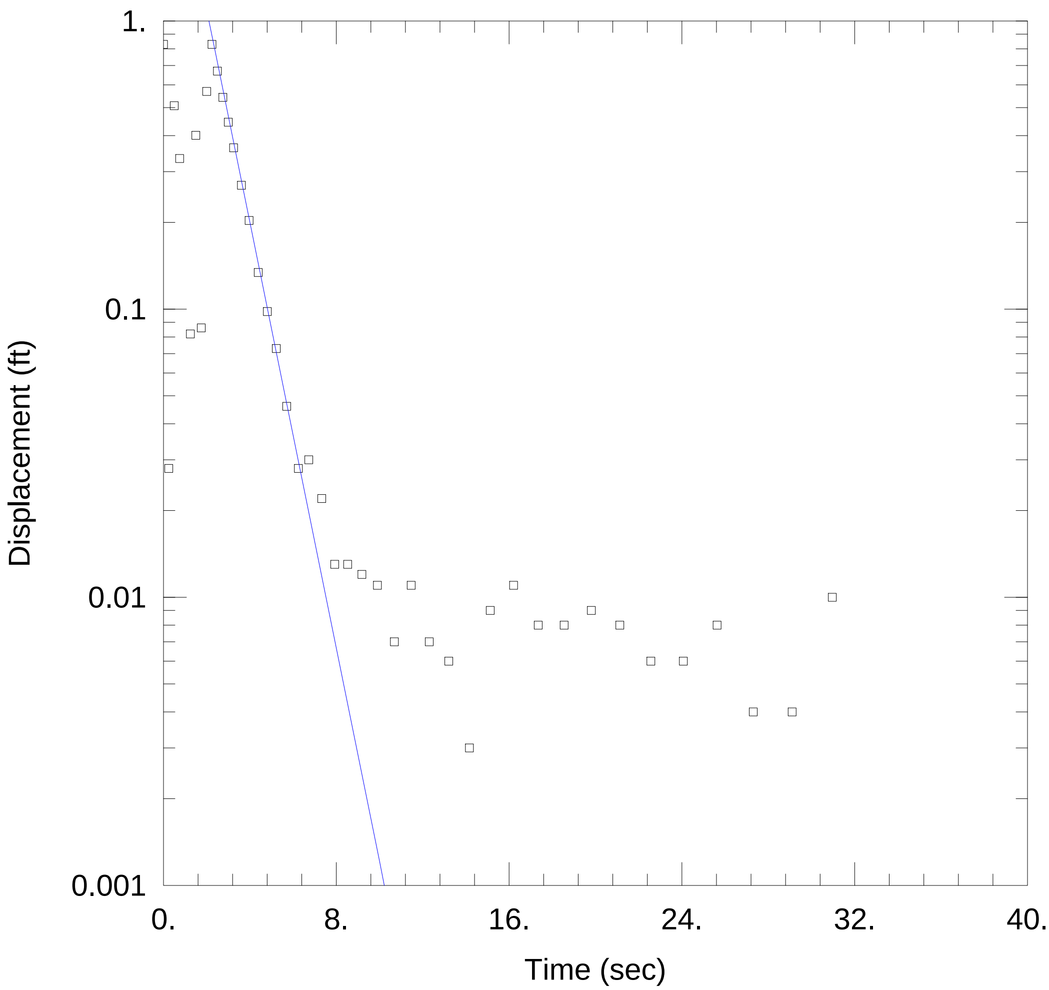
WELL DATA (MW-13A)

Initial Displacement: 0.713 ft
Static Water Column Height: 5.784 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.181 cm/sec
y0 = 2.998 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13falling2.aqt
Date: 07/08/24 Time: 22:28:23

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.781 ft
Anisotropy Ratio (Kz/Kr): 1.

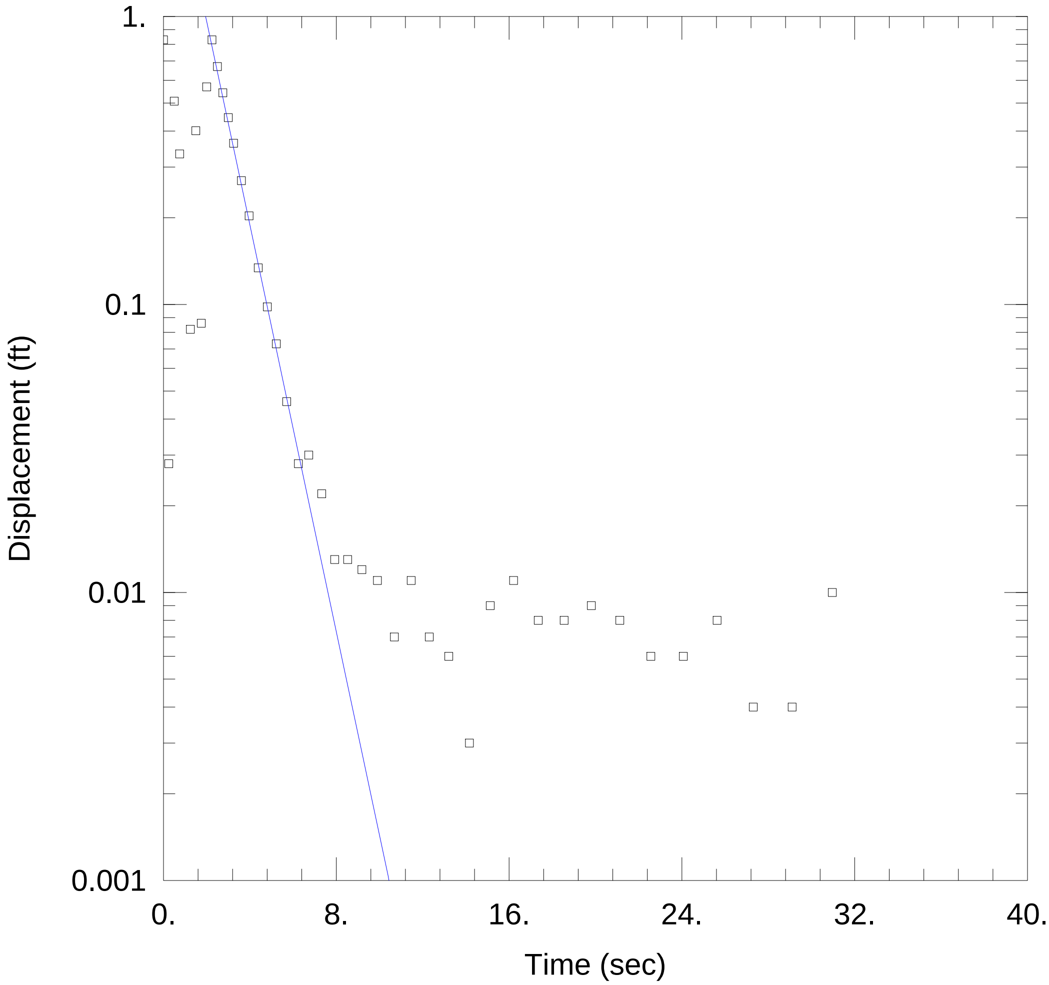
WELL DATA (MW-13A)

Initial Displacement: 0.829 ft
Static Water Column Height: 5.781 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1628 cm/sec
y0 = 6.008 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw13falling2.aqt
Date: 07/08/24 Time: 22:27:35

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 5.781 ft
Anisotropy Ratio (Kz/Kr): 1.

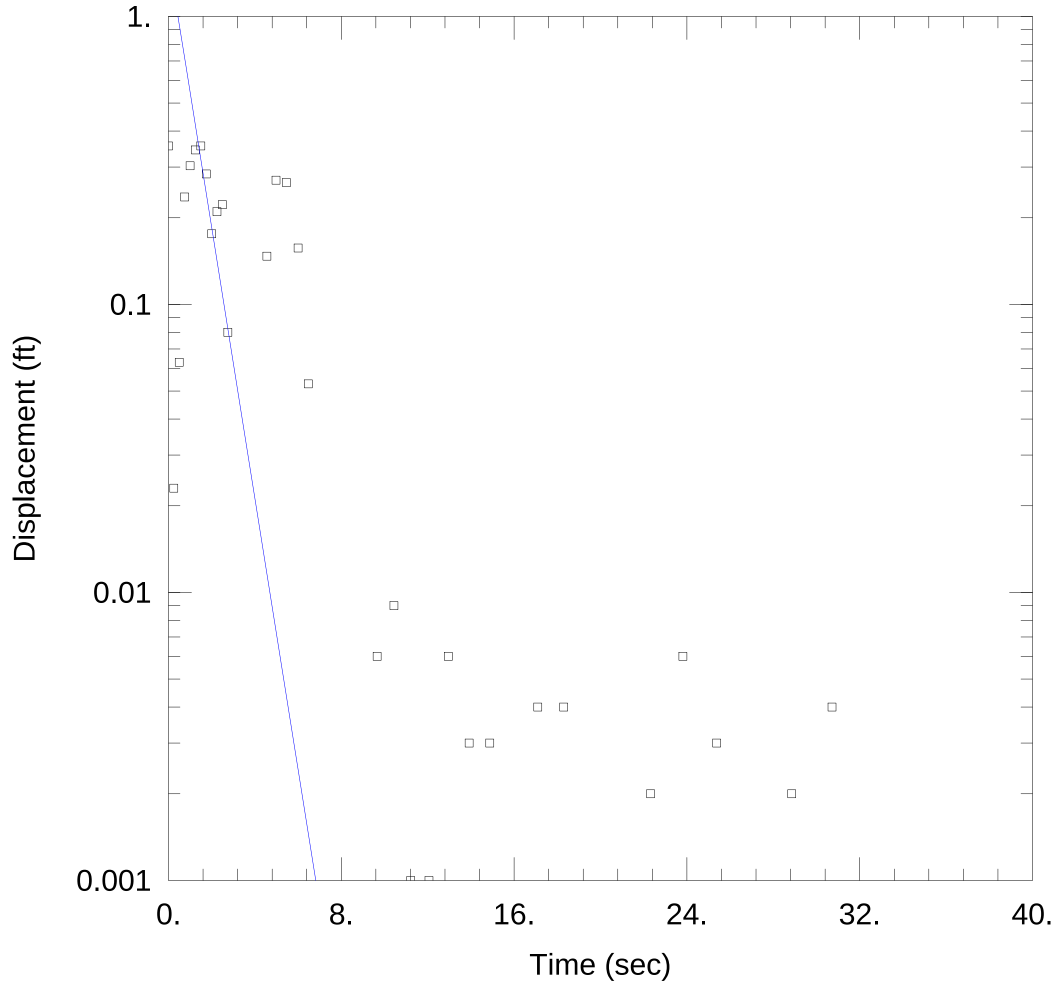
WELL DATA (MW-13A)

Initial Displacement: 0.829 ft
Static Water Column Height: 5.781 ft
Total Well Penetration Depth: 10. ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.213 cm/sec
y0 = 4.885 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15AFall1.aqt
Date: 07/09/24 Time: 00:22:30

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

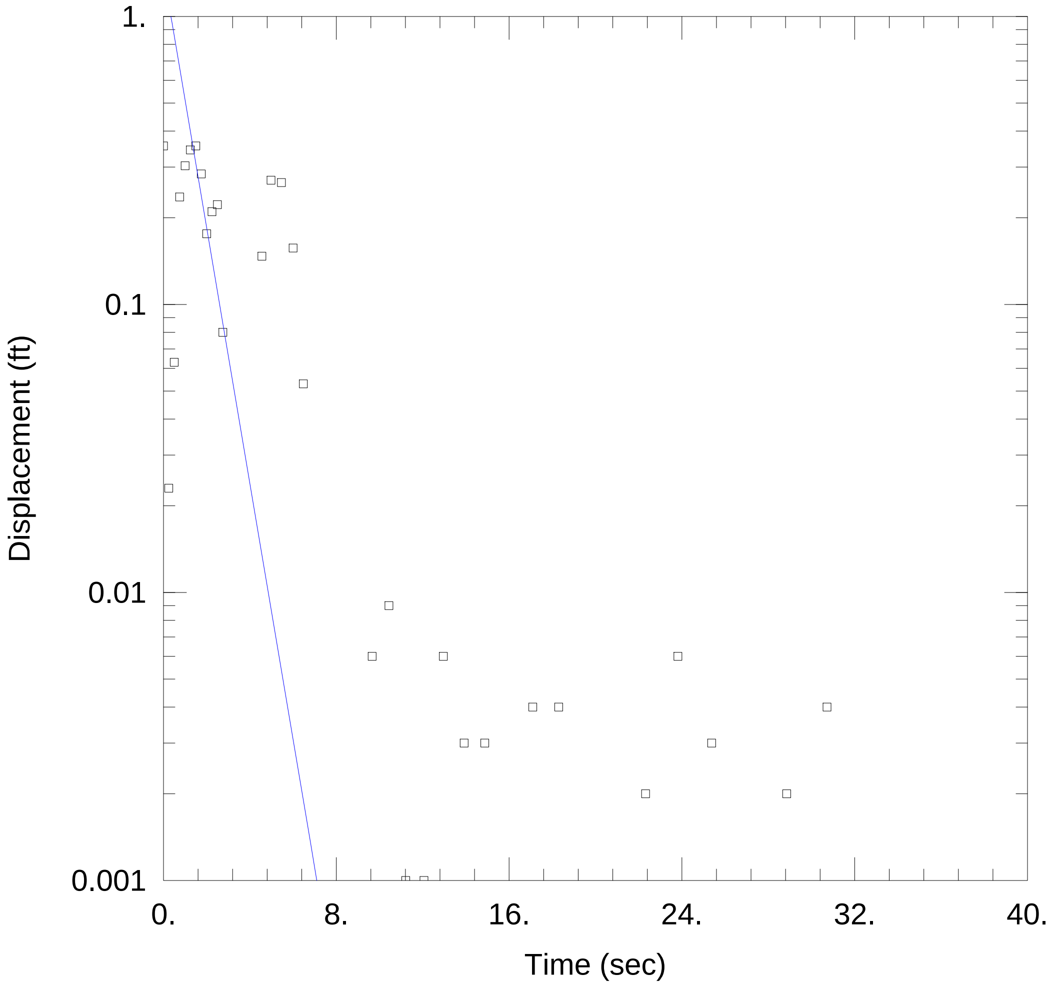
Saturated Thickness: 21.2 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15A)

Initial Displacement: 0.355 ft
Static Water Column Height: 21.2 ft
Total Well Penetration Depth: 28. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.131 cm/sec
y0 = 1.616 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15AFall1.aqt
Date: 07/09/24 Time: 00:23:29

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 21.2 ft
Anisotropy Ratio (Kz/Kr): 1.

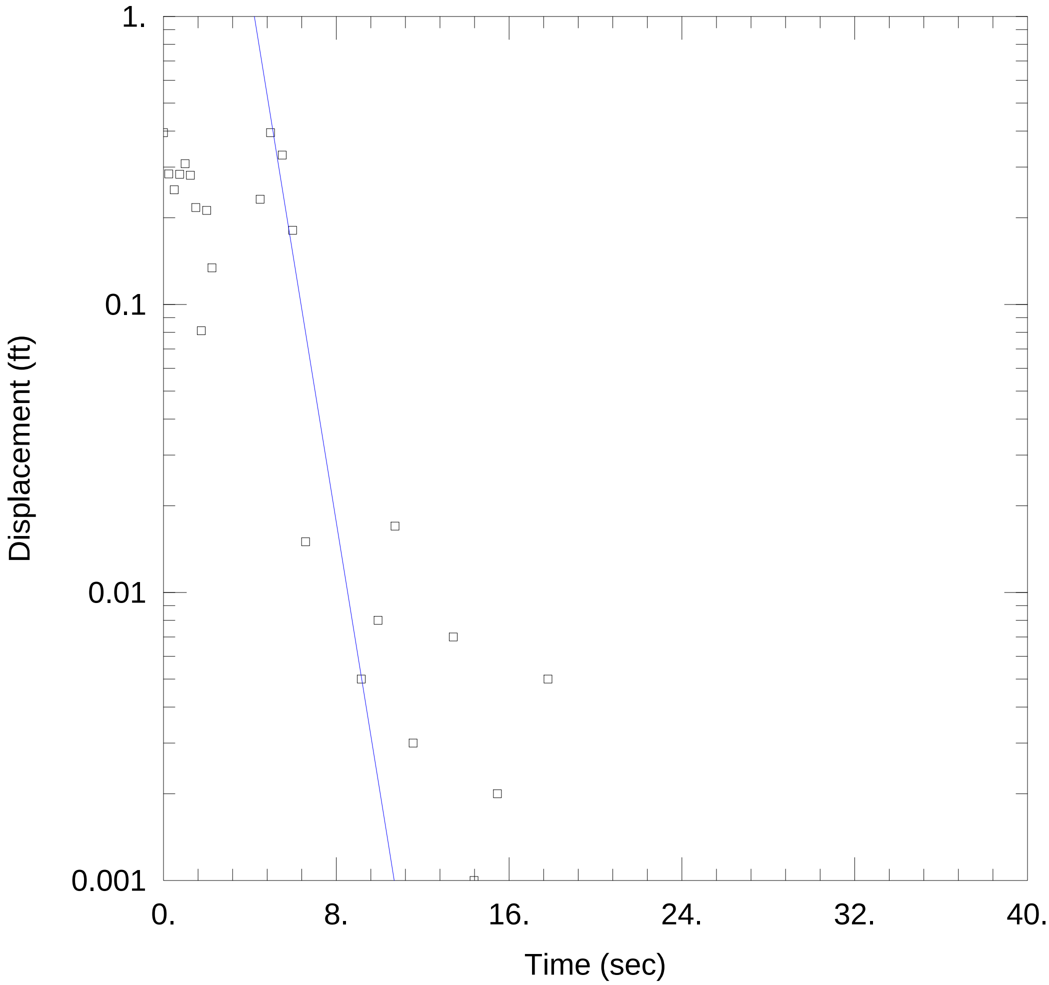
WELL DATA (MW-15A)

Initial Displacement: 0.355 ft
Static Water Column Height: 21.2 ft
Total Well Penetration Depth: 28. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1566 cm/sec
y0 = 1.425 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15AFall2.aqt
Date: 07/09/24 Time: 00:26:10

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 21.2 ft
Anisotropy Ratio (Kz/Kr): 1.

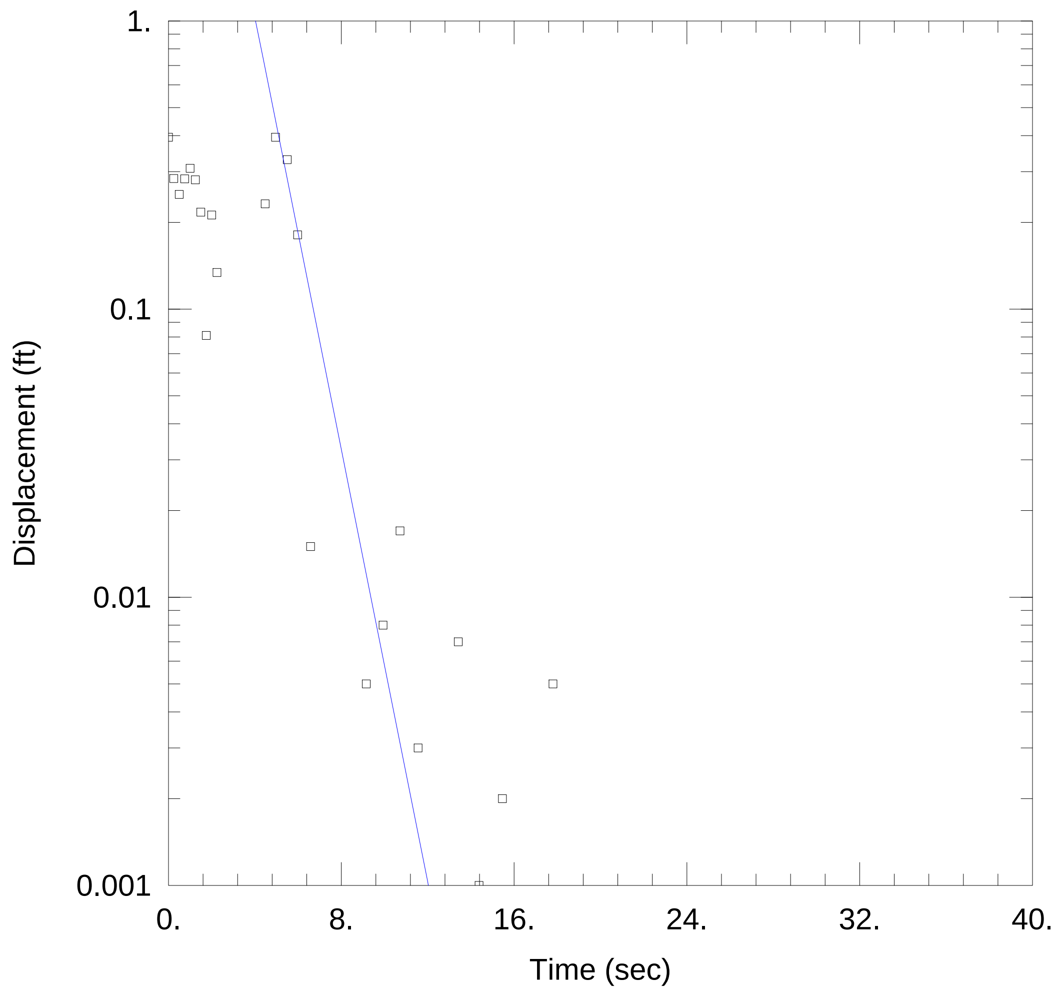
WELL DATA (MW-15A)

Initial Displacement: 0.395 ft
Static Water Column Height: 21.2 ft
Total Well Penetration Depth: 28. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.129 cm/sec
y0 = 88.85 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15AFall2.aqt
Date: 07/09/24 Time: 00:25:37

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 21.2 ft
Anisotropy Ratio (Kz/Kr): 1.

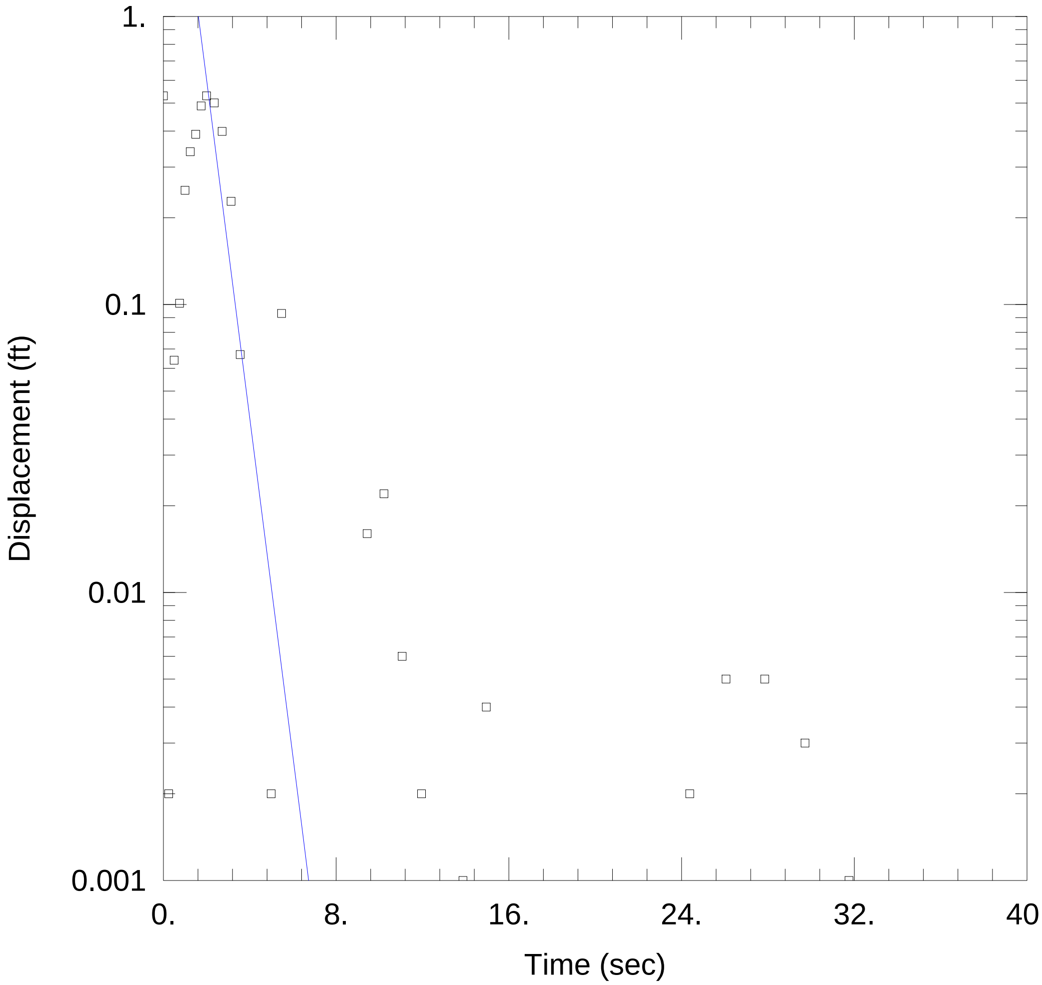
WELL DATA (MW-15A)

Initial Displacement: 0.395 ft
Total Well Penetration Depth: 28. ft
Casing Radius: 0.167 ft
Static Water Column Height: 21.2 ft
Screen Length: 10. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1323 cm/sec
y0 = 32.65 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15ARise1.aqt
Date: 07/09/24 Time: 00:12:47

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 21.2 ft
Anisotropy Ratio (Kz/Kr): 1.

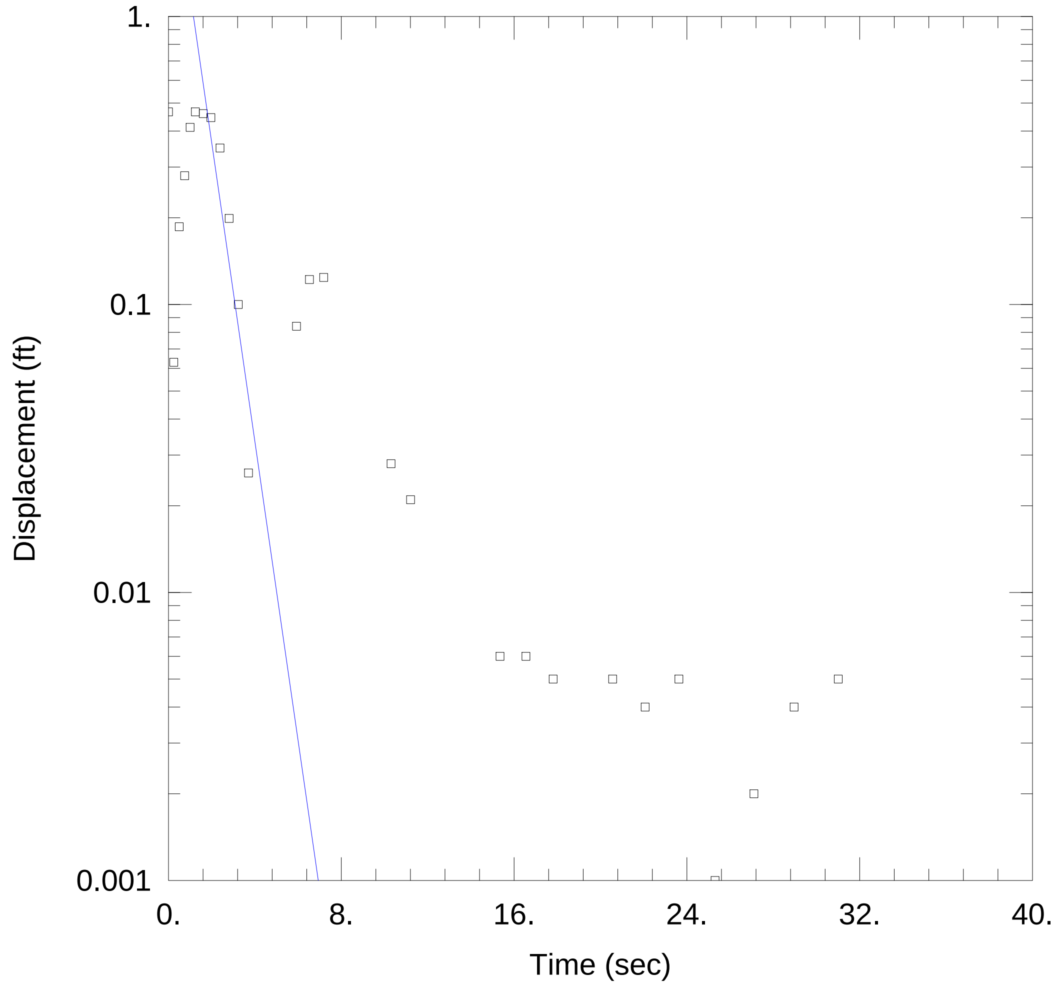
WELL DATA (MW-15A)

Initial Displacement: 0.53 ft
Static Water Column Height: 21.2 ft
Total Well Penetration Depth: 28. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1636 cm/sec
y0 = 9.021 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15ARise2.aqt
Date: 07/09/24 Time: 00:16:09

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 21.21 ft Anisotropy Ratio (Kz/Kr): 1.

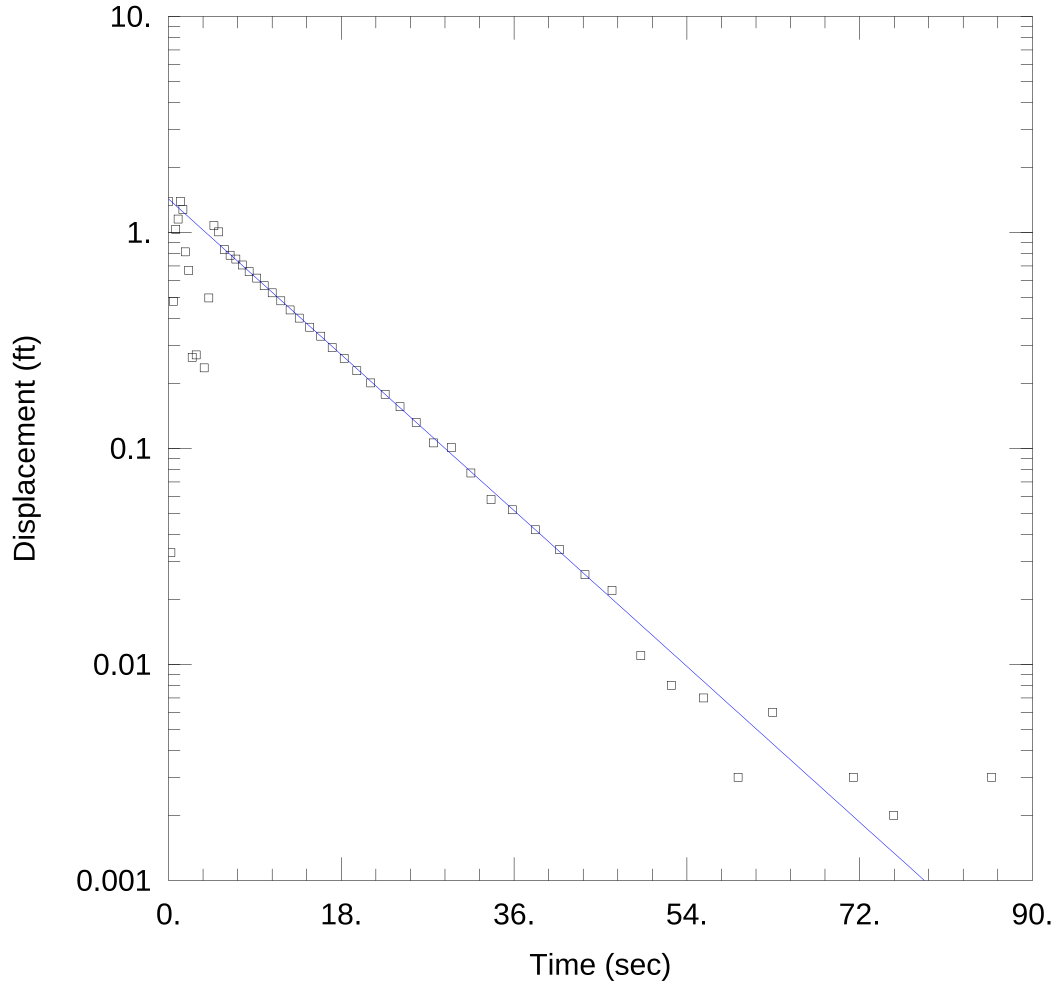
WELL DATA (MW-15A)

Initial Displacement: 0.466 ft Static Water Column Height: 21.21 ft
Total Well Penetration Depth: 28. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1831 cm/sec y0 = 3.986 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BFall1.aqt
Date: 07/09/24 Time: 12:00:46

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

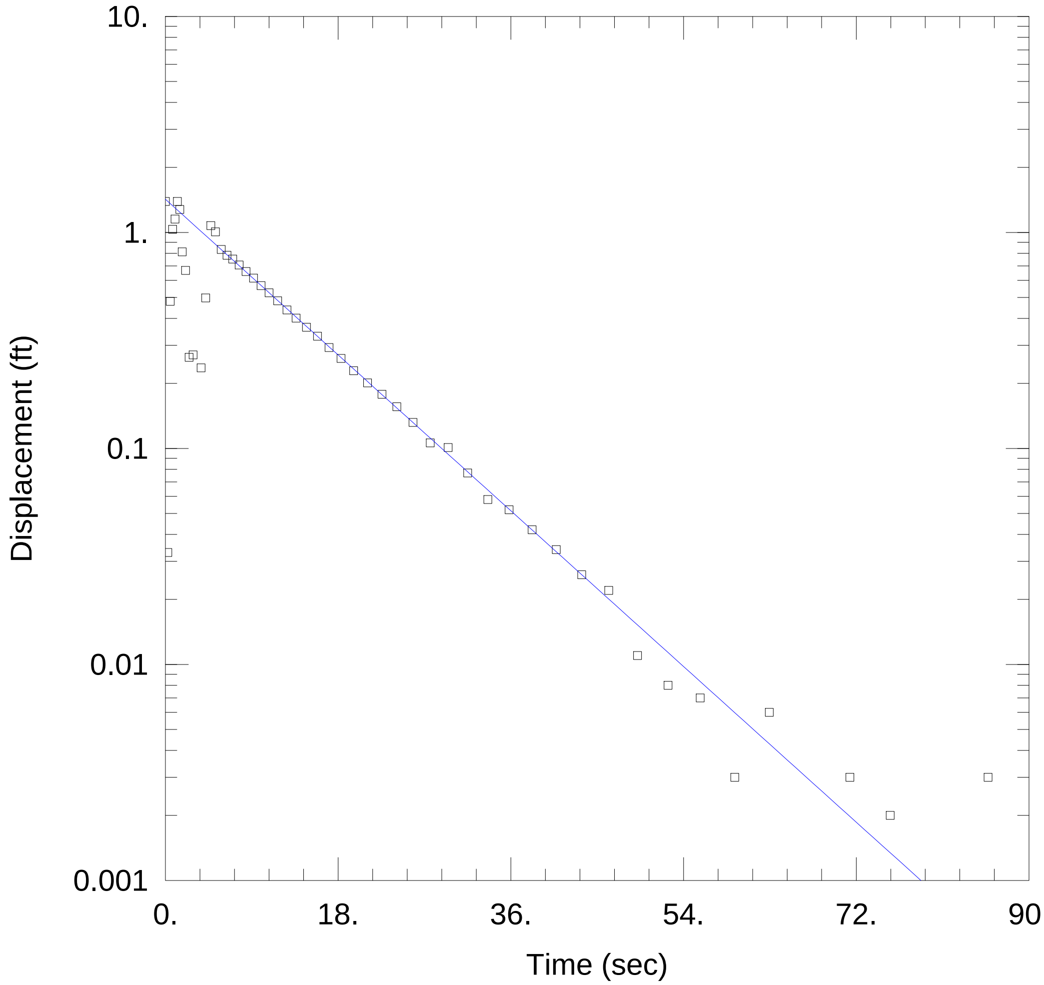
Saturated Thickness: 77.27 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15B)

Initial Displacement: 1.391 ft
Static Water Column Height: 77.27 ft
Total Well Penetration Depth: 84. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01303 cm/sec
y0 = 1.43 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BFall1.aqt
Date: 07/09/24 Time: 12:01:14

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 77.27 ft
Anisotropy Ratio (Kz/Kr): 1.

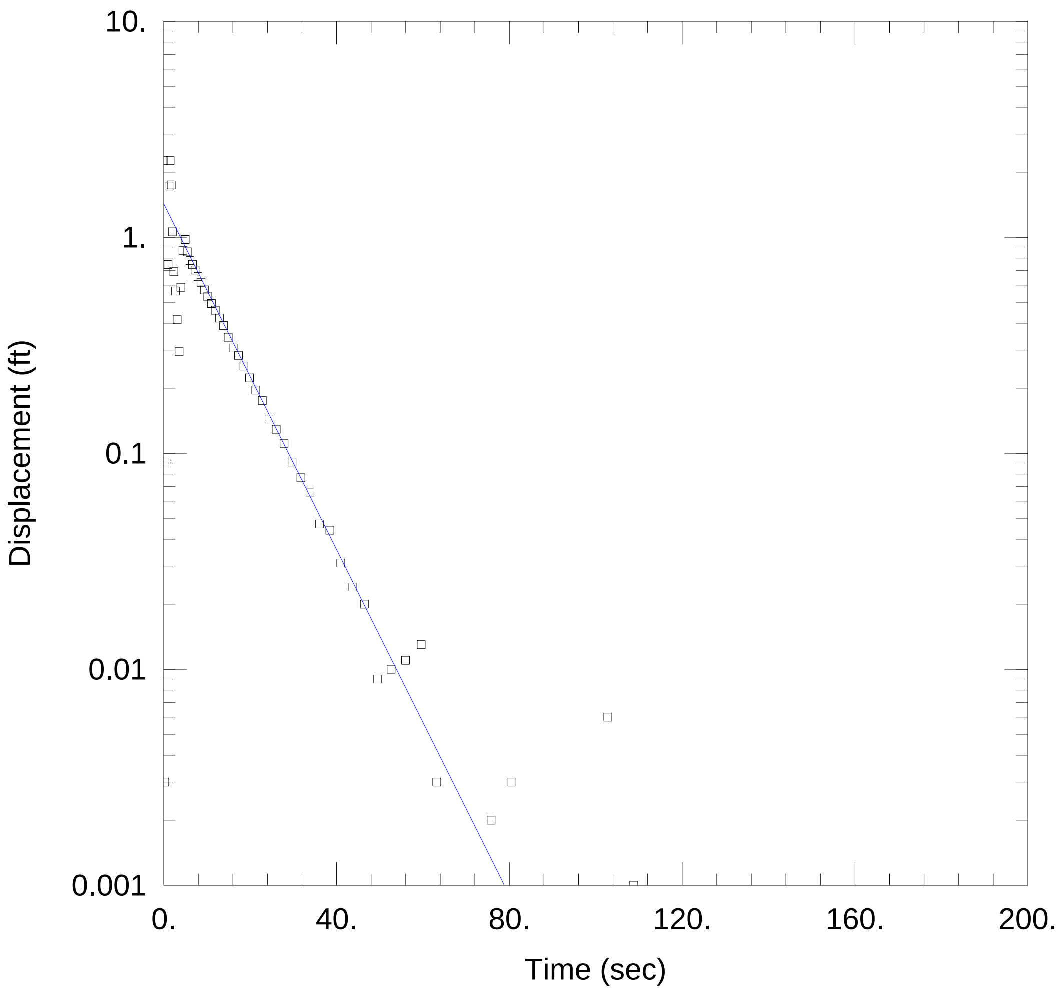
WELL DATA (MW-15B)

Initial Displacement: 1.391 ft
Static Water Column Height: 77.27 ft
Total Well Penetration Depth: 84. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.01412 cm/sec
y0 = 1.425 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BFall2.aqt
Date: 07/09/24 Time: 12:03:58

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 77.3 ft Anisotropy Ratio (Kz/Kr): 1.

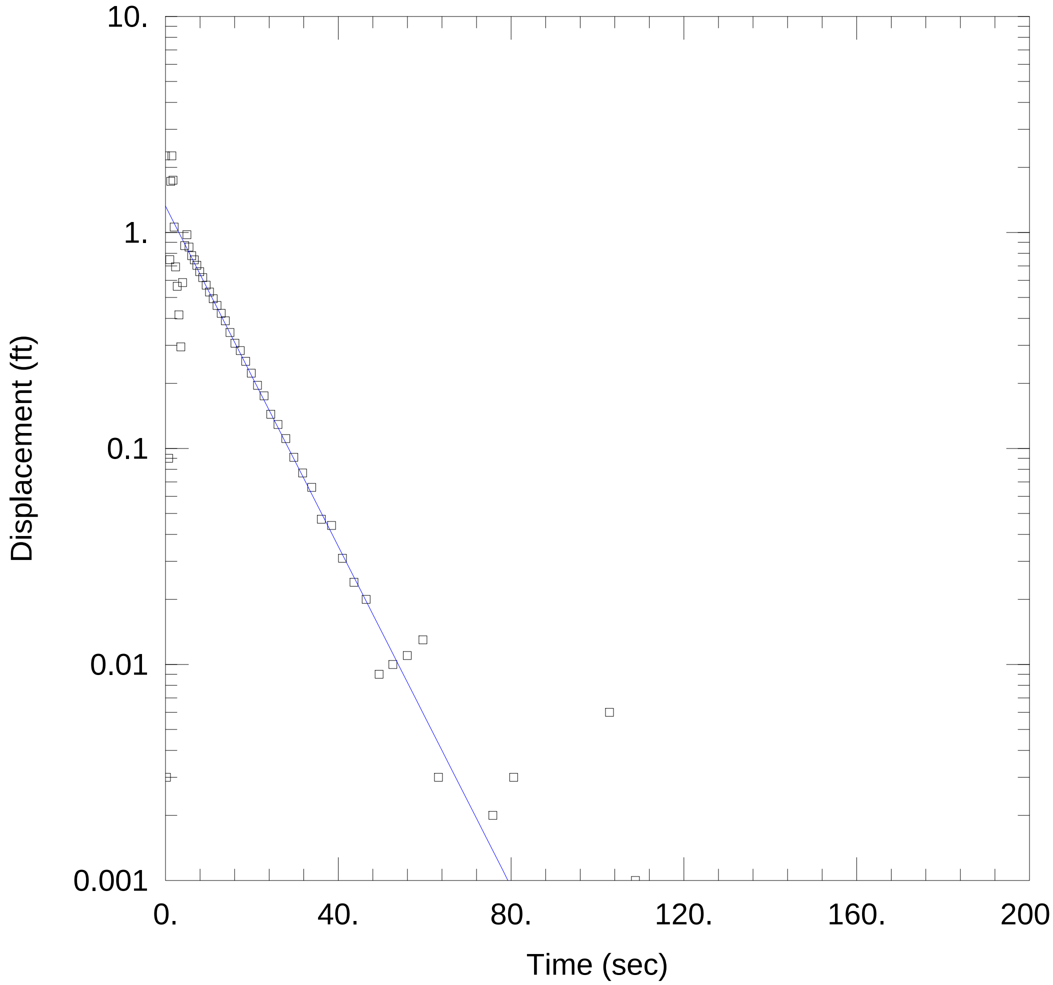
WELL DATA (MW-15B)

Initial Displacement: 2.262 ft Static Water Column Height: 77.3 ft
Total Well Penetration Depth: 84. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01301 cm/sec y0 = 1.427 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BFall2.aqt
Date: 07/09/24 Time: 12:03:15

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 77.3 ft
Anisotropy Ratio (Kz/Kr): 1.

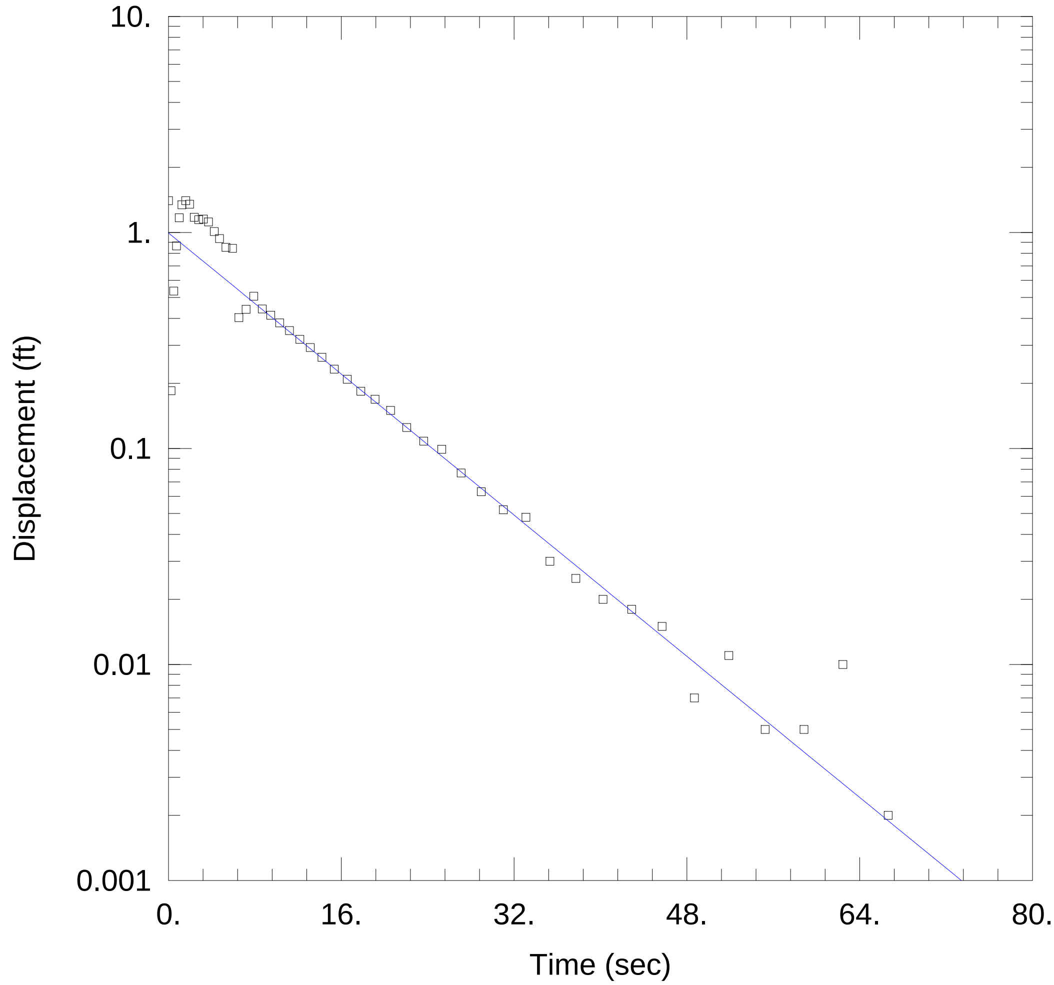
WELL DATA (MW-15B)

Initial Displacement: 2.262 ft
Static Water Column Height: 77.3 ft
Total Well Penetration Depth: 84. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.01388 cm/sec
y0 = 1.323 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BRise1.aqt
Date: 07/09/24 Time: 11:51:30

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 77.28 ft
Anisotropy Ratio (Kz/Kr): 1.

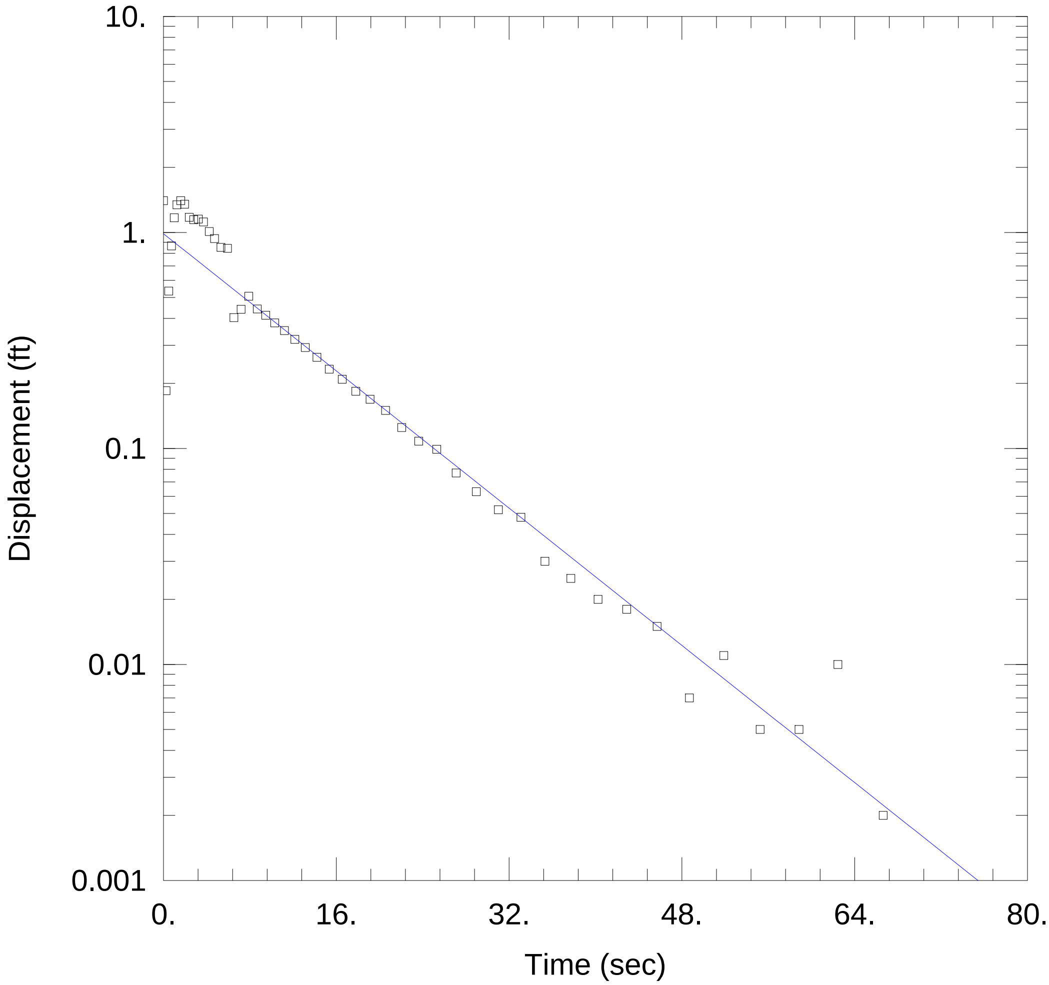
WELL DATA (MW-15B)

Initial Displacement: 1.403 ft
Static Water Column Height: 77.28 ft
Total Well Penetration Depth: 84. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.01327 cm/sec
y0 = 0.9946 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BRise1.aqt
Date: 07/09/24 Time: 11:53:14

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 77.28 ft
Anisotropy Ratio (Kz/Kr): 1.

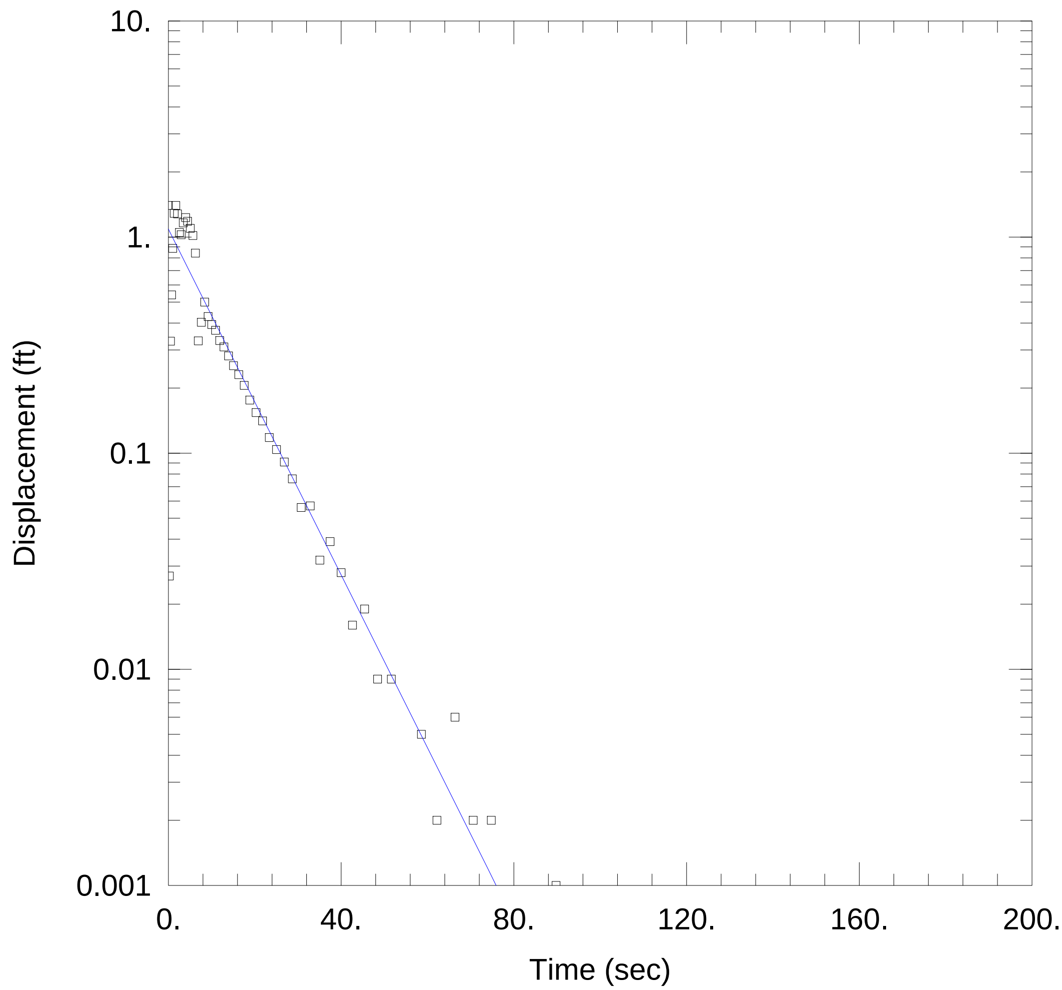
WELL DATA (MW-15B)

Initial Displacement: 1.403 ft
Total Well Penetration Depth: 84. ft
Casing Radius: 0.167 ft
Static Water Column Height: 77.28 ft
Screen Length: 10. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.014 cm/sec
y0 = 0.986 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BRise2.aqt
Date: 07/09/24 Time: 11:57:22

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 77.29 ft Anisotropy Ratio (Kz/Kr): 1.

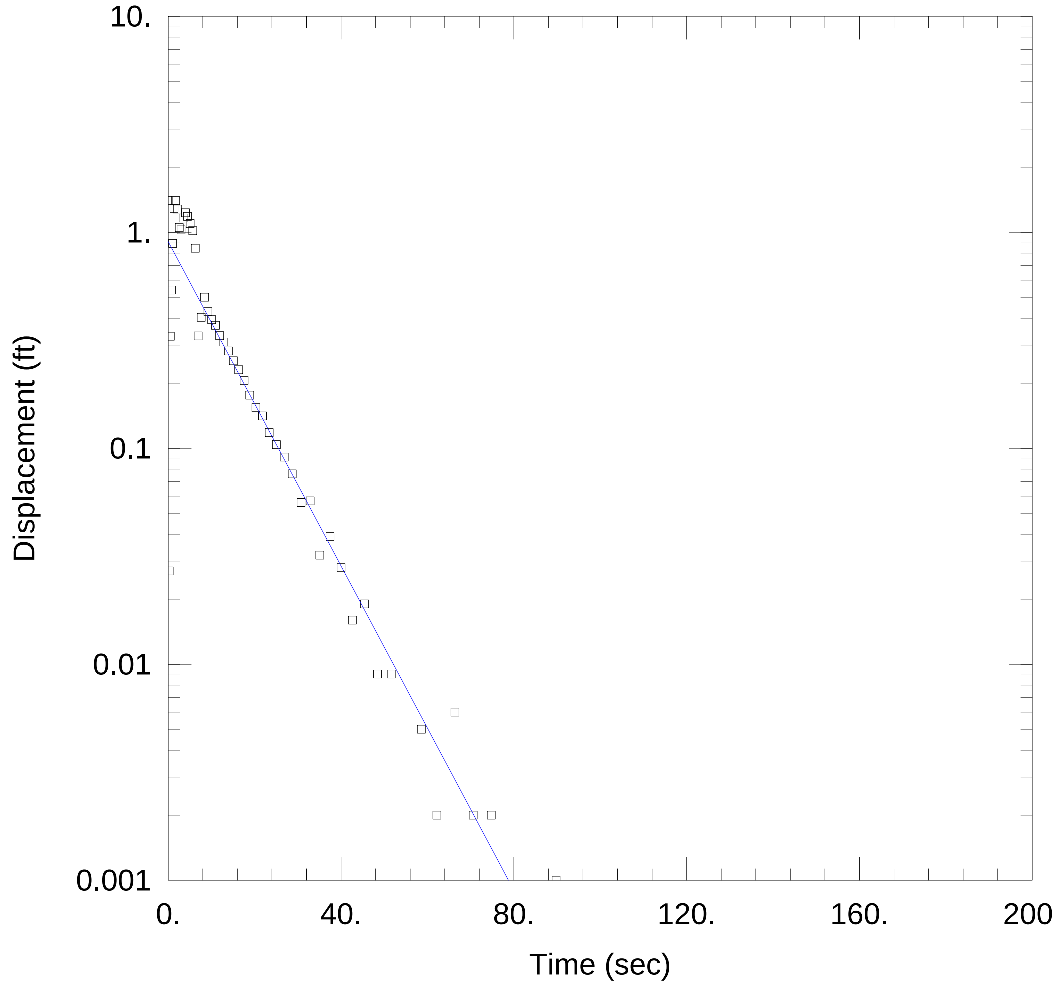
WELL DATA (MW-15B)

Initial Displacement: 1.4 ft Static Water Column Height: 77.29 ft
Total Well Penetration Depth: 84. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01301 cm/sec y0 = 1.089 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw15BRise2.aqt
Date: 07/09/24 Time: 11:55:49

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

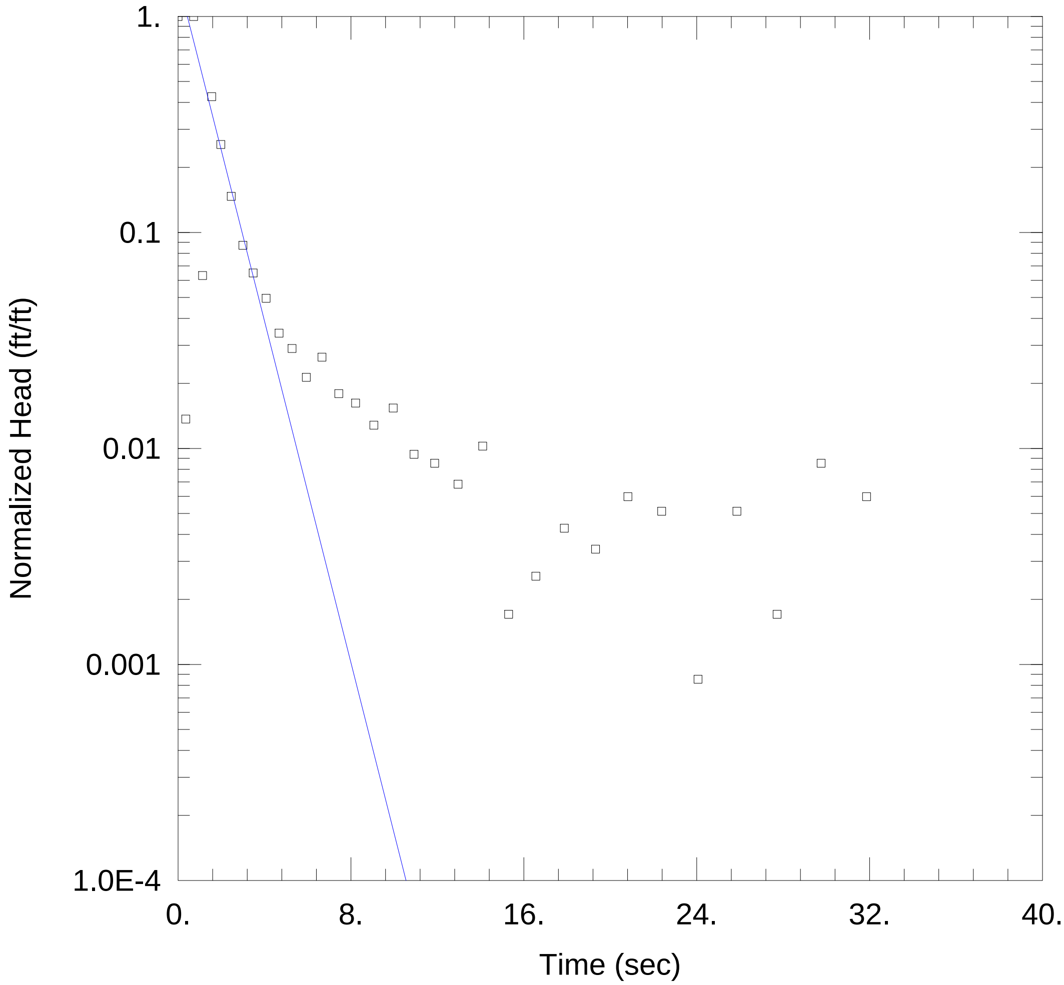
Saturated Thickness: 77.29 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-15B)

Initial Displacement: 1.4 ft
Total Well Penetration Depth: 84. ft
Casing Radius: 0.167 ft
Static Water Column Height: 77.29 ft
Screen Length: 10. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.01324 cm/sec
y0 = 0.9042 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22aFall1.aqt
Date: 07/09/24 Time: 12:47:10

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

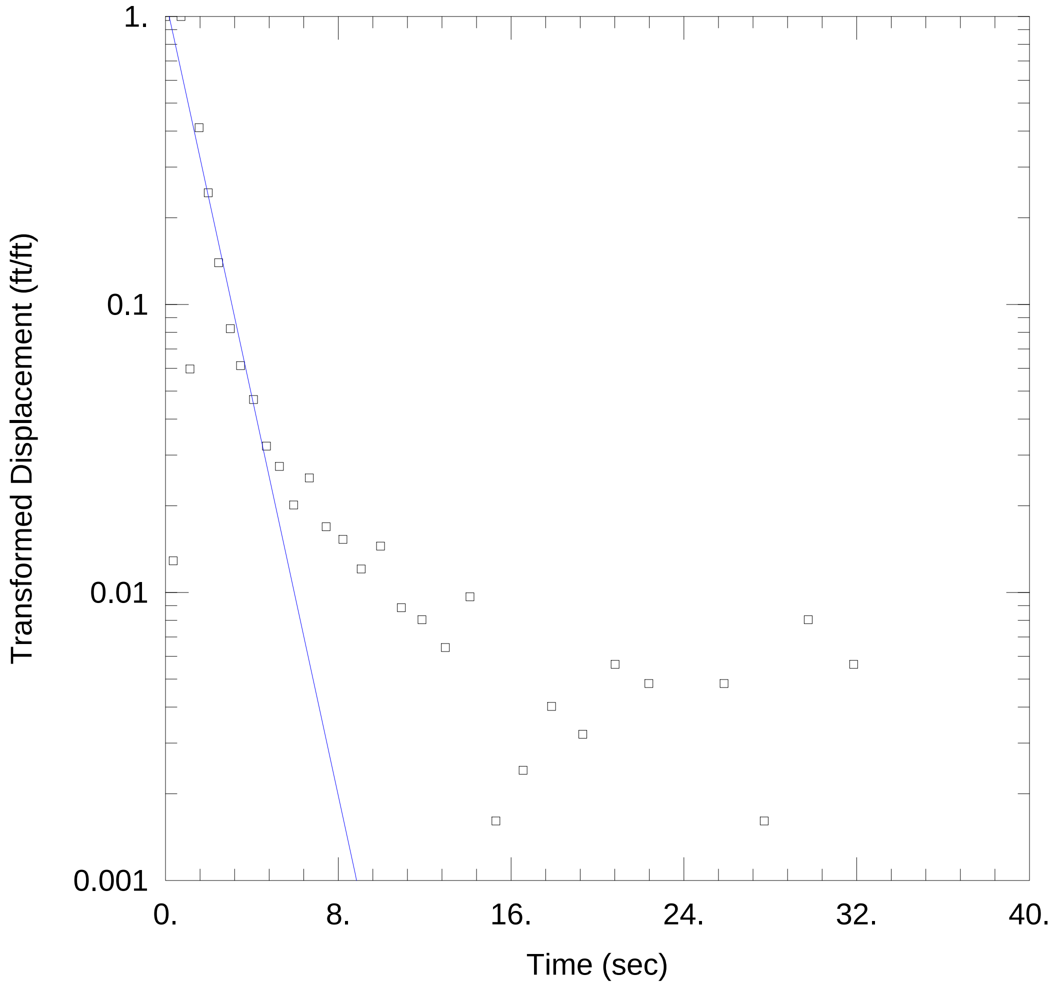
Saturated Thickness: 8.576 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-22A)

Initial Displacement: 1.171 ft
Static Water Column Height: 8.576 ft
Total Well Penetration Depth: 14. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.113 cm/sec
y0 = 1.735 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22aFall1.aqt
Date: 07/09/24 Time: 12:45:18

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 8.576 ft
Anisotropy Ratio (Kz/Kr): 1.

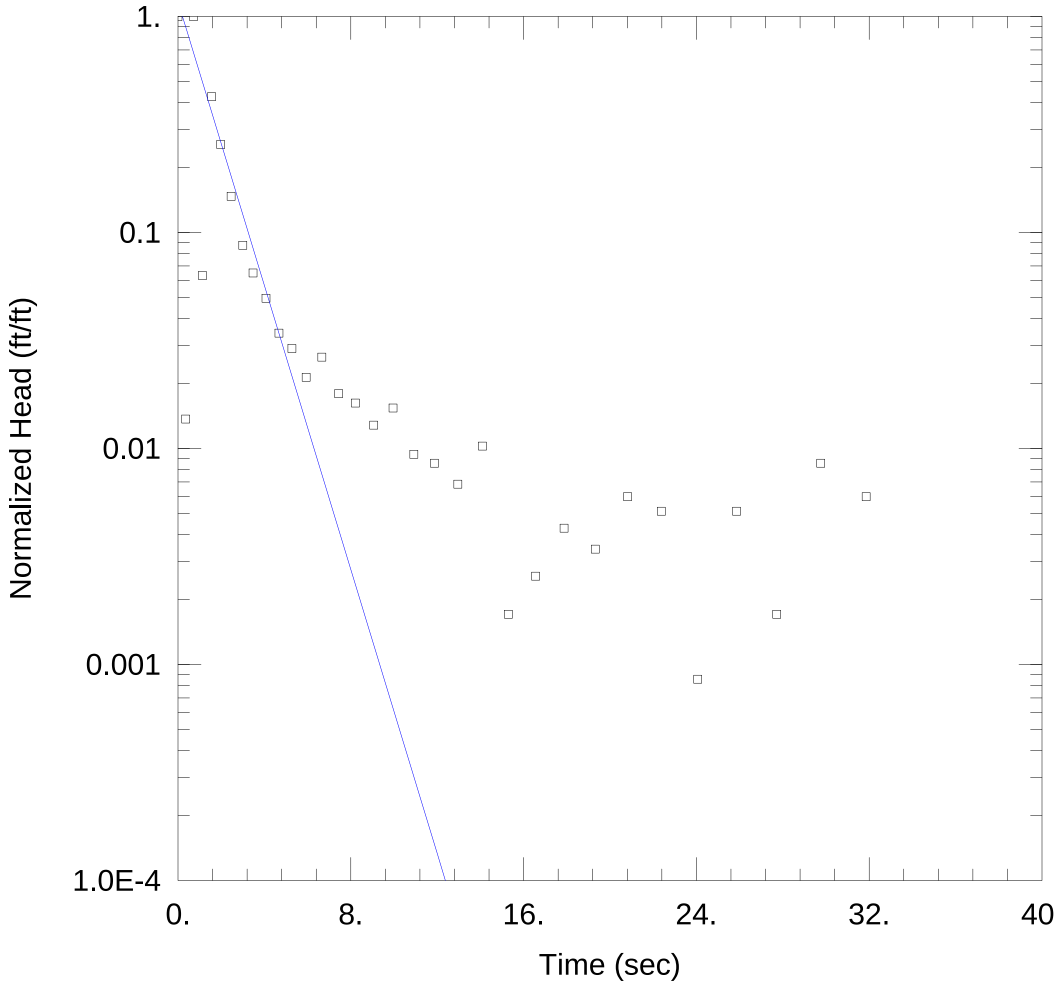
WELL DATA (MW-22A)

Initial Displacement: 1.171 ft
Static Water Column Height: 8.576 ft
Total Well Penetration Depth: 14. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Dagan

K = 0.1066 cm/sec
y0 = 1.33 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22aFall1.aqt
Date: 07/09/24 Time: 12:46:25

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 8.576 ft
Anisotropy Ratio (Kz/Kr): 1.

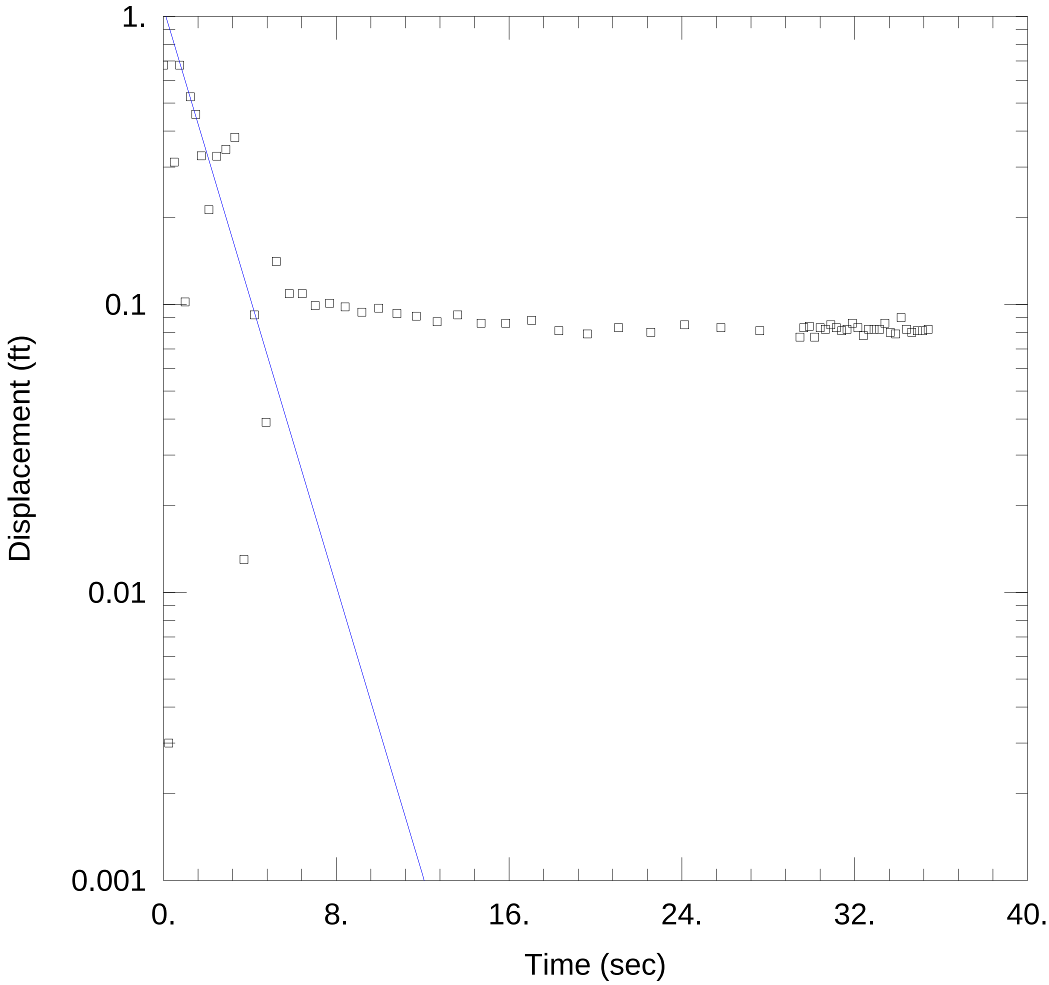
WELL DATA (MW-22A)

Initial Displacement: 1.171 ft
Static Water Column Height: 8.576 ft
Total Well Penetration Depth: 14. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1496 cm/sec
y0 = 1.372 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22aRise1.aqt
Date: 07/09/24 Time: 12:39:15

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 8.579 ft
Anisotropy Ratio (Kz/Kr): 1.

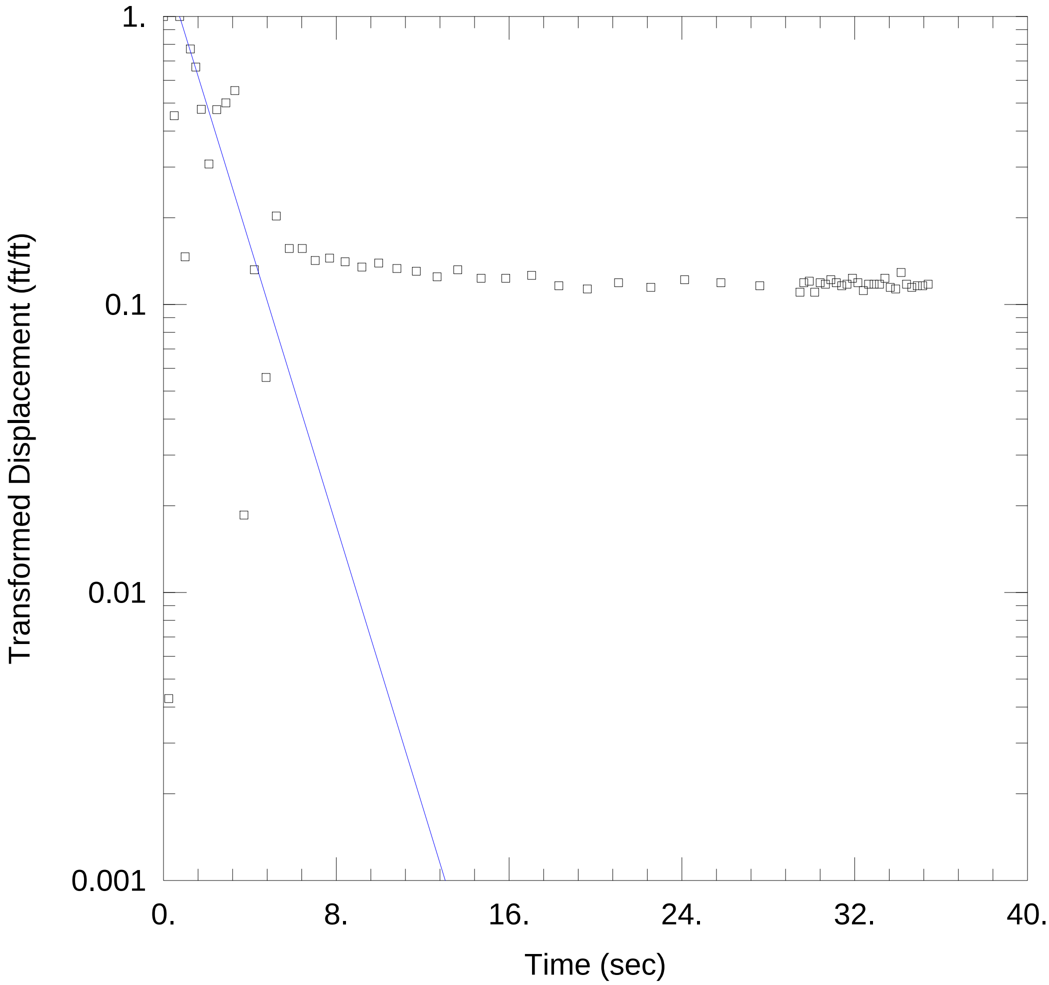
WELL DATA (MW-22A)

Initial Displacement: 0.677 ft
Static Water Column Height: 8.579 ft
Total Well Penetration Depth: 14. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.07165 cm/sec
y0 = 1.067 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22aRise1.aqt
Date: 07/09/24 Time: 12:43:16

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 8.579 ft Anisotropy Ratio (Kz/Kr): 1.

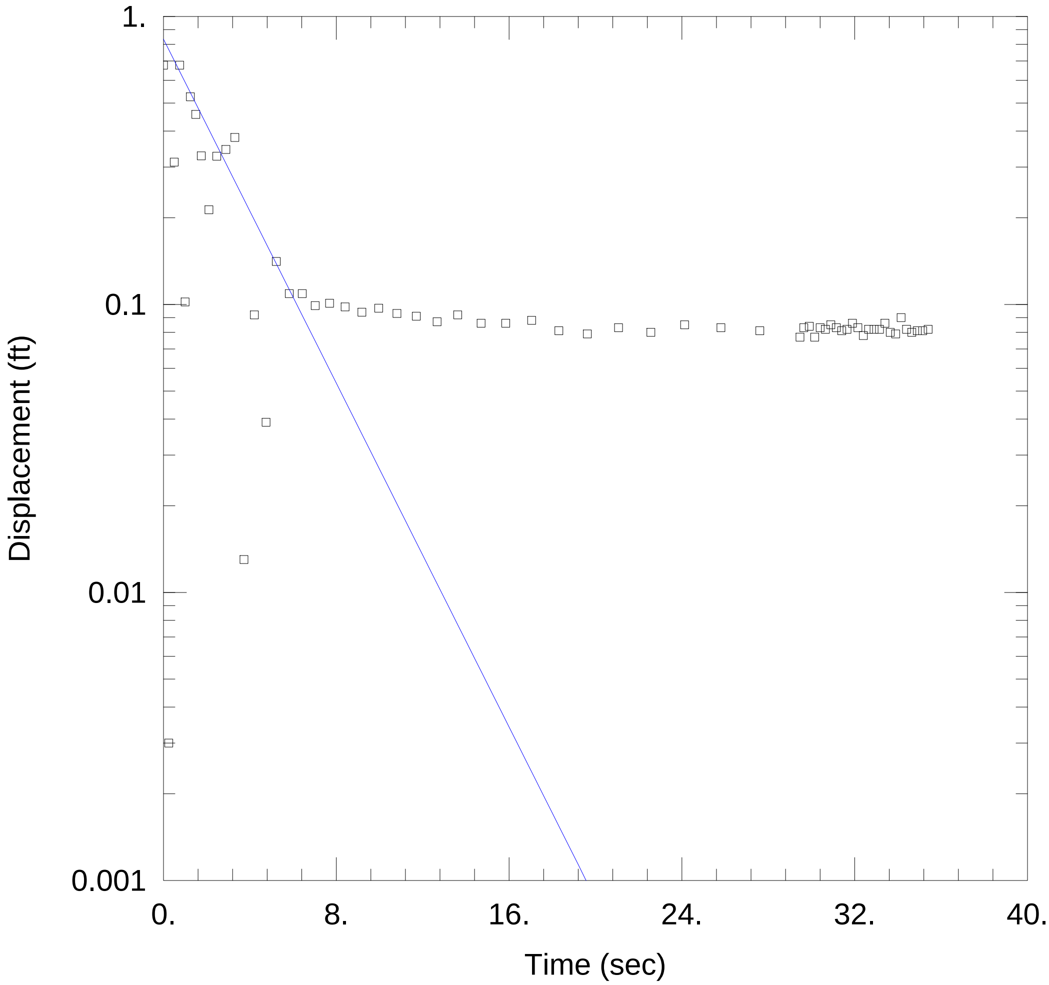
WELL DATA (MW-22A)

Initial Displacement: 0.677 ft Static Water Column Height: 8.579 ft
Total Well Penetration Depth: 14. ft Screen Length: 10. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Dagan

K = 0.07511 cm/sec y0 = 1.009 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22aRise1.aqt
Date: 07/09/24 Time: 12:40:12

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 8.579 ft
Anisotropy Ratio (Kz/Kr): 1.

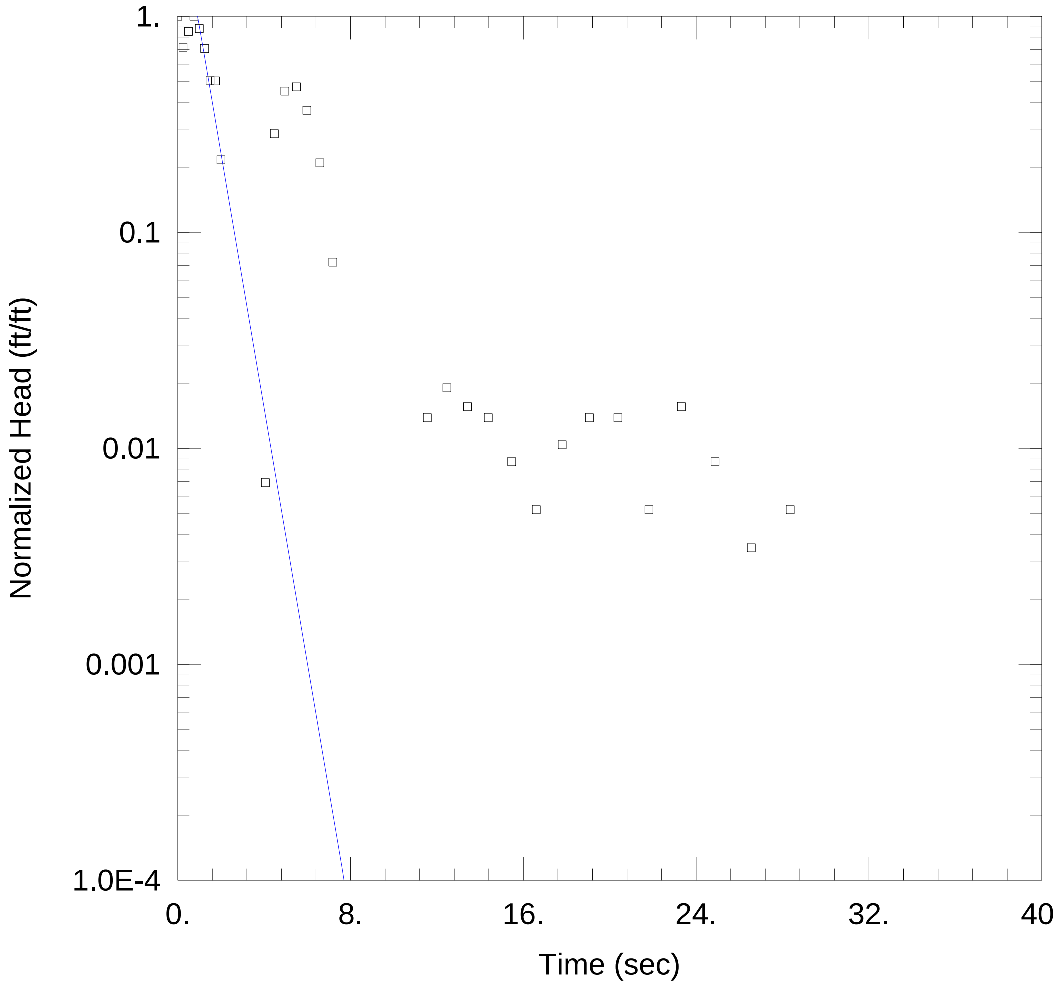
WELL DATA (MW-22A)

Initial Displacement: 0.677 ft
Static Water Column Height: 8.579 ft
Total Well Penetration Depth: 14. ft
Screen Length: 10. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.06793 cm/sec
y0 = 0.8333 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bFall1.aqt
Date: 07/09/24 Time: 15:05:14

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 36.75 ft Anisotropy Ratio (Kz/Kr): 1.

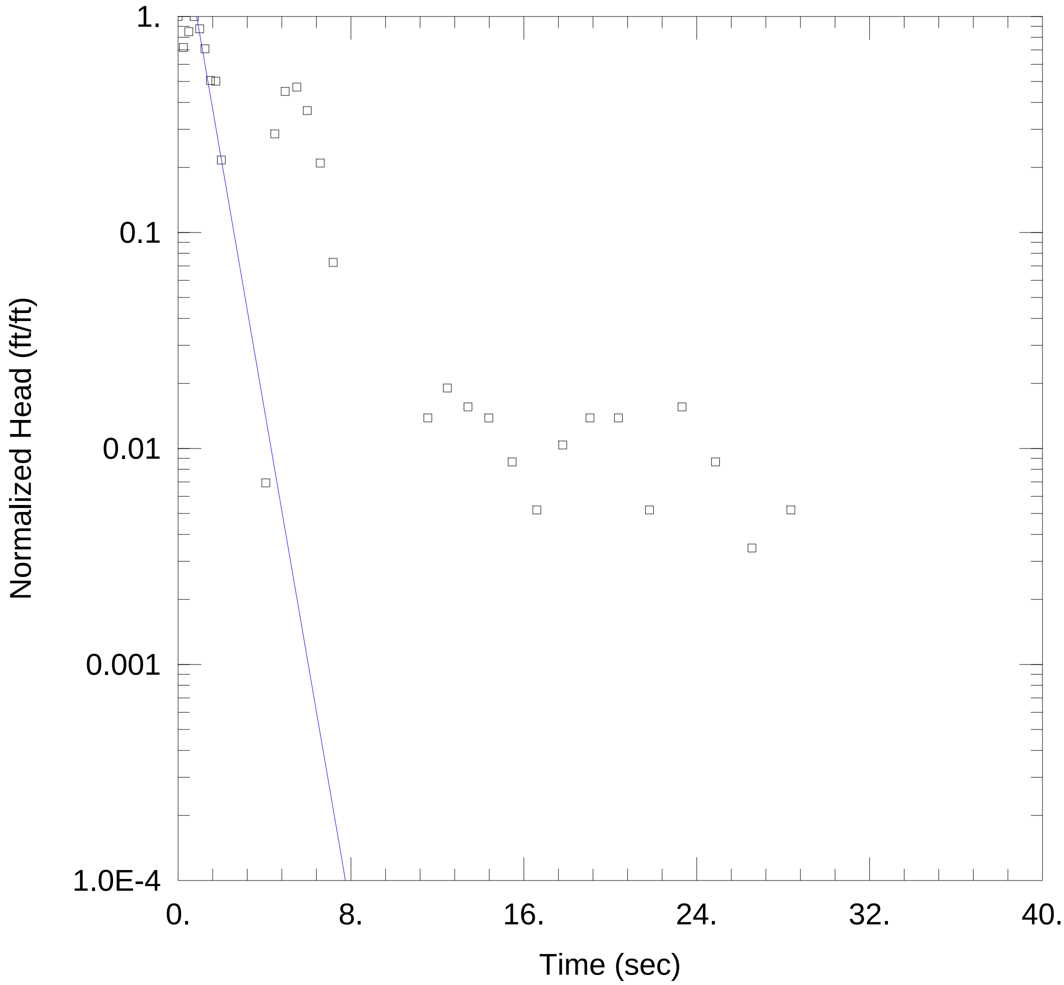
WELL DATA (MW-22B)

Initial Displacement: 0.578 ft Static Water Column Height: 36.75 ft
Total Well Penetration Depth: 44. ft Screen Length: 20. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.09117 cm/sec y0 = 2.031 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bFall1.aqt
Date: 07/09/24 Time: 15:06:26

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 36.75 ft Anisotropy Ratio (Kz/Kr): 1.

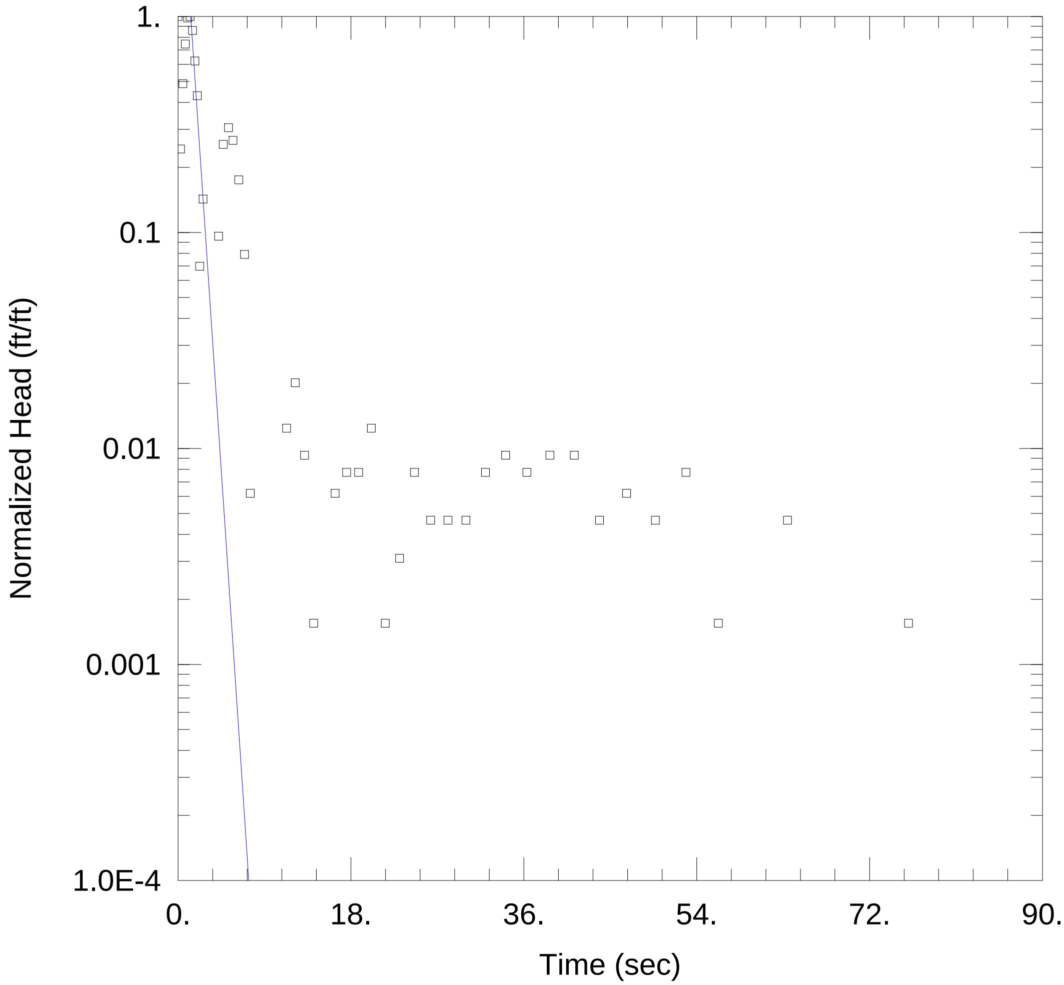
WELL DATA (MW-22B)

Initial Displacement: 0.578 ft Static Water Column Height: 36.75 ft
Total Well Penetration Depth: 44. ft Screen Length: 20. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1173 cm/sec y0 = 1.832 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bFall2.aqt
Date: 07/09/24 Time: 15:09:48

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 36.75 ft
Anisotropy Ratio (Kz/Kr): 1.

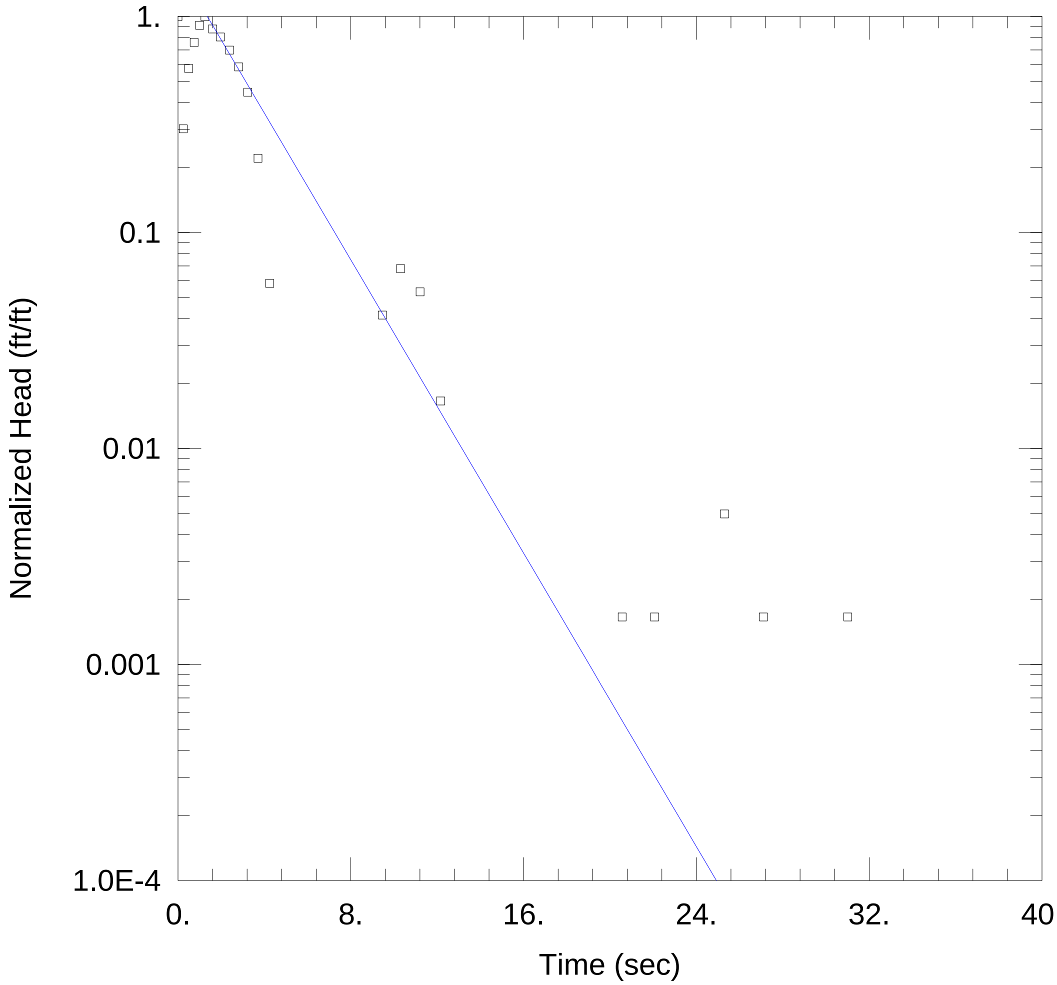
WELL DATA (MW-22B)

Initial Displacement: 0.645 ft
Static Water Column Height: 36.75 ft
Total Well Penetration Depth: 44. ft
Screen Length: 20. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1023 cm/sec
y0 = 4.854 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bRise1.aqt
Date: 07/09/24 Time: 14:55:38

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 36.74 ft Anisotropy Ratio (Kz/Kr): 1.

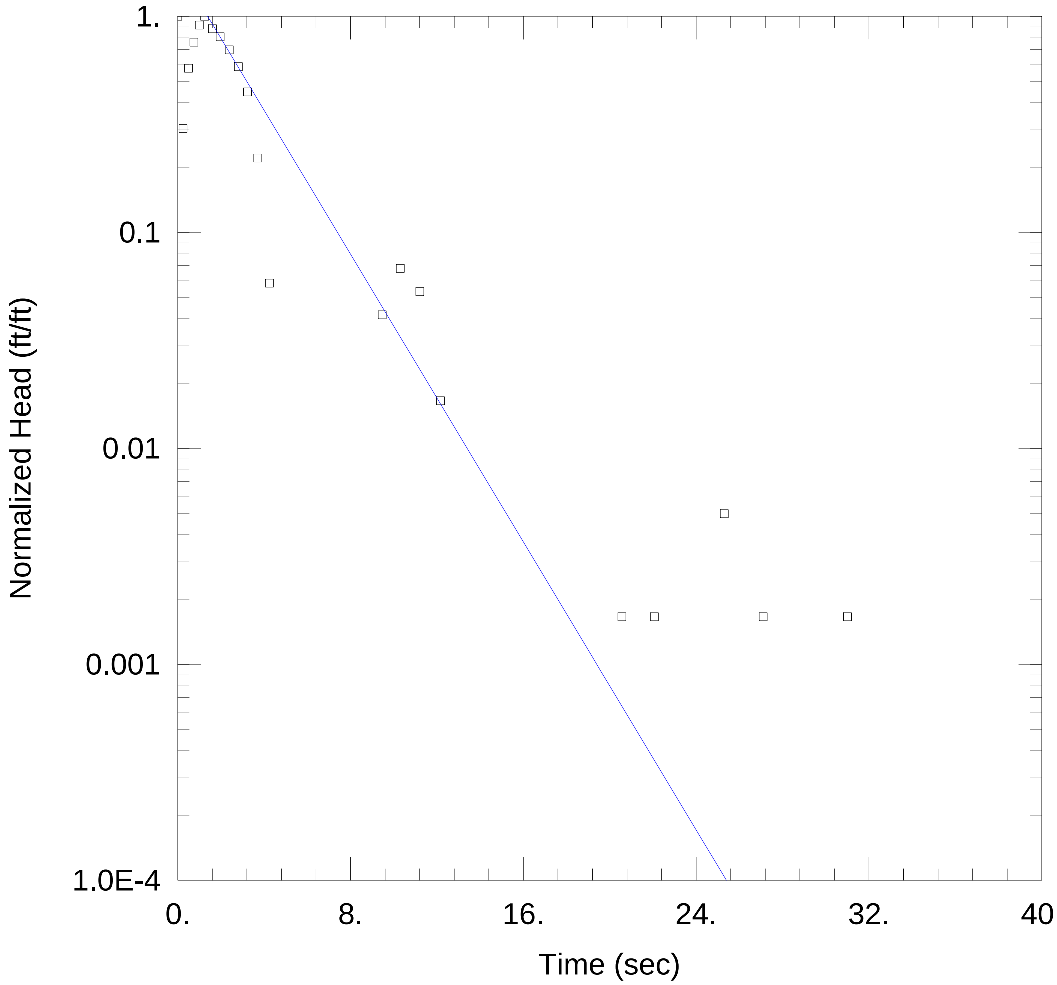
WELL DATA (MW-22B)

Initial Displacement: 0.603 ft Static Water Column Height: 36.74 ft
Total Well Penetration Depth: 44. ft Screen Length: 20. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.02622 cm/sec y0 = 1.026 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bRise1.aqt
Date: 07/09/24 Time: 14:57:15

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 36.74 ft
Anisotropy Ratio (Kz/Kr): 1.

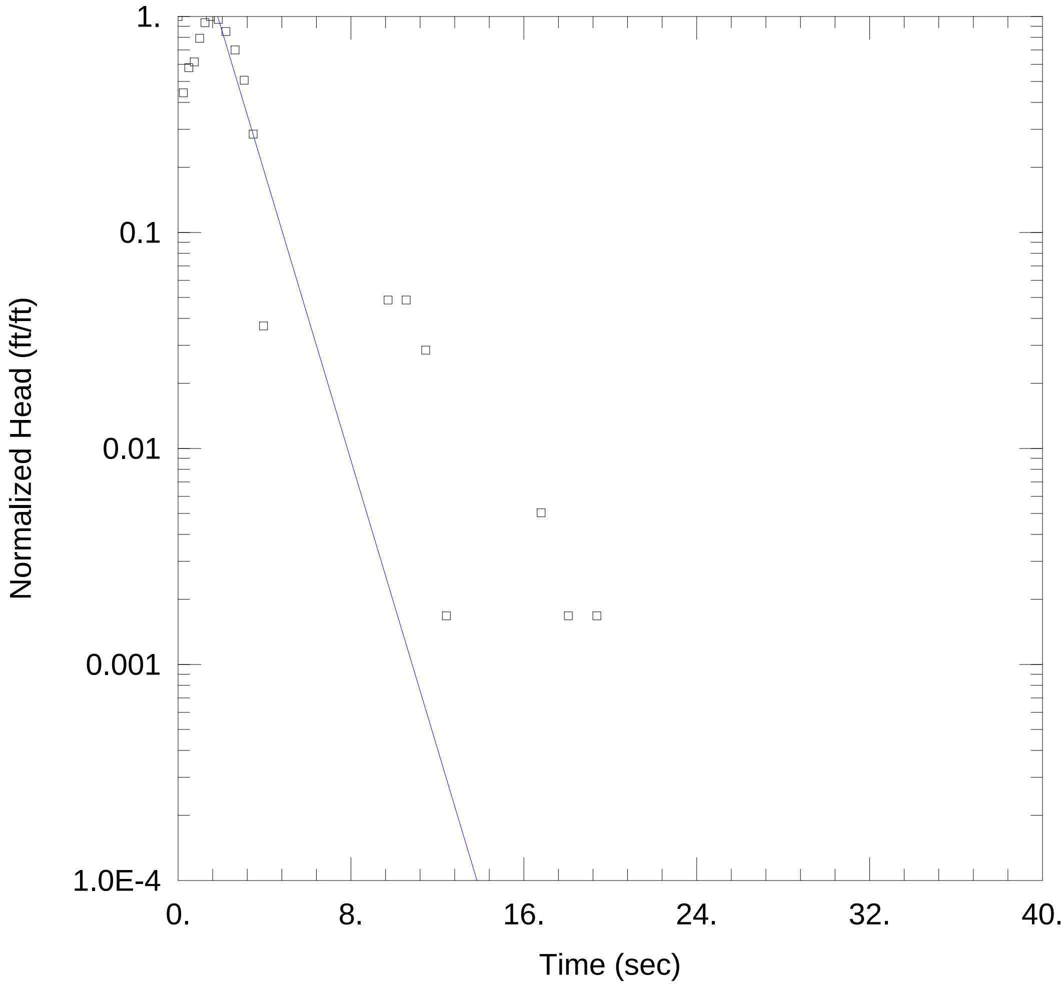
WELL DATA (MW-22B)

Initial Displacement: 0.603 ft
Static Water Column Height: 36.74 ft
Total Well Penetration Depth: 44. ft
Screen Length: 20. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.03361 cm/sec
y0 = 1.024 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bRise2.aqt
Date: 07/09/24 Time: 15:02:00

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

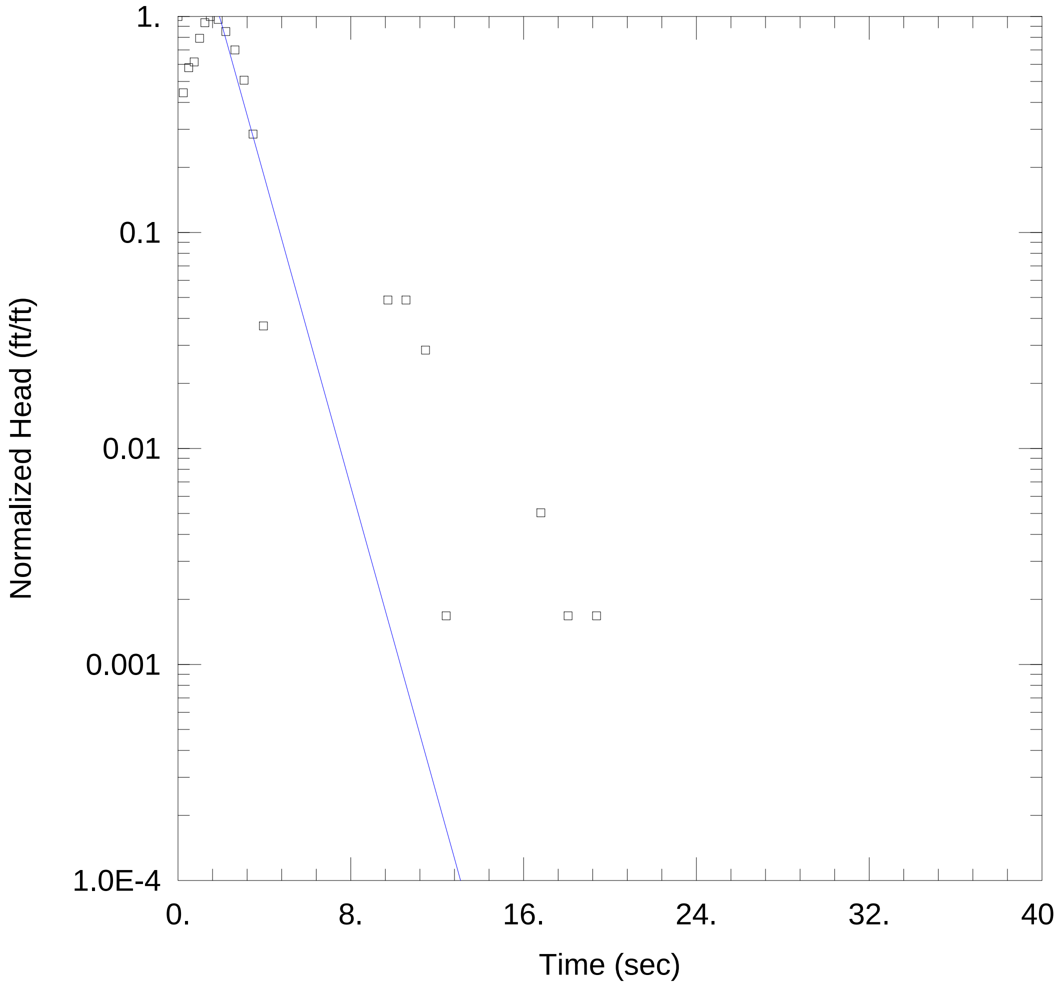
Saturated Thickness: 36.75 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-22B)

Initial Displacement: 0.596 ft
Static Water Column Height: 36.75 ft
Total Well Penetration Depth: 44. ft
Screen Length: 20. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.05151 cm/sec
y0 = 2.434 ft



WELL TEST ANALYSIS

Data Set: C:\Users\dwilt\Desktop\Dzus Slug\mw22bRise2.aqt
Date: 07/09/24 Time: 15:00:55

PROJECT INFORMATION

Company: EA
Client: NYDEC
Project: 16025-15-00-CP
Location: Former Dzus Fasterner Company
Test Well: MW-13A
Test Date: 07/12/2023

AQUIFER DATA

Saturated Thickness: 36.75 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-22B)

Initial Displacement: 0.596 ft
Static Water Column Height: 36.75 ft
Total Well Penetration Depth: 44. ft
Screen Length: 20. ft
Casing Radius: 0.167 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.07235 cm/sec
y0 = 2.914 ft

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Appendix C

Geochemical Evaluation
Pourbaix Diagrams

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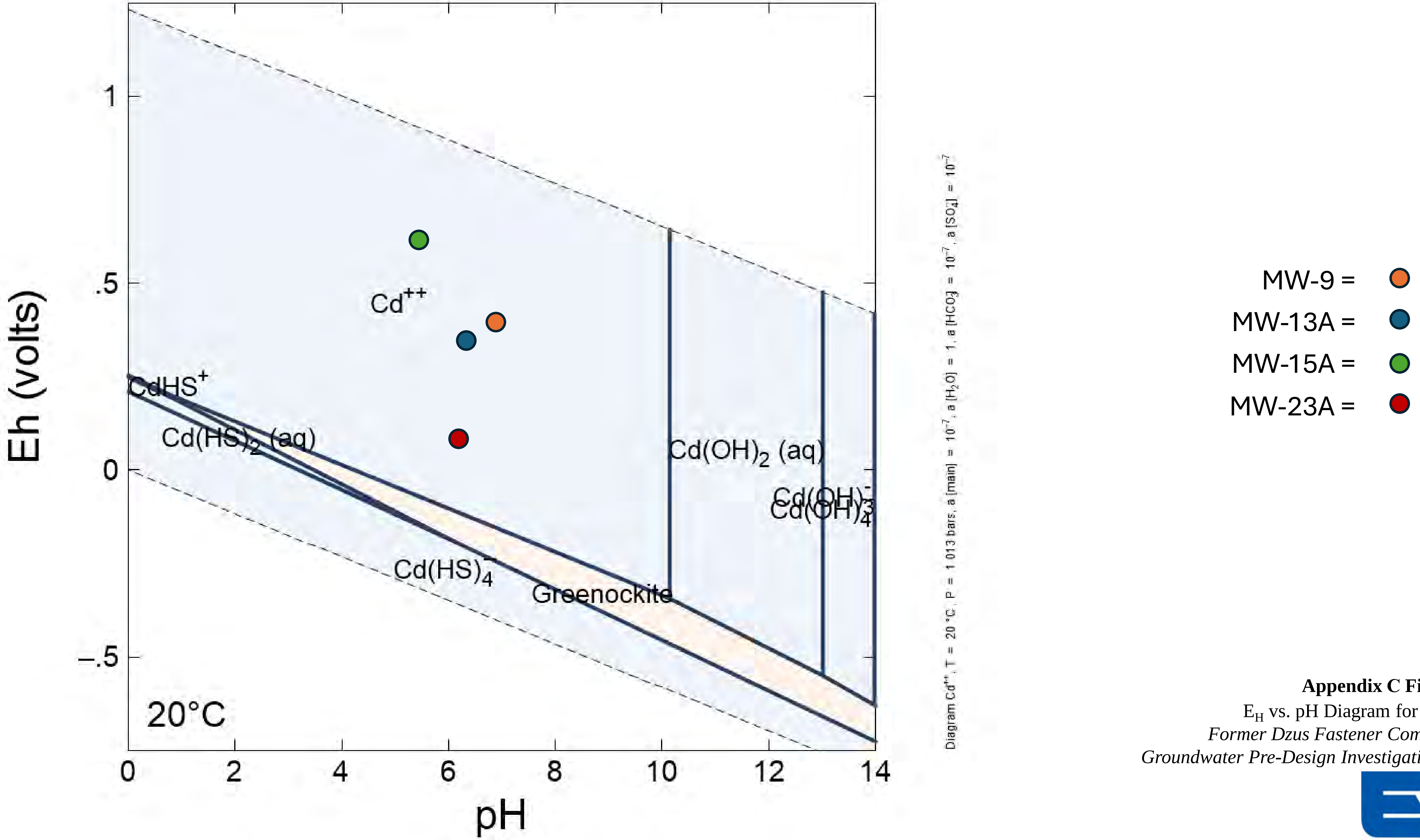
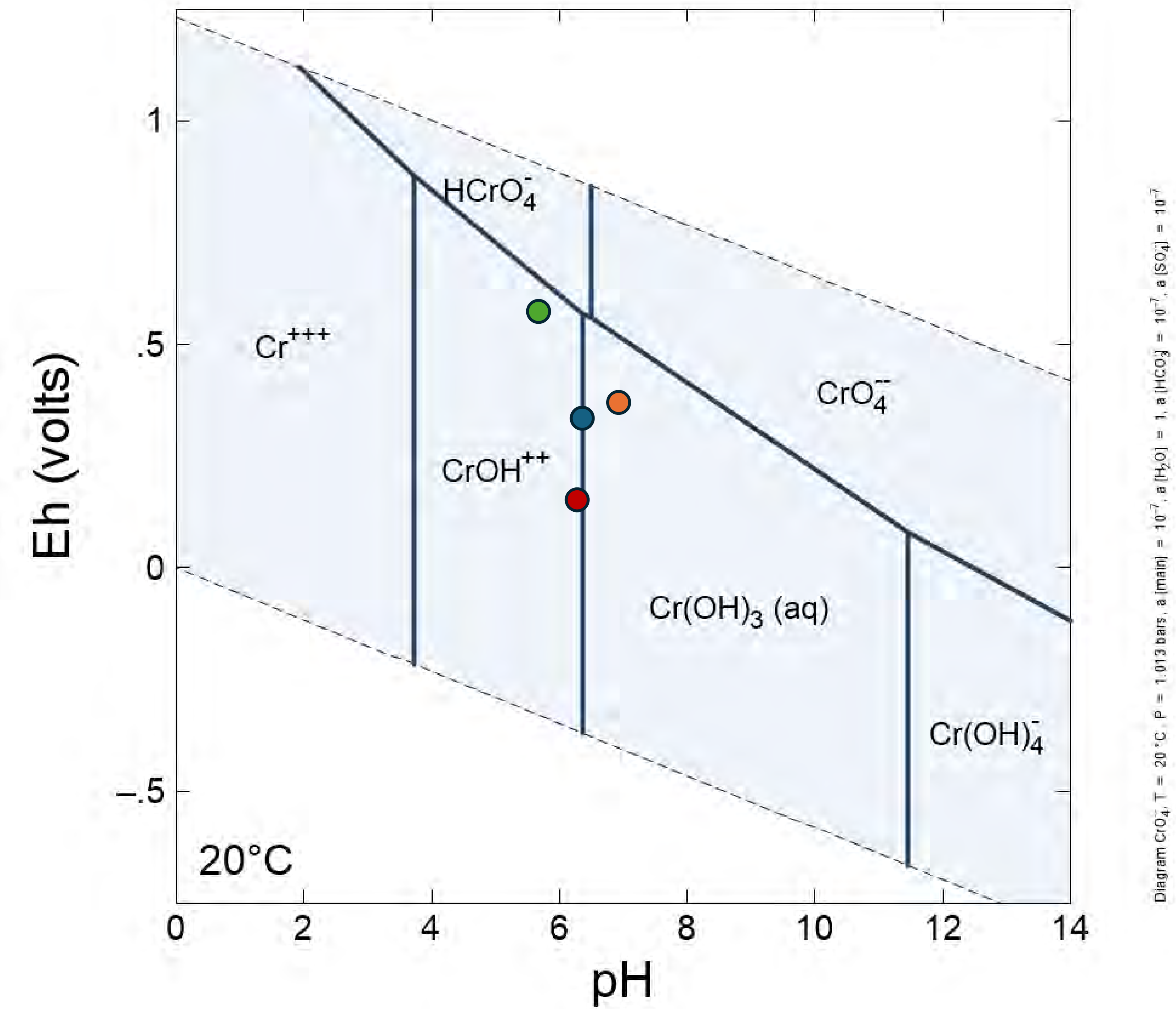


Appendix C Figure C-1.
E_H vs. pH Diagram for Cadmium
Former Dzus Fastener Company, Inc.
Groundwater Pre-Design Investigation Report



MW-9 =

MW-13A =

MW-15A =

MW-23A =

Appendix C Figure C-2.

E_H vs. pH Diagram for Chromium

Former Dzus Fastener Company, Inc.

Groundwater Pre-Design Investigation Report